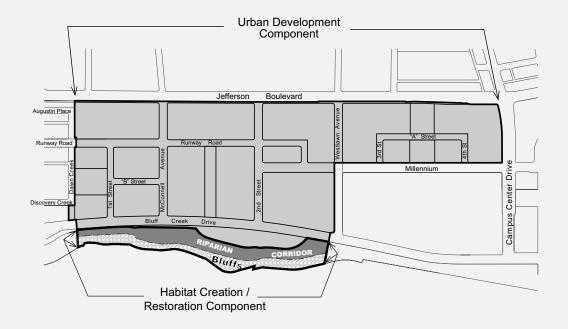
# Draft Environmental Impact Report (DEIR) VILLAGE AT PLAYA VISTA



# VOLUME IX TECHNICAL APPENDIX F

F. Water Resources (Cont.)

#### **DRAFT**

### **ENVIRONMENTAL IMPACT REPORT (EIR)**

# VILLAGE AT PLAYA VISTA TECHNICAL APPENDICES

### **VOLUME IX**

#### **APPENDIX F:**

# WATER RESOURCES TECHNICAL APPENDIX (CONTINUED)

City of Los Angeles EIR No. ENV-2002-6129-EIR

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# WATER RESOURCES TECHNICAL REPORT

The Village at Playa Vista Project Appendix B through G

August 2003

Volume III of III

Prepared for:

Playa Capital Company 12555 West Jefferson Boulevard, Suite 300 Los Angeles, California 90066

Prepared by:

**CDM** 

Psomas URS Greiner Woodward Clyde GeoSyntec Consultants Appendix B Playa Vista Water Sediment Quality Existing Data Review Report (CDM)



# Playa Vista Water and Sediment Quality Existing Data Review Report

February, 1999 Revised April, 2001 Revised July, 2003

Prepared for:

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### Section 1 Introduction

The purpose of this technical report is to provide a concise summary and assessment of the historical water and sediment/soil quality sampling results at Playa Vista.

#### 1.1 Playa Vista Project Site

The Playa Vista property is one of the few large unimproved parcels available for development within the coastal plain of Los Angeles. Located in the western part of Los Angeles County, it is bounded by Marina del Rey to the north, Culver City to the east, Playa del Rey and Westchester Bluffs to the south, and Vista del Mar and Playa del Rey to the west (Figure 1-1). The total tributary area of the adjacent Playa Vista First Phase Project and the Proposed Project, which includes the upstream areas that drain to the property, encompasses approximately 1,056 acres. The drainage area studied is located south of the Ballona Channel and encompasses approximately 1,555 acres. Of this, approximately 614 acres are upstream of the adjacent Playa Vista First Phase Project (not including the Freshwater Marsh) and Proposed Project sites; approximately 442 acres are associated with the adjacent Playa Vista First Phase Project and Proposed Project; and, approximately 499 acres (including the Freshwater Marsh) are downstream of the adjacent Playa Vista First Phase Project and the Proposed Project sites. The general drainage pattern in areas south of Ballona Channel is south-to-north, and east-to-west. The majority of runoff is discharged to Ballona Channel through the Freshwater Marsh outlet constructed as part of the adjacent Playa Vista First Phase Project and the Ballona Wetlands and existing flap-gated culverts within the wetlands, located approximately 1.25 miles west of the Proposed Project. Figure 1-2 shows the major drainage areas of the site.

In general, no natural dry-weather surface water sources, such as streams, lakes or springs, directly contribute to the surface water system in the Playa Vista project area. Surface water typically enters the site via direct precipitation, precipitation/runoff from adjacent areas, and point source discharges. The only continuous point source discharge within the adjacent Playa Vista First Phase Project and the Proposed Project was from the groundwater remediation treatment facility (GWTF) operating at the former Howard Hughes Plant Site, in the eastern portion of the adjacent Playa Vista First Phase Project and discharged treated water (under a RWQCB NPDES Permit) to the existing Centinela Creek. The GWTF was temporarily decommissioned with RWQCB approval during June and July 2000 due to grading and construction of the adjacent Playa Vista First Phase Project. Since September 2000, a new and more efficient groundwater treatment system, designed to treat a wider range of contaminants for remediation-related activities and for construction dewatering for construction of the adjacent Playa Vista First Phase Project. This facility is located on the north side of Building 2 within the adjacent Playa Vista First Phase Project, east of the Proposed Project site, and operates under NPDES Permit #CAG914001. Currently, one other temporary portable GWTF serves the adjacent Playa Vista First Phase Project. The facility is located within the western portion of the adjacent Playa Vista



First Phase Project site, east of Lincoln Boulevard, and south of Jefferson Boulevard, near Runway Road. This facility is presently in operation for treatment of construction dewatering and operates under NPDES Permit #CAG994002. As construction of the adjacent Playa Vista First Phase Project progresses, additional treatment facilities will be added as deemed necessary, and with the approval of the RWQCB, for specific construction dewatering and remediation efforts. A groundwater treatment program for the adjacent Playa Vista First Phase Project and the Proposed Project will be implemented, as necessary, in accordance with RWQCB requirements in conjunction with ongoing implementation of CAO No. 98-125. As an alternative to treatment on-site and discharge of construction dewatering under an existing NPDES permit, an Industrial Waste Discharge Permit (W-502105), has been obtained from the City of Los Angeles, Bureau of Sanitation, which allows construction dewatering water to be discharged to the sanitary sewer. The existing extraction wells will be abandoned or relocated in accordance with RWQCB requirements. The discharge of treated groundwater is one of the potential water sources for the Riparian Corridor and Freshwater Marsh.

Precipitation/runoff source discharges in the Playa Vista area consist of dry weather and stormwater runoff. A brief description of the existing (prior to development of the adjacent Playa Vista First Phase Project) drainage systems in each of the areas is discussed below.

#### 1.1.1 Ballona Wetlands

As shown in Figure 1-2, the Ballona Wetlands is bounded by Ballona Channel to the north, Vista del Mar Street to the west, Playa del Rey Bluffs to the south, and Lincoln Boulevard and Freshwater Marsh to the east. The current land uses of this area include open space (primarily degraded saltwater wetlands areas) and roadways.

A significant portion of the project drainage areas south of Ballona Channel flows through the Ballona Wetlands from various man-made storm drains and through two earthen drainage channels, which discharge into Ballona Channel through flap gates and ultimately Santa Monica Bay.

Three of these drains, Centinela Creek, Jefferson Boulevard Storm Drain, and the Lincoln Boulevard Storm Drain, pass through the adjacent Playa Vista First Phase Project and the Proposed Project sites and are described in Section 1.1.3. Approximately 315 acres of off-site land surrounding the Ballona Wetlands also discharge stormwater into the North, South, and East portions of the Ballona Wetlands through small drains and natural channels.

# 1.1.2 Playa Vista First Phase Project and Proposed Project Sites

The adjacent Playa Vista First Phase Project and Proposed Project are bounded by Jefferson Boulevard to the north, Lincoln Boulevard to the west, and the Westchester Bluffs to the south. Prior to the development of the adjacent Playa Vista First Phase



Project and Proposed Project, the three major drain systems in this area are Jefferson Drain, Lincoln Drain, and the Centinela Creek.

- Centinela Creek collects stormwater from off-site land to the south and east of the adjacent Playa Vista First Phase Project and Proposed Project and the southern portion of Project sites and discharges into the southeast end of the Ballona Wetlands.
- The Jefferson Boulevard storm drain collects stormwater from off-site land north of Jefferson Boulevard and Playa Vista areas including the north portion of the adjacent Playa Vista First Phase Project and the northeast portion of the Ballona Wetlands and discharges to the southeast end of the Ballona Wetlands.
- The Lincoln Boulevard storm drain collects stormwater from off-site land of the Westchester Bluffs area south of the adjacent Playa Vista First Phase Project and Proposed Project and discharges into the southeast end of the Ballona Wetlands.

A new drain, the Central Storm Drain is currently being constructed as part of the adjacent Playa Vista First Phase Project. With an upstream terminus at the intersection of Artisans Way and Waterfront Drive in the eastern portion of the adjacent Playa Vista First Phase Project, the Central Storm Drain will drain east to west, extending along Waterfront Drive, Millennium Street, Runway Road, Pacific Promenade, and Playa Vista Drive and will discharge into the Freshwater Marsh. The entire tributary area of the Central Storm Drain is within the boundaries of the adjacent Playa Vista First Phase Project and the Proposed Project development.

#### 1.2 Local Receiving Waters

Receiving waters in the vicinity of the existing Playa Vista site include the Freshwater Wetlands System (including the Riparian Corridor and the Freshwater Marsh), Ballona Wetlands, Ballona Channel, and Santa Monica Bay. A brief description of each of the receiving waters follows. More detailed information on the water quality of these receiving waters can be found by referring to the documents referenced herein.

#### 1.2.1 Freshwater Wetlands System

The Freshwater Wetlands System is comprised of the Riparian Corridor and the Freshwater Marsh. The Freshwater Marsh and the east and west portions of the Riparian Corridor were approved as part of the adjacent Playa Vista First Phase Project and are currently under construction. Only the southern portion of the Freshwater Marsh currently remains to be constructed (approximately 8 acres). Completion of the Freshwater Marsh, as approved for the adjacent Playa Vista First Phase Project, is expected in 2004.

The Riparian Corridor was planned as a relocated and greatly enhanced replacement of the Centinela Ditch. The approximately 25-acre Riparian Corridor will drain east to west and collect water from the south part of the adjacent Playa Vista First Phase Project and the Proposed Project sites and from existing developments on the



Westchester Bluffs east of Lincoln Boulevard. It is planned to be a wide, open channel in a naturalized setting between the toe of the Westchester Bluffs and proposed Bluff Creek Drive.

The Freshwater Marsh is bounded by Jefferson Boulevard to the north, Ballona Wetlands to the west and south, and Lincoln Boulevard to the east. The Freshwater Marsh is divided from the Ballona Wetlands by a berm. The Freshwater Marsh was designed and subsequently permitted by the relevant governing agencies as a comprehensive system to enable the adjacent Playa Vista First Phase Project and the Proposed Project, at buildout, to 1) control the amount of freshwater flowing to the Ballona Wetlands and Ballona Channel; 2) substantially reduce the amount of surface water pollutant loads to the Ballona Wetlands; and, 3) achieve a no net increase in pollutant loads to the Ballona Channel and Santa Monica Bay.

Prior to construction of the Freshwater Marsh, 100% of untreated runoff flows from the 1,555-acre tributary watershed drained directly into the Ballona Wetlands and then into the Ballona Channel. The Freshwater Marsh has been designed to receive stormwater and dry weather runoff from the Jefferson Boulevard Storm Drain, the Central Storm Drain, the Riparian Corridor, and the Lincoln Drain South at pretreatment catchment areas. It diverts freshwater flows from existing and new development away from the existing Ballona Wetlands salt marsh. During most runoff events, the Freshwater Marsh will discharge into Ballona Channel directly through flap-gated culverts; however, an overflow spillway is provided into the Ballona Wetlands to divert major storm flows (over 1-year storm levels). Under normal conditions, storm flows greater than a 1-year storm will flow over the overflow spillway into the existing Ballona Wetlands. The storm overflow drains through the East, South, and North Wetland portions of the Ballona Wetlands and outlets into Ballona Channel.

#### 1.2.2 Ballona Wetlands

The Ballona Wetlands are located adjacent to Ballona Channel. A series of flap gates located near the western end of the saltwater wetlands allows flow from the Ballona Wetlands to enter Ballona Channel and ultimately Santa Monica Bay while preventing most Ballona Channel flows from entering the Ballona Wetlands.

The existing flap gates in Ballona Channel are located within the tidal prism. A tidal prism is created at the intersection of freshwater and saltwater near the mouth of most estuaries. Since the Ballona Channel empties into the Santa Monica Bay, a tidal prism is created by the tidal fluctuations of Santa Monica Bay. Saltwater from the Bay advances and retreats in the Ballona Channel creating two water column sources: Santa Monica Bay and Marina del Rey saltwater; and Ballona Channel freshwater. Typically, the denser saltwater intruding from the Bay will underlie the less dense freshwater flowing down Ballona Channel, which is composed primarily of urban runoff. The freshwater/saltwater interface is referred to as a saltwater wedge. The existence of the saltwater wedge was documented in the Ballona Channel Salinity Monitoring Program Report (CDM, 1996).



The Ballona Wetlands currently function incidentally as a stormwater runoff retention basin for the on/off-site land uses described previously. Due to minimal tidal circulation within the wetlands and an overload of stormwater runoff from adjacent areas, the majority of the wetlands are now degraded. The construction of the Playa Vista Freshwater Wetlands System (the Riparian Corridor and the Freshwater Marsh) is designed to decrease the input of urban runoff to the Ballona Wetlands.

#### 1.2.3 Ballona Channel

The Ballona Channel discharges directly into Santa Monica Bay. It serves as the major outlet for a 78,000-acre drainage basin, which includes the highly urbanized West Central Los Angeles Metropolitan Area and a portion of the Santa Monica Mountains. The Proposed Project site represents less than one percent of the total watershed area of the Channel. The estimated annual flow in Ballona Channel during the 1996-1997 water year was 12.9 billion gallons. Dry weather flows in Ballona Channel typically range from 6 to 18 MGD (9 to 28 cfs), while storm flows can range from 100 to 6,390 MGD (155 to 9,890 cfs) (LACDPW, 1998).

The Ballona Channel is sampled five times a year for wet weather water quality by the Los Angeles County Department of Public Works (LACDPW).

#### 1.2.4 Santa Monica Bay

Santa Monica Bay is an open embayment with an estimated area of 266 square miles. It is bordered by Point Dume to the northwest, Palos Verdes Peninsula to the south, and the deep Santa Monica Basin to the west. Santa Monica Bay is characterized by substantial recreational, commercial, and industrial uses. Activities such as boating, swimming, fishing, power generation, runoff, and wastewater and waste discharge have drastically altered the natural environment of the Bay.

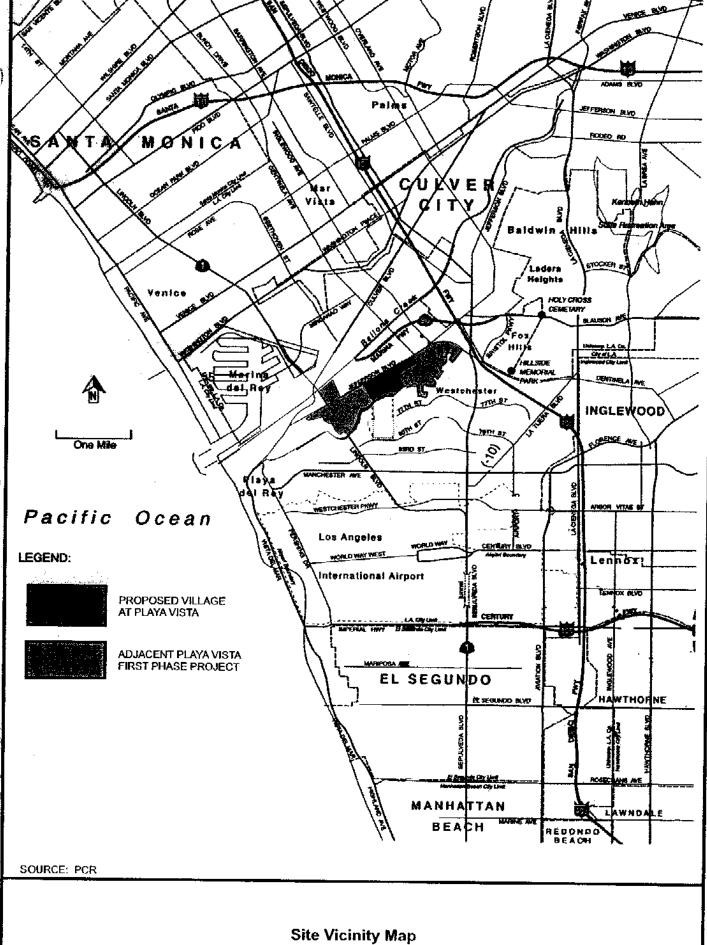
The waters of Santa Monica Bay have been assigned a Class C (impaired rating) by the Los Angeles Region Water Quality Control Board (LARWQCB). This rating is based on findings that the waters preclude, compromise, or do not support their designated use. The Santa Monica Bay's biological community is imbalanced, severely stressed, or known to contain toxicities in concentrations that are hazardous to human health. The contaminants of greatest concern in the Bay are chlorinated and polyaromatic hydrocarbons, organometalloids, viral pathogens, and to some extent, trace metals (copper and zinc). These contaminants can present risks to biota and human health (RWQCB, 1994).

Santa Monica Bay receives surface water drainage from storm drains, overland flow, and power plant and wastewater treatment plant outfalls. From the Playa Vista project area, the Bay receives direct urban runoff via the Ballona Channel and indirectly via Marina del Rey. In addition, pollutants are transported into the Santa Monica Bay due to daily tidal fluctuations over low-lying urban areas adjacent to the Bay.



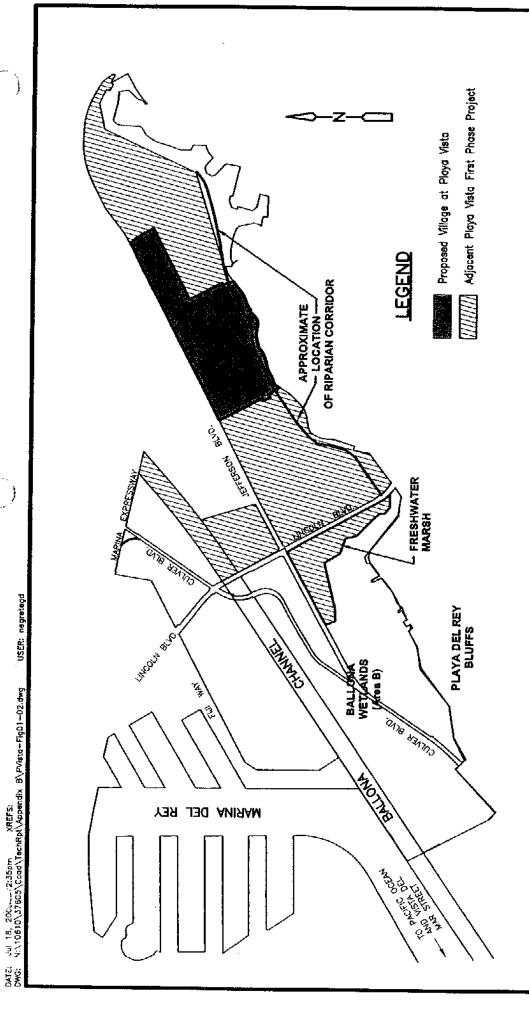
In 1993, the UCLA Department of Civil and Environmental Engineering and Woodward Clyde performed an assessment of the storm drain sources of contaminants to Santa Monica Bay. Their study, summarized in four volumes, concluded that significant pollution enters the bay from runoff originating from the residential, industrial, and commercial areas surrounding Santa Monica Bay (UCLA, et al, 1993).





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2000 Scale Approximate

1" = 2000'

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# Section 2 Water and Sediment Quality Criteria

The purpose of this section is to identify the relevant federal, state, and local environmental laws and regulations applicable to water and sediment quality at the Playa Vista site. Although no location-specific criteria for water and sediment quality exist, general standards for similar waterbodies may be applicable to the site and are discussed in the following sections.

#### 2.1 Water

As discussed in Section 1, the surface waters in and around Playa Vista consist of wetlands (saltwater and freshwater), estuaries (Ballona Channel), and bays (Santa Monica Bay). The standards reviewed that are applicable or potentially relevant to these waterbodies are the Water Quality Control Plan (1994), the California Ocean Plan (1997), and the California Toxic Rule (2000).

#### 2.1.1 Water Quality Control Plan - Los Angeles Region

The Water Quality Control Plan (1994), commonly referred to as the Basin Plan, is issued by the California Regional Water Quality Control Board (RWQCB) as the regulatory basis for preserving water quality and protecting the beneficial uses of all regional waters. The Basin Plan designates beneficial uses for surface waters and groundwater and sets numerical or narrative objectives for constituents for each water body.

Playa Vista lies within the Ballona Wetlands in the Ballona Creek Watershed (HSA 405.13). According to the Basin Plan, the beneficial uses for the Ballona Wetlands are: Water Contact Recreation (REC1); Non-contact Water Recreation (REC2); Estuarine Habitat (EST); Wildlife Habitat (WILD); Rare, Threatened or Endangered Species (RARE); Migration of Aquatic Organisms (MIGR); Spawning, Reproduction and/or early Development (SPWN); Shellfish Harvesting (SHELL); and Wetland Habitat (WET). However, no waterbody-specific water quality objectives have been identified for the Ballona Wetlands or Ballona Creek Watershed.

#### 2.1.2 California Ocean Plan

The California Ocean Plan (1990) was created by the State Water Resources Control Board (SWRCB) to establish water quality objectives for California's ocean waters and to provide a basis for regulation of wastes discharged to coastal waters by point and non-point source discharges. A 1997 amendment to the California Ocean Plan (COP) was approved. A second amendment called the 2001 COP was approved by the SWRCB in November 2000 and is currently under review by the EPA.

Both the SWRCB and the RWQCB are responsible for implementing and interpreting the California Ocean Plan. The COP describes beneficial uses and water quality objectives for ocean receiving waters - not for bays and estuaries such as those found adjacent to and directly downstream of Playa Vista. When a permit to discharge to the



ocean is written, the water quality objectives of the receiving waters become the basis for establishing effluent criteria for the discharge.

Therefore, although the COP objectives do not apply directly to the waters on or discharged from Playa Vista, they do provide a general guideline of the desired water quality of the surface water in Santa Monica Bay.

#### 2.1.3 California Toxic Rule

The California Toxic Rule (CTR) was promulgated by EPA in March of 2000. The CTR establishes acute and chronic surface water criteria for protection of freshwater and saltwater aquatic life, as well as criteria for human health consumption of water and organisms for all inland surface waters and enclosed bays and estuaries. The CTR criteria apply to waters of the State including bays and estuaries and waters of the State defined as inland (i.e. all surface waters of the State not defined as a bay, estuary or ocean) without a municipal use designation. CTR chronic criteria were compared to the dry weather sampling results and CTR acute criteria were compared to the wet weather results. The acute CTR criteria were used for comparison to wet-weather due to the infrequent nature of storm events in southern California and the fact that most storm events last for less than 4 days, which is the averaging period for which chronic CTR criteria apply.

#### 2.2 Sediment

In the absence of any federal or state established sediment criteria, a brief literature search was executed to determine sediment guidance values that may be applicable and appropriate for the Playa Vista site. Four sources were consulted, including three technical papers and a New York State technical guidance.

#### **Technical Guidance for Screening Contaminated Sediments**

The Technical Guidance for Screening Contaminated Sediments (1993) was issued by the New York State Department of Environmental Conservation (NYSDEC) to establish sediment criteria for identifying contaminated sediments. The criteria designated by this document do not serve as cleanup goals but are to be used as screening criteria for the purpose of identifying areas of sediment contamination and assessing potential adverse impacts. The NYSDEC criteria require that the standards for organic compounds and pesticides be normalized to the organic carbon content of the site sediment. The NYSDEC metal standards for sediments defer to the guidance values recommended by Long and Morgan (1990), Long, et al. (1995), and Persaud, et al. (1992).

#### Ontario Ministry of the Environment (Persaud, et al.)

The Ontario Ministry of the Environment uses a screening level concentration approach adopted from Persaud, et al (1992). In this technical paper, field data from the Great Lakes was used to directly measure freshwater sediment-borne metals concentrations responsible for adverse ecological effects to benthic organisms. However, these guidance values do not account for other toxicity-mitigating factors



that may affect the bioavailability of metals within the sediments such as sediment organic content or particle size distribution. In addition, these guidance values focus on the toxicity of metals because total metals concentration can be related directly to an observed, measurable ecological effect. Organic compounds are not covered by this set of guidance values.

#### Long and Morgan (1990)

The Long and Morgan (1990) technical paper provides guidance values for sediments according to the level of chemical effect (effects range low (ER-L) and effects range medium (ER-M)) on benthic organisms observed in field studies in both salt and freshwater. Like Persaud, et al. (1992), this study used field data to calibrate sediment-borne concentrations with adverse ecological effects to benthic animals. Long and Morgan (1990) provides guidance values for both select organic compounds and trace metals.

#### Long, et al. (1995)

The Long, et al. (1995) technical paper further refined the guidance values established by the Long and Morgan (1990) paper. In particular, the marine and estuarine data for the study was enhanced to create new guidance values. The NYSDEC has adopted the Long, et al. (1995) data for saltwater environments and retained the Long and Morgan (1990) guidance values combined with the Persaud et al. (1992) for freshwater environments.

#### National Oceanic & Atmospheric Administration Screening Quick Reference Tables

In 1999, the Coastal Protection and Restoration Division of the National Oceanic & Atmospheric Administration (NOAA) developed a set of reference tables to use for screening concentrations of inorganic and organic contaminants in various environmental media, including sediment. These tables are commonly referred to as the Screening Quick Reference Tables (SQuiRTs). The SQuiRTs include multiple screening values for sediment to reflect the range of possible adverse biological effects. Separate sediment screening values are provided for saltwater and freshwater.

After review of the technical guidance and papers, the NOAA SQuiRTs (1999) sediment guidance values appear to provide the most current sediment guidance values applicable to the saltwater environment at the Playa Vista site. Although none of these guidance values are established as California State guidance values, they are used in this report to provide a basis by which to compare the level of contamination in the sediments to possible adverse effect levels in benthic organisms.



# Section 3 Water Quality Concerns

Surface water and sediment quality monitoring at Playa Vista, Ballona Channel, and Santa Monica Bay is an ongoing process. A number of organizations conduct periodic monitoring of the waterbodies. Over the years, certain water quality parameters have become the prime constituents of concern and key indicators of the water quality in these waterbodies. The historical assessment in Section 4 will focus on these parameters, discussed below.

#### 3.1 Indicator Bacteria

Since the waterbodies are frequented by swimmers, surfers, and anglers, pathogens that may affect humans through direct contact or consumption of contaminated seafood are a concern. The most common indicator parameters used to gauge the suitability of the water for these recreational uses are fecal coliform and total coliform bacteria. Coliform counts in these waterbodies often increase following heavy rainfall events due to increases in soil and animal waste leading to beach closures. Sewage breaks or overflows may occasionally contaminate the storm drains and receiving waters, although these events occur infrequently.

The California Ocean Plan water quality objectives for water contact recreational uses is 200 MPN/100 mL for fecal coliform and 1,000 MPN/100 mL for total coliform, and for non-water contact recreational uses is 2,000 MPN/100 mL for fecal coliform. The RWQCB has prepared a Dry Weather Total Maximum Daily Load (TMDL) for bacteria at Santa Monica Bay Beaches, which is currently being reviewed by EPA and SWRCB. A source analysis of the elevated densities of bacterial indicators showed that at many of the Santa Monica Bay beaches dry weather urban runoff conveyed by storm drains and creeks (which includes Ballona Creek and Estuary) are the cause of water quality impairment in terms of the water contact recreation (REC-1) beneficial use. A coliform TMDL for the Ballona Creek Estuary, which may also apply to dry-weather flows, is planned for completion during the 2003/2004 fiscal year.

#### 3.2 Nutrients

Nutrients, such as nitrogen and phosphorus, are required for some biota to survive in water systems. However, a delicate balance exists between the nutrients and the biotic organisms. An excess of nutrients can be as harmful to biota as a lack of nutrients. An excess of nutrients may cause algal blooms that deplete the dissolved oxygen content and foul the water; however, this problem has not been reported for Santa Monica Bay.

Fertilizers, animal waste, and municipal discharges can increase nitrogen concentrations in surface waters. Nitrogen forms include nitrate, nitrite (rare), organic nitrogen, and ammonia as nitrogen (ammonia-N). Total Kjedchl nitrogen (TKN) is an analytical technique that measures total organic nitrogen plus ammonia-N. Ammonia-N, which is highly toxic to aquatic life, can be nitrified by natural bacteria



thereby depleting dissolved oxygen concentrations, or can combine with chloride to form chloramines, which are also toxic to aquatic life. Ammonia-N concentrations in the open ocean typically range from 0.002 to 0.009 mg/L. Phosphorus concentrations range from 0.02 to 0.03 mg/L in the open ocean.

The EPA has established nutrient water quality guidelines for various waterbodies based on ambient water quality conditions within defined ecoregions. The Proposed Project is located within Ecoregion 6 of Aggregate Ecoregion III, which is most prominently distinguished by its Mediterranean climate and associated vegetation. The guidelines are not enforceable laws or regulations; they are federal guidelines for establishing State water quality criteria for nutrients.

#### 3.3 Dissolved Oxygen and Oxygen-Consuming Materials

Dissolved oxygen and oxygen-consuming materials (indicated by biochemical oxygen demand (BOD) and chemical oxygen demand (COD)) are important indicators of whether the surface water is suitable for aquatic life. Low or zero (anaerobic) dissolved oxygen conditions in extreme cases can kill aquatic life. Generally, a dissolved oxygen concentration of 5 mg/L or greater is acceptable for biota (Soule and Oguri, 1990).

BOD and COD are indicative of conditions that would deplete oxygen either biologically (BOD) or through chemical oxidation (COD). Although numerical standards for these constituents in freshwater and saltwater marshes are not available, BOD and COD can be used as general indicators of the dissolved oxygen levels in the waterbodies. Elevated BOD and COD values usually correlate with a drop in dissolved oxygen concentrations.

#### 3.4 Heavy Metals

Heavy metals (such as arsenic, cadmium, copper, lead, mercury, nickel, selenium, silver, and zinc) are a concern in the subject waterbodies due to their toxicity to biota and to humans. These metals are commonly found in urban runoff and elevated concentrations of metals are typically found in urban storm drains following heavy rainfall events. Standards for heavy metals in water are provided by the CTR.

Heavy metals concentrations are also linked to the sediment grain size. In low energy environments like a marina, heavy metals adsorb to fine sediment particles and settle out. In high energy environments like the ocean, these particles with the adsorbed metals remain suspended in the water. Standards for heavy metals in sediments are provided by the NOAA SQuiRTs (1999).



#### 3.5 Pesticides and PCBs

Pesticides and PCBs are contaminants that can be found in runoff from agricultural land uses and in municipal wastewater discharges (Young and Heeson, 1975-WCC, 1990). Although no farmLand currently exists within the project area, the areas surrounding the subject waterbodies have been used for farming in the past. Pesticides and PCBs are persistent in soil and sediments and do not degrade readily. They can also accumulate in aquatic organisms and sediments and pose a hazard to marine animals and plants. In the past, PCBs and DDT have been reported in benthic organism and demersal fish in the Santa Monica Bay near Palos Verdes. Therefore, possible contamination of these compounds in the subject waterbodies is a water quality concern. Standards for pesticides and PCBs in water and sediment are provided by the CTR and NOAA SQuiRTs (1999).

#### 3.6 Tributyltin

Tributyltin (TBT) is found in a biocide often used in marine vessel antifouling paints, fungicides, wood preservatives, transformer oils, and PCBs. Its presence in the subject waterbodies is likely due to the boating activity in Marina del Rey. Although TBT has been restricted to large vessels by the California legislature, TBT is still available commercially. TBT can be bioaccumulated and bioconcentrated in several marine organisms including oysters, snails, mussels, and salmon. TBT toxicity can lead to reduced growth, thinness of meat and shells in shellfish, and reduced reproduction (SWRCB, 1988) and TBT is toxic to biota at concentrations in the parts per trillion range (ppt). TBT is not harmful to humans until it reaches the parts per million (ppm) range. The COP objectives for TBT in saltwater is 1.4 ppt. Sources did not indicate a TBT criteria for sediment.

### 3.7 Oil and Grease and Petroleum Hydrocarbons

Oil and grease are not water soluble and typically result in a film on top of surface waters. Although these compounds are mostly a nuisance contaminant to humans at low concentrations, oil and grease can coat birds and aquatic organisms leading to their death. Urban runoff commonly contains low concentrations of petroleum products resulting from runoff from roadways and paved surfaces. Oil and grease can also be released into the subject waterbodies by boats in the marina and Santa Monica Bay. No numerical standards were found for oil and grease; however, its presence in waterbodies is considered to be detrimental to biota.

#### 3.8 Trash

Section 303(d) of the CWA requires identification and listing of water-quality limited or "impaired" waterbodies where water quality standards and/or receiving water beneficial uses are not met. Once a waterbody is listed as "impaired," total maximum daily loads (TMDLs) must be established for the pollutants or flows causing the impairment (33 U.S.C. §1313(d)(c)). Both the SWRCB and the EPA have approved a



Trash TMDL for the Ballona Creek Watershed, where the Proposed Project is located.¹ Although Ballona Creek is also listed as being impaired for other pollutants, TMDLs have not yet been established for these pollutants.

A "pollution budget" or pollutant load allocation must be established for point and non-point sources that contribute to the water quality impairment. Once a pollution budget has been set, which for the Ballona Creek Watershed is zero trash discharged by the twelfth year, load allocations for point sources are implemented through NPDES permits for individual dischargers. It is anticipated that implementation of, and compliance with, the TMDL requirements will be administered through the County's and City's municipal stormwater NPDES Permit program.

Although trash is a recognized water quality concern for the waters in the vicinity of Playa Vista, it is not a regularly measured constituent.

It is anticipated that implementation of, and compliance with, the Trash TMDL requirements will be administered through the MS4 Permit programs, as well as individual NPDES permits and general industrial stormwater permits (including construction site permits administered by the RWQCB).



The Trash TMDL for the Ballona Creek Watershed is currently under legal challenge by both the City and County of Los Angeles. Two lawsuits were filled in the Los Angeles County Superior Court in 2002, one on behalf of the City of Los Angeles, Bureau of Sanitation (Case No. BC 270452 - filed March 21, 2002), and one on behalf of the County of Los Angeles and the Los Angeles County Flood Control District (Case No. BC 279597 - filed August 13, 2002). Both lawsuits have been transferred out of Los Angeles County Superior Court. The City of Los Angeles, Bureau of Sanitation lawsuit has been transferred to Ventura County Superior Court and the County of Los Angeles and the Los Angeles County Flood Control District lawsuit is now in San Diego County Superior Court.

# Section 4 Sampling Results

Monitoring data from several sources were compiled for this review and assessment of surface water and sediment quality in the vicinity of the Playa Vista site. This section summarizes the data and provides a brief assessment of the constituents of particular interest.

#### 4.1 Data Sources

The data included in this report was obtained from the following sources:

- Dry Weather Sampling Results Report (WCC, 1990)
- Final Technical Appendix to the Playa Vista Master Plan EIR (WCC, 1990)
- Comparison to the Re-establishment of Tidal Flow in the Ballona Wetlands
   Through the Ballona Channel or Through the Marina del Rey Entrance Channel (Chambers Group Environmental, 1993)
- Results of Chemical and Physical Testing of Sediments from Marina del Rey South Entrance (ABT, 1995)
- Ballona Creek Salinity Monitoring and Water Quality Sampling Results (CDM, 1996)
- Ballona Creek Water and Sediment Quality Monitoring Report 1995/1996 Wet Weather Season (CDM, 1996)
- Playa Vista Area A and Area B Wetlands Surface Water and Sediment Monitoring Report- Draft (CDM, 1998)
- Ballona Wetlands Surface Water and Sediment Sampling (GeoSyntec, April 2002)
- Ballona Wetlands and Freshwater Marsh Surface Water Sampling (CDM, April 2002)
- Ballona Wetlands and Freshwater Marsh Surface Water Sampling (CDM, June 2002)
- Ballona Wetlands and Freshwater Marsh Surface Water Sampling (CDM, April 2003)

Sampling techniques, sampling conditions, sampling locations, and media sampled varied between reports. In order to insure that data was being grouped and averaged without compromising the integrity of the data or its source, data was divided into several different categories.



First, data were separated by media type and sampling condition into the following categories: freshwater-dry weather, freshwater-wet weather, saltwater-wet weather, saltwater-dry weather, sediment-drainage channels, sediment-freshwater, and sediment-saltwater. Due to the possible differences in sampling techniques, data obtained from each source was kept separate. In addition, since sampling locations were not the same for each sampling event, the sampling locations were grouped in major areas: Ballona Wetlands, Freshwater Marsh, Ballona Channel, and Santa Monica Bay. Figure 4-1 shows the sampling locations. An overview of the data collected is presented in Table 4-1. The raw data obtained from the separate reports are included in Appendix A.

Summary tables of the raw data are presented as Tables 4-2 through 4-18. Maximum, minimum, and mean concentrations of each data set are shown along with the CTR criteria, the COP objectives, the COP's Conservative Estimate for Chronic Toxicity, NOAA SQuiRTs (1999) sediment guidance values, as applicable. Only constituents that were detected above detection limits within each waterbody category are shown.

Due to the large number of tables presented to accompany the text, all tables have been placed together at the end of the section.

#### 4.2 Sampling Results Prior to 1990

In 1990, WCC conducted sampling and prepared an evaluation of the Playa Vista sampling data collected to date, which became a Final Technical Appendix (FTA) to the Playa Vista Master Plan EIR. These results are summarized in Tables 4-2 through 4-7 and described below.

#### 4.2.1 Dry Weather

#### **Ballona Channel**

Results for dry weather water quality samples from the Ballona Channel are summarized in Table 4-2. According to the FTA, sampling and prepared sampling results indicated the following constituent trends in the Ballona Channel saltwater samples.

- Peak levels of ammonia-N have increased from 0.029 to 0.247 mg/L in 1986 to 0.003 to 1.04 mg/L in 1988; however, ammonia-N was not detected in the Ballona Channel during the 1990 sampling. Phosphorus concentrations in the Ballona Channel during the 1990 sampling ranged from 0.03 to 0.16 mg/L.
- Of the heavy metals, only copper exceeded the CTR criteria. Arsenic, chromium, silver, and zinc were all below CTR criteria. Other metals were not detected above laboratory reporting limits.
- No VOCs, SVOCs, pesticides, or PCBs were detected above laboratory reporting limits during the 1990 sampling.



#### **Ballona** Wetlands

Results for dry weather water quality samples from the Ballona Wetlands are summarized in Table 4-3. Only one water sample from the Ballona Wetlands was collected by WCC in the 1990 sampling.

- Ammonia-N and total phosphorus concentrations in the Ballona Wetlands during the 1990 sampling were 2.2 mg/L and 1.6 mg/L, respectively. These concentrations are higher than those detected in the Ballona Channel.
- Of the heavy metals, copper and nickel exceeded the CTR criteria. Cadmium, chromium, and zinc were all below CTR criteria. Other metals were not detected above laboratory reporting limits.
- Acetone was the only VOC detected in the Ballona Wetlands during this sampling event.
- No SVOCs, pesticides, or PCBs were detected above laboratory reporting limits during the 1990 sampling.

#### Centinela Ditch

Results for dry weather water quality samples from the Centinela Ditch are summarized in Table 4-4. Only one water sample from Centinela Ditch was collected by WCC in the 1990 sampling.

- Ammonia-N was not detected. Total phosphorus concentration was 0.76 mg/L.
- Of the heavy metals, copper and lead exceeded the CTR criteria. Arsenic, cadmium, chromium, nickel, and zinc were all below CTR criteria. Other metals were not detected above laboratory reporting limits.
- No VOCs were detected above laboratory reporting limits during the 1990 sampling.

#### 4.2.2 Wet Weather

WCC did not sample saltwater in wet weather during 1990.

#### 4.2.3 Sediment

#### **Ballona Channel**

Results for sediment quality samples from the Ballona Channel are summarized in Table 4-5. Two sediment samples from the Ballona Channel were collected by WCC in the 1990 sampling.

- Oil and Grease concentrations ranged from 46 to 57 mg/L.
- No VOCs, pesticides, and PCBs were detected above laboratory reporting limits. Bis(2-ethylhexyl)phthalate was the only SVOC detected.



Metal concentrations from the 1990 sampling in the Ballona Channel were within the range of previous sampling results. Arsenic and zinc were below CTR criteria. Other metals were not detected above laboratory reporting limits.

#### **Ballona Wetlands**

Results for sediment quality samples from the Ballona Wetlands are summarized in Table 4-6. One sediment sample from the Ballona Wetlands was collected by WCC in the 1990 sampling.

- Oil and Grease was detected at 2,100 mg/L.
- No VOCs, SVOCs, pesticides, and PCBs were detected above laboratory reporting limits.
- Only zinc exceeded CTR criteria. Arsenic, cadmium, chromium, copper, lead, nickel, and silver were below CTR criteria. Other metals were not detected above laboratory reporting limits.

#### Centinela Ditch

Results for sediment quality samples from the Centinela Ditch are summarized in Table 4-7. One sediment sample from the Centinela Ditch was collected by WCC in the 1990 sampling.

- Oil and Grease was detected at 89 mg/L.
- No VOCs, SVOCs, pesticides, and PCBs were detected above laboratory reporting limits.
- Arsenic, cadmium, chromium, copper, lead, nickel, silver, and zinc were below CTR criteria. Other metals were not detected above laboratory reporting limits.

#### 4.3 Sampling Results Since 1991

Several sampling events in the vicinity of Playa Vista have occurred since 1991. These results are summarized in Tables 4-8 through 4-18 and are described below.

#### 4.3.1 Dry Weather

#### Santa Monica Bay

Water in Santa Monica Bay was sampled during dry weather by ABCL and Chambers Group. As shown in Table 4-8, the samples were tested for metals, VOCs, pesticides and PCBs, indicator bacteria, and general parameters.

 Nutrients – One sample was analyzed for ammonia, phosphorus, and organic nitrogen. Ammonia and phosphorus were above the typical ocean range concentrations for these parameters but were not above COP objectives.



- Pesticides and PCBs Pesticides and PCBs were not detected above laboratory detection limits.
- Heavy Metals Zinc was detected at a concentration exceeding the COP conservative estimate for chronic toxicity. All other detected metals (iron, manganese, and nickel) were below surface water quality criteria or did not have criteria.
- Oil/Grease and Petroleum Hydrocarbons Oil and grease was detected during the 1992 sampling at a concentrations of 8 mg/L, well below the COP 30-day average objectives of 25 mg/L. The samples were not analyzed for TPH and TRPH.
- Dissolved Oxygen and Oxygen-Consuming Material Samples were analyzed for dissolved oxygen by ABCL in 1996 to 1997. DO concentrations averaged 7.78 mg/L, which is within the normal range for along the open coast, 6 to 8.5 mg/L. Chambers Group analyzed for IOD and COD with concentrations of 0 mg/L and 175 mg/L, respectively.
- Indicator Bacteria Fecal and total coliform were analyzed for 346 samples by ABCL in 1996 to 1997. Concentrations detected ranged from 0 to 2,400 MPN/100 mL and 0 to 16,000 MPN/100 mL, respectively. These concentrations are above recommended objectives of 200 MPN/100 mL fecal coliform and 1,000 MPN/100 mL total coliform for recreational activities.

#### **Ballona Channel**

Saltwater in the Ballona Channel was sampled during dry weather by ABCL, CDM, and Chambers Group/Soule. As shown in Table 4-9, samples were analyzed for metals, VOCs, SVOCs, pesticides and PCBs, indicator bacteria, and general parameters.

- Nutrients Samples were analyzed for ammonia, TKN, phosphorus, total inorganic nitrogen, organic nitrogen, nitrite, and nitrate. Ammonia concentrations were above the typical open ocean range of 0.002 to 0.009 mg/L. Nitrate and TKN concentrations were higher in 1996-1998 than they were in 1990. Although no criteria were found for phosphorus, phosphorus concentrations in the open ocean range from 0.02 to 0.03 mg/L. The observed average concentration was 0.17 mg/L, which is fairly consistent with existing data reported by Woodward Clyde in 1990.
- Pesticides and PCBs Pesticides and PCBs in the saltwater reach of Ballona Channel were analyzed by Chambers/Soule and CDM in 1991 and 1996-1998, respectively. These compounds were not found above laboratory detection limits during these sampling events.



- Tributyltin TBT in the saltwater portion of Ballona Channel was only analyzed in CDM samples in 1996. TBT was not detected above laboratory detection limit of 95 ppt.
- Heavy Metals Dissolved copper, selenium, and zinc were detected at concentrations exceeding CTR criteria in the 1996-98 sampling. In general, heavy metals concentrations were higher during the more recent 1996-1998 sampling than the previous 1990 and 1991 sampling. Other detected metals in the sampling results after 1991 (boron, cadmium, chromium, iron, lead, manganese, and mercury) were below CTR criteria or did not have criteria.
- Oil/Grease and Petroleum Hydrocarbons Samples were analyzed for oil and grease by Chambers Group/Soule and CDM. Oil and grease concentrations ranged from 0 to 57 mg/L in the Chambers Group/Soule samples. TPH and TRPH were not detected by CDM during the 1996-1998 sampling event.
- Dissolved Oxygen and Oxygen-Consuming Material Samples were analyzed for dissolved oxygen only in 1996-1997 by ABCL. Dissolved oxygen concentrations ranged from 5.5 to 13.9 mg/L, which spans the normal range of 6 to 8.5 mg/L for along the open coast. BOD was analyzed in 1995-1996 by CDM and in 1996-1997 by ABCL with concentrations ranging from 0 to 12 mg/L and 0 to 15 mg/L, respectively. COD concentrations were a magnitude higher in 1996-1998 than in 1991.
- Indicator Bacteria Indicator bacteria were analyzed by ABCL in 1996-1997 and CDM in 1998. Fecal coliform concentrations ranged from 0 to 1,300 MPN/100 mL, and 0 to 16,000 MPN/100 mL for total coliform concentrations.

#### **Ballona Wetlands**

Saltwater in drainage channels in the Ballona Wetlands was sampled during dry weather by CDM. As shown in Table 4-10, samples were tested for metals, VOCs, SVOCs, indicator bacteria, and general parameters.

- Nutrients Nitrate/nitrate-N, phosphorus, and TKN concentrations were lower in 1998 than they were in 1990.
- Heavy Metals Dissolved arsenic, copper, nickel, and selenium were detected at concentrations exceeding CTR criteria. Aluminum, antimony, barium, boron, cadmium, chromium, iron, lead, manganese, molybdenum, silver, thallium, and vanadium were also detected. Arsenic and selenium concentrations were higher during the more recent 1998 sampling than the previous 1990 sampling event.
- Pesticides and PCBs Pesticides and PCBs compounds were not found above laboratory detection limits.



- Dissolved Oxygen and Oxygen-Consuming Material Dissolved oxygen was not analyzed for any of the sampling events. However, BOD and COD were analyzed with concentrations averaging 76 mg/L and 675 mg/L, respectively.
- Indicator Bacteria Samples from the Ballona Wetlands were analyzed for fecal and total coliform. Concentrations for these constituents averaged 0.33 and 2.17 MPN/100 mL, respectively.

#### Freshwater Marsh

Water in the Freshwater Marsh was sampled during dry weather by CDM. As shown in Table 4-11, samples were tested for metals, VOCs, SVOCs, indicator bacteria, and general parameters.

- Heavy Metals Antimony, arsenic, cadmium, chromium, iron, lead, manganese, nickel, silver, and zinc were detected but not at concentrations exceeding CTR criteria.
- Pesticides and PCBs Pesticides and PCBs compounds were not found above laboratory detection limits.
- Dissolved Oxygen and Oxygen-Consuming Material Dissolved oxygen was not analyzed for any of the sampling events. However, BOD and COD were analyzed with concentrations averaging 3 mg/L and 34 mg/L, respectively.
- Indicator Bacteria Samples from the Freshwater Marsh were analyzed for fecal and total coliform. Concentrations for these constituents averaged 6 and 20 MPN/100 mL, respectively.

#### 4.3.2 Wet Weather

#### Santa Monica Bay

Water in the Santa Monica Bay was sampled during wet weather by ABCL in 1997. As shown in Table 4-12 samples were analyzed for BOD, DO, ammonia, and indicator bacteria.

- Nutrients Ammonia concentrations were above the typical open ocean range of 0.002 to 0.009 mg/L.
- Dissolved Oxygen and Oxygen-Consuming Material Samples were analyzed for dissolved oxygen and BOD by ABCL in 1997. Concentrations averaged 6.36 mg/L, within the normal range of 6 to 8.5 mg/L for along the open coast. BOD concentrations ranged from 2.2 to 3.4 mg/L.
- Indicator Bacteria Fecal and total coliform were analyzed for 11 samples by ABCL in 1997. Concentrations detected ranged from 0 to 20 MPN/100 mL for both total and fecal coliform well below the recommended fecal coliform objectives of



 $200\,MPN/100\,mL$  and total coliform objectives of 1,000 MPN/100 mL for recreational activities.

#### **Ballona Channel**

Saltwater in the Ballona Channel tidal prism was sampled during wet weather by ABCL, CDM, and Chambers Group/Soule. As shown in Table 4-13, samples were tested for metals, VOCs, SVOCs, pesticides and PCBs, indicator bacteria, and general parameters.

- Nutrients Samples were analyzed for ammonia, TKN, phosphorus, organic nitrogen, and nitrate. Ammonia concentrations were above the typical open ocean range of 0.002 to 0.009 mg/L. Water quality criteria did not exist for any of the other nutrients. Phosphorus concentrations were higher in the 1995-1996 sampling than they were in 1992, and both were above the typical open ocean range for this constituent.
- Pesticides and PCBs Pesticides and PCBs in the saltwater section of Ballona Channel were analyzed by Chambers/Soule in 1992. These compounds were not detected above laboratory detection limits during this sampling event.
- Tributyltin TBT in the freshwater of Ballona Channel was only analyzed in CDM samples in 1995-1996. The average TBT detection was 0.0045 ppt.
- Heavy Metals Only dissolved copper and dissolved zinc were detected above the CTR criteria. All other detected metals (total copper, dissolved iron, dissolved manganese, total nickel, and total zinc) were below water quality criteria or did not have criteria.
- Oil/Grease and Petroleum Hydrocarbons Samples were analyzed for oil and grease by Chambers Group/Soule and CDM. Concentrations were relatively similar for the two sampling events with concentrations ranging from 0 to 16 mg/L.
- Dissolved Oxygen and Oxygen-Consuming Material Samples were analyzed for dissolved oxygen by ABCL in 1996 to 1997. Concentrations averaged 6.41 mg/L, within the normal range of 6 to 8.5 mg/L for along the open coast. BOD was analyzed by CDM and by ABCL with concentrations ranging from 15 to 183 mg/L and 3.2 to 8.7 mg/L, respectively. Immediate oxygen demand and COD were analyzed by Chambers Group with concentrations ranging from 0 to 1.2 mg/L and 105 to 170 mg/L, respectively.
- Indicator Bacteria Fecal and total coliform were not detected above laboratory detection limits by ABCL in 1997.



#### **Ballona Wetlands**

Saltwater in the Ballona Wetlands was sampled during wet weather by GeoSyntec in 2000. As shown in Table 4-14, samples were tested for metals, VOCs, and general parameters.

Heavy Metals - Only dissolved copper was detected above the CTR criteria. All
other detected metals were below water quality criteria or did not have criteria.

#### 4.3.3 Sediment

#### Santa Monica Bay

Sediment in Santa Monica Bay was sampled by Chambers Group/Soule in 1992, ABT in 1995, and ABCL in 1996-1997. As shown in Table 4-15, samples were analyzed for metals, VOCs, pesticides and PCBs, and general parameters.

- Nutrients Only one sample from the 1992 sampling event was analyzed for organic nitrogen compared to the 11 samples collected in 1996. The reported concentrations for this constituent in 1992 was within the range of the 1996 samples.
- Pesticides and PCBs p,p'- DDT was detected above PEL guidance values in 2 out of 17 samples. Other detected pesticides included chlordane, heptachlor epoxide, p,p-DDD, endrin aldchyde, alpha-chlordane, and gamma-chlordane.
- Tributyltin TBT was detected in the ppb range during all three sampling events.
- Heavy Metals Barium, cobalt, and lead were detected at least once at concentrations exceeding the PEL sediment guidance values. In general, heavy metals concentrations were higher in recent sampling compared to the 1992 sampling.
- Oil/Grease and Petroleum Hydrocarbons Oil and grease analytical results were lower in the most recent sampling event compared to the 1992 sampling event.
   TRPH was only tested for by ABT at concentrations up to 874 ppm.

#### **Ballona Channel**

Sediment in the saltwater portion of Ballona Channel was sampled by ABCL, CDM, and Chambers Group/Soule. As shown in Table 4-16, samples were tested for metals, VOCs, SVOCs, pesticides and PCBs, and general parameters.

Nutrients - Samples were analyzed for ammonia, TKN, total inorganic nitrogen, phosphorus, nitrite, and nitrate. Nitrogen exists only in the organic-nitrogen form. Sediment guidance values do not exist for any of these nutrients. Phosphorus concentrations were higher in the recent 1996-1998 sampling events by CDM than they were in the 1992 sampling.



- Pesticides and PCBs Pesticides and PCBs were analyzed by Chambers/Soule in 1992, by ABCL in 1996-1997, and by CDM in 1996-1998 for select parameters. Detected pesticides included chlordane, p, p'-DDE, p,p-DDT, p,p-DDD, alphachlordane, gamma chlordane, and PCB-1254. Chlordane, p, p'-DDT and p,p'-DDD were detected above sediment guidance values in at least 3 samples.
- Tributyltin TBT was detected in the ppb range in 1992 by Chambers
   Group/Soule and in 1996 to 1997 by ABCL, but was not detected by CDM in 1996.
- Heavy Metals -Lead, Manganese, and nickel were detected at concentrations exceeding the PEL sediment guidance values at least once, but were generally below the guidance values. Other detected metals were either below sediment guidance values or did not have sediment guidance values.
- Oil/Grease and Petroleum Hydrocarbons Oil and grease analytical results indicate highly variable levels of these constituents ranging from 0 to 27,800 ppm. TPH-diesel and TRPH were detected during the most recent sampling at concentrations up to 2,300 ppm. TPH-gasoline was not detected above laboratory detection limits.

#### **Ballona Wetlands**

Sediment in the drainage channels of Areas B and D was sampled by CDM in 1998 and by GeoSyntec in 2000. As shown in Table 4-17, samples were tested for metals, VOCs, SVOCs, pesticides and PCBs, and general parameters.

- Nutrients The 1998 sample was analyzed for nutrients including ammonia, TKN, total inorganic nitrogen, phosphorus, nitrite, and nitrate. Nitrogen was found entirely in the organic-nitrogen form. Sediment guidance values do not exist for any of these nutrients.
- Pesticides and PCBs P,p'-DDT and chordane were detected during the 2000 sampling at levels above the PEL guidance values.
- Heavy Metals Barium, lead, and zinc were detected at least once at concentrations exceeding PEL sediment guidance values, although the values were generally below the guidance values. In general, heavy metals concentrations in the 1998 sampling were within the same range as the 1990 sampling concentrations. Other detected metals were below sediment guidance values or did not have guidance values.
- Oil/Grease and Petroleum Hydrocarbons Oil and grease results indicate that
  these constituents were lower in 1998 (62 ppm) than in 1990 (1,095 ppm mean).
   TRPH was detected during the more recent 1998 sampling at concentrations of
  50 ppm. TPH-diesel and TPH-gasoline were not detected above laboratory
  detection limits.



#### 4.3.4 Sediment/Soil

#### **Ballona Wetlands**

Soil/sediment in The Ballona Wetlands was sampled by CDM in 1998. These sampling locations represent locations that were dry during sampling but were located in areas that were likely wet during the wet weather season and received depositional material. As shown in Table 4-18, samples were tested for metals, VOCs, SVOCs, pesticides and PCBs, and general parameters. It should be noted that only 4 samples comprise this sample set.

- Nutrients The samples were analyzed for nutrients including ammonia, TKN, total inorganic nitrogen, phosphorus, nitrite, and nitrate. Ammonia, nitrate, nitrite, and total inorganic nitrogen were not detected. Nitrogen exists only in the organic-nitrogen form. Sediment guidance values do not exist for any of these nutrients.
- Pesticides and PCBs Only one sample was analyzed for pesticides and PCBs during the 1998 sampling event. No pesticides or PCBs were detected above laboratory detection limits.
- Heavy Metals Two samples were tested for metals during the 1998 sampling event. None of the detected metals exceeded sediment guidance values or did not have guidance values.
- Oil/Grease and Petroleum Hydrocarbons Only one sample was analyzed for oil and grease, TRPH, TPH-gasoline, and TPH diesel during the 1998 sampling event. Oil and grease, TRPH and TPH-diesel analytical results were 43 ppm, 40 ppm, and 6.8 ppm, respectively. TPH-gasoline was not detected above laboratory detection limits.



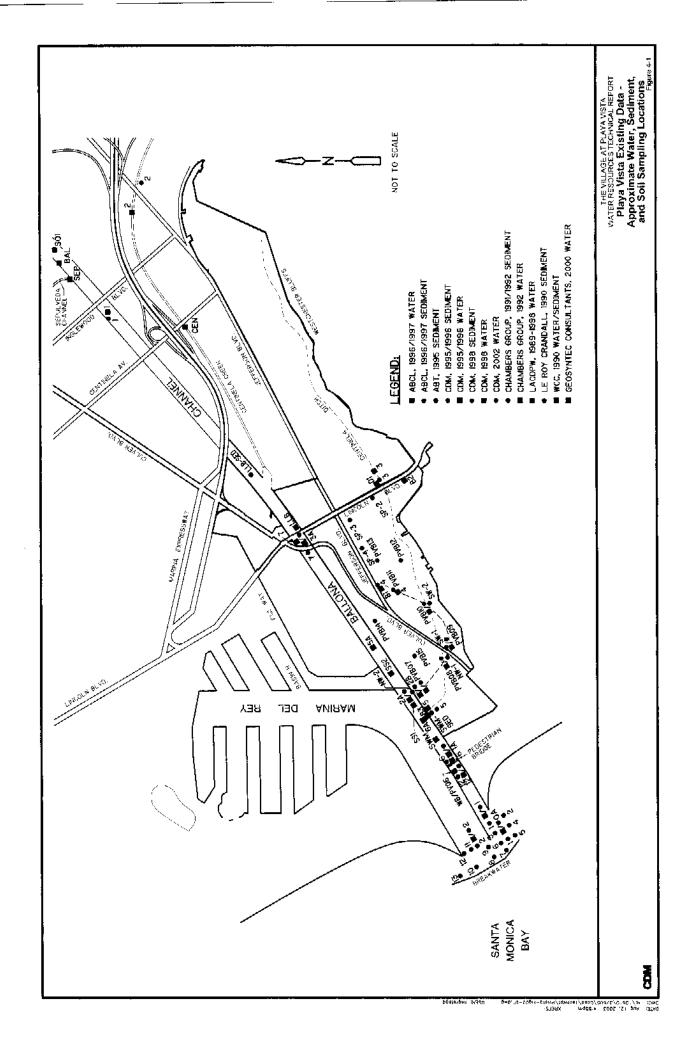


Table 4-1	Summary of Playa Vista Existing Data
Table 4-2	Summary of Water Quality Sampling - Dry Weather Data- Ballona Channel - Saltwater, Prior to 1991
Table 4-3	Summary of Water Quality Sampling Dry Weather Data- Ballona Wetlands - Saltwater, Prior to 1991
Table 4-4	Summary of Water Quality Sampling Dry Weather Data- Centinela Ditch - Saltwater, Prior to 1991
Table 4-5	Summary of Sediment Quality Sampling - Ballona Channel - Saltwater, Prior to 1991
Table 4-6	Summary of Sediment Quality Sampling - Ballona Wetlands - Saltwater, Prior to 1991
Table 4-7	Summary of Sediment Quality Sampling – Centinela Ditch – Saltwater, Prior to 1991
Table 4-8	Summary of Water Quality Sampling – Dry Weather Data - Santa Monica Bay, After 1991
Table 4-9	Summary of Water Quality Sampling - Dry Weather Data – Ballona Channel – Saltwater, After 1991
Table 4-10	Summary of Water Quality Sampling – Dry Weather Data - Bailona Wetlands – Saltwater, After 1991
Table 4-11	Summary of Water Quality Sampling – Dry Weather Data – Freshwater Marsh, After 1991
Table 4-12	Summary of Water Quality Sampling – Wet Weather Data – Santa Monica Bay, After 1991
Table 4-13	Summary of Water Quality Sampling – Wet Weather Data – Ballona Channel - Saltwater, After 1991
Table 4-14	Summary of Water Quality Sampling Wet Weather Data - Ballona Wetlands Saltwater, After 1991
Table 4-15	Summary of Sediment Quality Sampling Santa Monica Bay, After 1991
Table 4-16	Summary of Sediment Quality Sampling - Ballona Channel - Saltwater, After 1991
Table 4-17	Summary of Sediment Quality Sampling – Ballona Wetlands – Saltwater,



Table 4-18 Summary of Sediment/Upland Soil Quality Sampling – Ballona Wetlands – Saltwater, After 1991



# Summery of Playa Vista Existing Data

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CDM - Comp Dressey - & Notice
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- - \* Numbers in parenthases relicate number of samples available in sample set.
- - \* Those samples are actually classified at sedimentive they were not taken where water was present.

Table 4-2

# Summary of Water Quality Sampling Dry Weather Data - Ballona Channel - Saltwater Prior to 1991

Parameter	Units	CTR Chronic SW	Total Number of Samples	Total Number of Samples		All Data	
		Criteria	Samples	Over Criteria	Minimum	Maximum	Mean
General	· Carbota mark	de 1987 e e		90:11:07		<b>共产业</b>	A A Hara
Oil and Grease	mg/i	_	2		NO	ND -	NO
Hardness	mq/l		2		6100	6300	6200
Ammonia	mg/l		2		ND	ND	NO
Nitrale	mg/l	<del> </del>	. 2		ND	0.07	0.0
TKN	mg/l		2		ND	0.8	0.4
Total Phosphorus	mg/l		2	_	0.03	0,16	0.10
Orlhophosphorus	mg/l		2		0.02	0.13	0.08
Total Suspended Solids	mg/l	_	2		100	110	105
Volatile Organics	36-3600	Table Principle (1997)			# 65 FA		
Tetrachloroethene	µg/l	1,44,15-14	2	. –	ND	ND	ND
Toluene		200000	2	0	ND	ND	ND ND
	μg/l	1600	2	<u>ŏ</u>	ND	ND	ND
Methylene Chloride	hū\]		2		ND ND	ND ND	ND ND
1,2-Dichloroethane	μg/1	99	2	0	ND ND	ND	NO NO
Chloroform	μ <u>ο</u> /1	470					4
1,1,1-Trichloroethane	μg/1		2	<del></del>	ND	ND	ND MD
Benzona	μολ	71	2	0	ND ND	ND ND	ND
Ethylbenzene	μg/1	29000	2	0	ND	NO	ND
Chloromethane	µg/l		2		ND	ND	ND
Bromomethane	μαλ		2		ND	ND	ND
Dichlorodi#uoromethane	μд/1		2		ND	ND	ND
Vinyl Chloride	μg/ì	525	2	0	ND	ND	ND
Chloroethane	μg/l	<u> </u>	2		ND	ND	ND
Trichforofluoromenthane	րդ/1		2		ND	ND	ND
1.1-Dichloroethene	μ9/1		2		ND	ND	ND
1,1-Dichloroethane	μg/		2		ND	ND	ND
trens-1,2-Dichloroethene	μg/1	<del></del>	2	_	ND	ND	ND
Carbon Tetrachloride	μ <b>g/</b> 1	4.4	2	0	ND:	ND	ND
Bromodichloromethane	kg/l		2		ND	ND	, ND
1,2-Dichloropropane	µg/l	39	2	0	ND	NO	ND
trans-1,3-Dichloropropene	μg/I	<del></del>	2		ND	GN	DN
Trichloroethene	μη/Ι	<del> </del>	2		ND	ND	ND
Dibromochioromethane		<del> </del>	2		ND	ND	ND
1,1,2-Trichloroethane	μg/l	42	2	0	ND	ND ND	ND
	μς/1	1700	2	0	ND	ND ND	ND ND
cis-1,3-Dichloropropene	μg/1	1700	2		ND ND	ND ND	ND ND
2-Chloroethylvinyfether	μg/1	360	2	0	ND	ND ND	ND
Bromoform	μg/Ι	11	2	0	ND	ND	ND ND
1,1,2,2-Tetrachloroethane	μg/			0	ND	ND ND	ND
Chlorobenzene	μду!	21000	2		NO NO	ND	ND
1,2-Dichforobenzene	μg/i	17000	2	0		ND ND	ND ND
1,3-Dichlorobenzene	μgA	2600	2		ND ND	ND ND	<b>.</b>
1,4-Dichlorobenzene	<u>μg/l</u>	2600	2	0	ND ND		ND ND
Total Xylenes	μ <u>ο</u> /Ι	ļ. <u> </u>	2	<del> </del>	ND ND	ND ND	ND
Acetone	hā/j	<u> </u>	2		ND	11	6
Other VOCs	μ <u>ο</u> /1		2		ND	UND	NO
PAHs	μα∕ι		2	<u> </u>	ND	ND	ND
Semi-Volatile Organics	.: The #4	CONTRACTOR OF STREET	. 9 <b>%.2. 2. \$</b> F8	1115 <b>6</b> (14) 1 <b>16</b> 61 (4)			
Naphthalene	μдЛ		2	<u> </u>	ND	ND	ND
Metals	- C		57.44 · · · · · · · · · · · · · · · · · ·		\$ <b>\$4</b> *16 <b>5</b> *		
Dissolved Arsenic	μg/l	36	2	0	ND	2	.1
Dissolved Cadmium	µg/l	9.3	2	0	ND	ND	ND
Dissolved Chromium*	μg/l	50	2	0	8	10	9
Dissolved Copper	μg/l	3.1	2	2	4	4	4
Dissolved Lead	μg/l	8.1	2	0	NO	ND	NÖ
Dissolved Mercury	μg/l		2		ФИ	ND	ND
			2		ND	ND ND	ND
	1 1.07						
Dissolved Nickel	μο/1	8.2					
	идл hдл	71	2 2	0 -	ND ND	ND 1.7	ND 0.9

#### **Summary of Water Quality Sampling** Dry Weather Data - Ballona Channel - Saltwater Prior to 1991

Parameter	Units	CTR Chronic SW	Total Number of Samples	Total Number of Samples		All Data	
		Criteria	<u> </u>	Over Criteria	Minimum	Maximum	Mean
Pesticides b	- 43 . 44 t	<b>经验证</b>	X - 1	A SERVICE AND	er 19 OAD - 1		
beta-BHC	µg/l	0.046	2	Ü	GN	ND .	ND
delta-BHC	pg/l		2		ON	ND	ND
P,P'-DDD	μς/Ι	0.00084	2	0	ND	ND	ND
P,P-00E	μο/1	0 00059	2	0	ND	ND	ND
PCB-1016	μд/	0.03	2	0	ND	ND	ND
PCB-1221	μg/i	0.03	2	0	ND	ND	ND
PC8-1232	µg/1	0.03	2	0	ND	NĐ	ND
PCB-1242	μg/l	0.03	2	0	ND	ND	ND
PCB-1248	μg/1	0.03	2	0	NĐ	ND	ND
PCB-1260	μg/1	0.03	2	0	ON	ND	ND
PCB-1254	до/	0.03	2	0	ND	ND	ND
Aldrin	μдΛ	0.00014	2	0	ND	ND	ND
alpha-BHC	μg/1	0.013	2	0	ND	ND	ND
Lindane	μg/1	0.063	2	0	ND	ND	ND
Chlordane	µg/l	0.004	2	0	ND	ND	ND
Dieldrin	Jig/l	0.0019	2	Ö	ND	ND	ND
Endrin	jug/l	0.0023	2	0	ND	ND	NO
Toxaphene	μg/l	0.0002	2	0	ND	ND	ND
Heptachlor	jig/l	0.0036	2	0	ND	ND	GN
Heptachlor Epoxide	μ <b>g/</b> 1	0.0036	2	0	ND	ND	ND ND
P.P'-DDT	μα/1	0.001	2	0	ND	ND	ND

#### Notes:

– - No Criteria

NA - Not Analyzed

ND - Not Detected

1990 WCC = 1990, November. Woodward-Clyde Consultants, Final Technical Appendix to the Master EIR, Table 5-2.
Final CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California.

Criteria for hexavalent chromium was used for chromium

<sup>&</sup>lt;sup>b</sup>CTR criteria are from human health organisms only criteria, except for PCBs, Chlordane, Toxaphene, Heptachlor, and P,P-DDT.

# Summary of Water Quality Sampling Dry Weather Data - Ballona Wetlands - Saltwater Prior to 1991

	1	CTR	Total	Total Number of		400-4-	
Parameter	Units	Chronic SW	Number of	Samples		All Data	
	•	Sw Criteria	Samples	Over Criteria	Minimum	Maximum	Mean
<del></del>	MAY SECONOMINANTAL		ACCIMINATES CARD STRUMENT CONTRACTOR	Over Citiesta			
General							40 S. 10 S. 10
Oil & Crease	<u> </u>		<u> </u>	0	ND	ND ND	ND
Hardness	mg/f		1	_	140	140	140
Ammonia-N	mg/l		1	<u> </u>	2.2	2.2	2.20
Nitrate	mg/L		1	_	0.24	0.24	0.24
TKN	mg/t		1 1		3.4	3.4	3.40
Total Phosphorus	fmg/i	_	1	<del></del>	1.6	1.6	1.60
Orthophesphorus	mg/l		1	_	1.4	1.4	1.40
Total Suspended Solids	mg/l		1		16	16	16.00
VOCs*		<b>14</b>				CALL YEAR OF S	e
Acetone	μg/l	_	1	<del>-</del>	14	14	14.00
Methylene Chloride	μg/1		1	_	NO	ND	ND
Other VOCs	µg/l		1		ND	ND	ND
Serni-Volatile Organics *		, A		Maria Carte Color	Admira is	**************************************	data aku
PAHs	дд/1	i —	1		ND	ND	ND
Metals			60 B	MANAGEMENT OF THE	<b>A</b>	in Cristian Comment	1 2 79.29
Dissolved Arsonic	µд/І	36	1	0	ND	ND	ND
Dissolved Cadmium	μд∕1	9.3	1	0	0.1	0.1	0.10
Dissolved Chromium <sup>b</sup>	րց/I	50	1	0	1	1	1.00
Dissolved Copper	μg/l	3.1	1	1	5	5	5.00
Dissolved Lead	µд/1	8.1	1	0	ND	ND	ND
Dissolved Mercury	дд/І	T	1		ND	ND	ND
Dissolved Nickel	μдЛ	8.2	1	1	9	9	9.00
Dissofved Selenium	μg/l	71	1	0	ND .	ND	ND
Dissolved Silver	μg/1		1		ND	ND	ND
Dissolved Zinc	μgЛ	81	1	0	54	54	54.00
Pesticides	***	TO STATE	500	8	1875 - F. F.		No. 10
Pesticides and PCBs	µд∕1		1	_	NÚ	ND	ND

#### Notes:

— - No Criteria

NA - Not Analyzed

ND - Not Detected

1990 WCC = 1990, November. Woodward-Clyde Consultants, Final Technical Appendix to the Master EIR. Table 5-2.

Final CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment

of Numeric Criteria for Priority Toxic Pollutants for the State of California.

<sup>\*</sup>CTR Criteria are from human health organisms only criteria.

<sup>&</sup>lt;sup>b</sup>Hexavalent chromium criteria is used for chromium.

# Summary of Water Quality Sampling Dry Weather Data - Centinela Ditch - Saltwater Prior to 1991

Parameters	Units	CTR Chronic SW Criteria	Total Number of Samples	Total Number of Samples Over Guidance Values		Ali Deta	
	1 1				Minimum	Maximum	Mean
General	2-44	1877 - MODE - 1		7.5	1977 : 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	// · · · · · · · · · · · · · · · · · ·	9.40 ( s. c.
Total Hardness	mg/L		1		720	720	720
Total Suspended Solids *	mg/L		1		140	140	140
Nitrate	mg/L		1		0.23	0.23	0.23
Ammonia	mg/L		1		ND	ND	ND
TKN3	mg/L	_	1		1.5	1.5	1.50
Orthophosphorus*	rxy/L		1		Ω.4	0.4	0.4
Total Phosphorus	mg/L		1		0.76	0.76	0.76
PAHs	μg/L		1		ND	NO	ND
Oil & Grease	пц∕∟		1		ND	ND	ND
Pesticides and PCBs	340/1		ï		, ND	ND	ND
VOCs	- 24		* <b>4.1</b> ************************************	<del> </del>	Mark to be	7. P	**************************************
Acetone b	μg/L		1	_	ND	ND	ND
Methylene Chloride <sup>c</sup>	μg/L	1,600	1	0	ND	ND	ND
Other VOCs	110/3		. 1	_	NÖ	ND	ND
Metals (Dissolved)	70	August Mark	<b>是</b>			E. A. COA S. N. C.	
Dissolved Arsenic	μg/L	36	1	0	7	7	7.0
Dissolved Cadmium	μg/L	9.3	1	0	2	2	2.00
Dissolved Chromium d	μg/L	50	1	0	9	9	9
Dissolved Copper	μg/L	3.1	1	1	5	5	5
Dissolved Lead	μg/L,	8.1	1	1 1	19	19	19.0
Dissolved Mercury	μg/L		1		ND	ND	ND
Dissolved Nickel	μg/L	A.2	1	0	7	7	7
Dissolved Selenium	μց∕Ն	71	1	0	ND	ND	NO NO
Dissolved Silver	μg/L	_	1		ND	ND	ND
Dissolved Zinc	μg/L	81	1	0	54	54	54

#### Notes:

0 - Not Detected

NA - Not Analyzed

ND - Not Detected

1990 WCC = 1990, November 14. Woodward-Clyde Consultants, Final Technical Appendix to the Master EIR. Table 5-2.

Final CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of Celifornia.

1990, July. Woodward-Clyde Consultants, Dry Weather Sampling Results Report. Table 4.

<sup>&</sup>lt;sup>a</sup> Results for Onthophosphate, Total Suspended Solids, and Total Kjeldahl Nitrogen from:

<sup>&</sup>lt;sup>b</sup> Acetone was also detected in the trip blank for the samples with hits, so the results should be reviewed with caution

<sup>&</sup>lt;sup>e</sup> CTR criteria are from human health organisms only criteria.

The value for Hexavalent Chromium was used for chromium

<sup>\*</sup> Indicates exceeds any of the listed criteria or guidance values.

Table 4-5

# Summary of Sediment Quality Sampling Data Ballona Channel - Saltwater Prior to 1991

		NOAA	Total	Total			
Parameter	Units	SQuiRT	Number of	Number of		Alf Data	
( al arriesco	J						
	ļ	Marine Sediment PELs *	Samples	Samples Over Guidance Values	Minimum	Maximum	Меал
		1999	Service Control of the Control of th	Guidance values	10111111111111111111111111111111111111		
General			2		46	57	52
Oil and Grease	mg/kg				S- 46 11 11	3.54	
VOCs			2		I ND	ND	ND
Chloromethane	mg/kg		2		ND	ND	ND
Bromomethane	µg/kg	· <del></del>	2		ND	NO	ND ND
Vinyl Chloride	µд∕кд		2		ND ND	ND	ND
Chloroethane	pg/kg	<del>-</del>	2		ND ND	ND	ND ND
Methylene Chloride	µg/kg		2		ND ND	ND	ND ND
Trichloroffuoromethane	µg/kg		2		ND	ND	ND
1,1-Dichloroethene	pg/kg				ND	ND	ND
1,1-Dichleroethane	ha/ka		2		ND	ND	ND
trans-1,2-Dichloroethene	µg/kg		2		ND	ND ND	ND ND
Chloroform	µg/kg		2		ND ND	ND	ND
1,2-Dichloroethane	µg/kg	<u> </u>	2		ND ON	ND ND	ND
1,1,1-Trichloroethane	pg/kg		2		ND	ND ND	ND ND
Carbon Tetrachloride	µд∕кд		2		ND ND	NO NO	ND ND
Bromodichloromethane	µg/kg	<u> </u>	2		7	ON ON	ND ND
1,2-Dichloropropane	jej/kg		2		ND	ND ND	ND ND
trans-1,3-Dichloropropenn	pg/kg	<u> </u>	?		ND		
Trichloroethene	μg/kg	41	22	0	ND	ND	ND
Dibromochloromethane	μg/kg		2	<u> </u>	ND	ND	ON
1.1.2-Trichloroethane	μg/kg	— — — — — — — — — — — — — — — — — — —	2	<del>_</del>	ND	ND	ND
cis-1,3-Dichloropropene	μg/кg	— — — — — — — — — — — — — — — — — — —	2		ND	ND	ND
2-Chloroethylvinyl other	μg/kg		2		ND	ND .	ND
Bramatom	μg/kg	<u> </u>	2		ND	ND	ND
1.1.2.2-Tetrachloroethane	pg/kg	<del></del>	2	<del></del>	ND	ND	ND
* Tetrachloroethene	μg/kg	57	2	Ö	ND	ND	ND
Benzene	µg/kg		2 "	<del></del>	ND	ND	ND
Chlorobenzene	µg/kg		2	_	ND	ND	ND
1,2-Dichlorobenzene	µg/kg		2	7,777	ND	NO	ND
1.3-Dichlorubenzene	μg/kg		2	_	ND	ND	ND ND
1,4-Dichlorobenzene	па/ка	1	2		, ND	ND	NÖ
<sup>b</sup> Ethylbenzene	ра/ка	4	2	0	ND	ND	ND
Toluene	pg/kg	<del>                                     </del>	2		NÐ	ND	NO
b Total Xylenes	pg/kg	<del>-</del>	2	0	ND	ND	ND
SVOCs	WATER CONTROL OF THE PARTY OF T			98547824 (3) (3)	200	- 4-98 A	× 1. 40 M/V
bis(2-Ethylhexyl)phthalate	μg/kg		i 2	<u> </u>	ND	0.9	0.5
Metals	pg/kg	HANGE BOOK OF THE PERSON OF TH		\$100 PM (\$2.50 PM)	137	0.00 U	A CONTRACTOR
Arsenic	mg/kg	41.6	1 2	0	1	1	1.0
Cadmium	mg/kg	4.21	2	0	ND	ND	ND
Copper	mg/kg	108.2	2	0	9	12	17
Lead	mg/kg	112.18	2	0	ND	ND	ND
******	mg/kg	0.696	2	0	ND	ND	ND
Mercury Nickel		42.8	2	<u> </u>	ND	ND	ND
	mg/kg	1		0	ND	ND	ND
<sup>p</sup> Selenium	mg/kg		2 2	0	ND ND	ND	ND
Silver	mg/kg	1.//	2	0	13	19	16
Zinc	mg/kg	271		<u> </u>	1	1	

Table 4-5

# Summary of Sediment Quality Sampling Data Ballona Channel - Saltwater Prior to 1991

Parameter	Units	NOAA SQuIRT	Total Number of	Total Number of		All Data	
		Marine Sediment PELs * 1999	Samples	Samples Over Guidance Values	Minimum	Maximum	Mean
Pesticides and PCBs	LINEST COM.	· 医安特斯斯氏病		1998 Style	SPECIAL SPECIA	PO F SHOWING	
<sup>b</sup> Aldrin	μg/kg	9.5	2	0	NO	ND	ND .
alpha-BHC	µg/kg		2	·	ND	ND	ND
beta-BHC	µg/kg		2	<u> </u>	ΝĐ	ND	ND
delta-BHC	μg/kg		2		ND	ND	NO
Lindane	pg/kg	0.99	2	0	ND	ND	ND
Chlerdane	μg/kg	4.76	2	0	ND	ND	NO
Dieldrin	μg/kg	4.3	2	0	ND	ND	ND
Endrin	µg/kg		2		ND _	ND	ND
Toxaphene	µg/kg		2		ND ND	ND	ND
b Heptachlor	µg/kg	0.3	2	0	ND	ND	ND
Heptachlor Epoxide	µg/kg		2		ND	ND	ND
P.P'-00T	µg/kg	4.77	2	0	ND	ND	ND
P.P'-000	µg/kg	7.81	2	0	ND	ND	ND
P.P'-DOE	рд/кд	374.17	2	0	NO	ND	ND
PCB-1016	μg/kg	188.79	2	0	NĐ	ND	ND
PCB-1221	µg/kg	188.79	2	0	ND	ND	ND
PCB-1232	μυ/kg	188.79	2	0	ND	ND	ND
PCB-1242	μg/kg	188.79	2	O	ND	ND	ND
PCB-1248	µg/kg	188.79	2	0	ND	ND	ND
PC8-1254	pg/kg	188.79	2	0	ND	ND	ND
PC8-1260	μg/kg	188.79	2	0	ND	ND D	ND_

#### Notes:

-- No Guidance Value

NA - Not Analyzed

ND - Not Detected

1990 WCC = 1990, November. Woodward-Clyde Consultants, Final Technical Appendix to the Master EfR. Table 5-7. PEL - Probable Effects Level, feval above which adverse effects are frequently expected

<sup>\*</sup>Buchman, M.F., 1999. NOAA Screening Quick Reference Tables, NOAA HAZMAT Report 99-1, Seattle, WA. Coastal Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12 pages.

<sup>&</sup>lt;sup>b</sup> Apparent Effects Threshold (AET) is used instead because PEL is not listed

# Summary of Sediment Quality Sampling Data Ballona Wetlands - Saltwater Prior to 1991

Parameter	Units	NOAA SQuiHT Marine Sediment PELs *	Total Number of Samples	Total Number of Samples Over Guidance Values		All Data	
	l l	1999			Minimum	Maximum	Mean
General	23300	***		CA 100 1 10 10 10 10 10 10 10 10 10 10 10			mingroup mondification (pp. 104)
Oil and Grease	mg/kg		11		2100	2100	2100
VOCs		3.5	* 144 <b>0</b> (44 )	A STATE OF THE STA			
Methylene chloride	pg/kg		1		ND	ND	ND
1,2-Dichloroethane	µg/kg		1		ND	ND	ND
Chloroform	µg/kg		1		NO	ND NO	ND
1,1,1-Trichloroethung	μg/kg		1		ND	ND	ND
Benzene	ug/kg	<u> </u>	1		ND ND	ND ND	ND ND
Toluene	h@/kg		1	<u> </u>		ND ND	ND
Ethylbenzene	pg/kg	4	1,	0	ND ND	ND ND	ND ND
Carbon Disulfide	pg/kg		1		ND	ND	ND ND
1,1,2,2-Trirachioroethane	µg/kg		1	<u> </u>	ND ND	ND	ND
1,1,2-Trichloroethane	µg/kg	<del></del>		<del></del>	ND	ND	ND ND
1,1-Dichloroethane	μg/kg		1	<del></del>	ND ND	ND ND	ND
1,1-Dichloroethene	µg/kg _		1	<del></del>	ND	ND ND	ND ND
1,2-Dichlorobenzene 1,2-Dichloropropane	µg/kg µg/kg		1		ND	ND ND	ND ND
1,2-Dickeropropane 1,3-Dichlorobenzene		<del>                                     </del>	i	<del></del>	ND	ND ND	ND
1,3-Dichlorobenzene	μg/kg μg/kg	<del></del>	1		ND	ND	ND
2-Chioroethylvinylether	pg/kg	<u> </u>	<u> </u>	<del> </del>	ND	ND .	ND
2-Hexanone	havea		1	<del> </del>	ND	ND	ND
Acetone	pg/kg		1		ND	ND	ND
Acrolein	µg/kg		<u>i</u>	<del> </del>	ND	ND	ND
Acrylonitrile	µg/kg		1		ND	ND	ND
Bromodichloromethane	µg/kg		1		ND	ND	ND
8romomethane	µg/kg		1	_	ND	ND	NO
Bromotorm	ру/ку		1	<del>-</del>	ND	ND	ND
Chlorobenzene	µg∕kg	<b>—</b>	1		ND	МD	СИ
Carbon Tetrachloride	µg/kg		1	<u> </u>	ND	ND	ND
Chloroethane	μg/kg		1		ND	ND	NĐ
Chloromethane	μg/kg		1		ND	ND	NĐ
Dibromochloromethane	μg/kg		1		ND	ND	ND
Freon-113	µg/kg	-	1		ND	ND	ND
Methyl Ethyl Ketone	µg/kg		1		ND	ND	ND
Methyl Isobutyl kelone	µg/kg	<u> </u>	1		ND	ND AVD	ND
Styrene	µg/kg		1	<del>-</del>	ND	ND	ND
<sup>b</sup> Trichlaroethene	μg/kg	41	11	0	ND	ND	ND
Trichlorofluoromethane	µg/kg		1	<del>_</del>	ND	ND ND	ND
<sup>b</sup> Tetrachloroethene	µg/kg	57	1	0	ND	ND -	ND
Vinyl Acetate	µg∕kg		1	-	ND	ND	ND
Vinyl Chloride	pg/kg		1		ND	ND	ND
<sup>b</sup> Total Xylenes	µg/kg	4	1	0	ND	ND	ND
cis-1,2-Dichloroethene	μg/kg		1		ND	ND	ND
cis-1,3-Dichloropropene	µg/kg		1		ND	ND	ND
trans-1,2-Dichloroethene	рд/kg		1		ND ON	ND	ND
trans-1,3-Dichloropropene	ug/kg		1	_	ND.	ND	ND
SVOCs	in the second se	2000年第1日			ND	ND	ND
bis(2-Ethylhexyl)phthalate	pg/kg	<del>                                     </del>	1		ND ND	ND ND	ND ND
1,2,4-Trichlorobenzene	hð/kg _	·	·	<del> </del>	4		
1,2-Dichlorobenzone	μg/kg	13	1	0	ND ND	ND ND	ND UN
1,2-Diphenythydrazine	μg/kg	ļ <del>-</del>	1		ND ND		
1,3-Dichlorobenzene	pg/kg	<del> </del>	1 1	<u> </u>	ND	ND ND	ND
1,4-Dichlorobenzene	µg∕kg	110	1	0	ND ND	ND ND	ND ND
2,4-Dinitrotoluene	ug/kg	ļ <u> </u>	1		ND ND	ND	GN
2,6-Dinitrotoluene	ug/kg		1		ND ND	ND ND	ND ND

Table 4-6

# Summary of Sediment Quality Sampling Data Ballona Wetlands - Saltwater Prior to 1991

Parameter	Units	NOAA SQuiFIT Marine SedIment PELs *	Total Number of Samples	Total Number of Samples Over Guidance Values		All Data	
		1999			Minimum	Maximum	Mean
2-Nitroaniline	µg/kg		1		ND	ND	ND
3,3'-Dichlarobenzidine	µg/kg	_	1		ND	ND	ND
3-Nitroaniline	ug/kg		1		ND	ND	ND
4-Bromophenylphenylelher	µg∕kg		1		ND	ND	ND
4-Chloroaniline	µg/kg		11	<del></del>	ND	ND	NO
4-Nitroaniline	μg∕kg		1		ND	ND	ND
Acenaphthene	μg/kg	88.9	1	0	ND :	ND	ND
Acenaphthylene	µg/kg	127.87	1	0	ND	ND	ND
Aniline	pg/kg		1	0	ND	ND	ND ND
Anthracenc	μg/kg	245	t	0	NO	ND	ND ND
Benzidine	µg/kg		1		ND	ND ND	ND ND
Benz(a)anthracene	µg/kg	692.53	1	0	NĐ i		ND ND
Benzo(a)pyrene	μg/kg	763.22	11	0	ND	ND	
Benzo(b)fluoranthene	μg/kg	1900	1	0	ND	ND	ND
Benzo(g,h,i)perylene	pg/kg	670		Ü	ND	ND	NO
Benzo(k)fluoranthene	µg/kg	1800	1	0	ND	NĐ	ND
Butylbenzylphthalate	μg/kg	63	1	0	ND	ND	ND
Chrysene	μg/kg	845.98	1	0	ND	ND	ND
Di-n-octylphthalate	µg/kg	61	1	0	ND	ND	ND
Dibenz(a,h)anthracene	µg/kg	134.61	1	0	ND	ND	ND
Dibenzofuran	μg/kg		1	_	ND	ND	ND
Dibutylphthalate	[xj/kg	_	1		ND	ND	ND
<sup>6</sup> Diethylphthalate	pg/kg	6	1	0	ND	ND	ND
b Dimethylphlhalate	µg/kg	6	1	0	ND	ND	ПD
Fluoranthene	µg/kg	1493.54	1	0	ND ND	ND	ИÜ
Fluorene	ug/kg	144.35	1	o .	ND	ND	NĐ
Hexachiorobenzene	µg∕kg ``	6	1	0	ND	ИD	NĐ
<sup>b</sup> Hexachlorobutadiene	ру/кд	1.3	1	0	ND	МD	ND
Hexachlorocylclopentadience	μ <b>g</b> /kg		1	T -	ND	ND	ND
hexachloroethane	µg/kg	73	1	0	ND	ND	ND
b Indeno(1,2,3-c,d)pyrene	µg/kg	600	1	0	ND	ND	ND
Isophorene	µg/kg		i -		ND	ND	ND
N-Nitrosodimethylamine	µg/kg		1	<u> </u>	ND	ND	ND
h N-Nitrosodiphenytamine	µg/kg	28	1	0	ND	ND	NO
N-Nitrosodi-n-propylamine	µg/kg		3		ND	ND	ND
Nitrobenzene	pg/kg	<del> </del>	···· i		ND	ND	СИ
Naphthalene	µg/kg	390.64	1	0	NĐ.	ND	ND
Phenanthrene	μg/kg	543.53	1	0	ND	ND	ND
Pyrene	µg/kg	1397.6	1	0	ND	ND	ND
bis(2-Chloroethoxy)methane	µg/kg		1	<u> </u>	ND	ND	ND
bis(2-Chloroethyl)ether	µg/kg		1	-	ND	ND	ND
bis(2-Chloroisopropyl)ether	ua/ko		1		ND	ND	ND
Metals	F. 64 5 5 7 7	#-3# 1 ##4 2 Z	(\$# CT - \$#\$\\* -		- 40 · · · · · · · · · · · · · · · · · ·	4/25	HR. A. LONDON AND AND AND AND AND AND AND AND AND AN
Arsenic	mg/kg	41.6	1	0	2.5	2.5	2.5
Cadmium	mg/kg	4.21	† .	0	1.8	1,8	1.8
Chromium	mg/kg	160.4	1	0	10	10	10.0
Copper	mg/kg	108.2	1	0	29.5	39	34.3
Lead	mg/kg	112.18	1	0	79	79	79
Mercury	mg/kg	0.696	1	0	ND	ND	ND
Nickel	mg/kg	42.9	1	0	7	7	7.0
<sup>b</sup> Selenium	mg/kg	1	1	0	ND	ND	ND
Silver	mg/kg	1.77	1	0	0.4	0.4	0.40
Zinc	mg/kg	271	1	1	280	280	280

#### Summary of Sediment Quality Sampling Data Baltona Wetlands - Saltwater Prior to 1991

Parameter	Units	NOAA SQuiRT Marine Sediment PELs *	Total Number of Samples	Total Number of Samples Over Guidance Values		All Data	
	1	1999			Minimum	Maximum	Mean
Pesticides and PCBs	***	<b>建设建筑</b>	(	N. 44.00	7. The Part of	<b>\$1.45</b>	<b>一种多类的</b>
h Aldrin	µg/kg	9.5	1	0	ND 1	NO	ND
Dieldrin	µg∕kg	4.3	1	0	ND	ND	NĐ
Endosulfan !	µg/kg	-	1		ND	NĐ	ND
Endosulfan II	ug/kg	_	1		ND .	ND	, ND
Endosulfan Sulfate	µg/kg		1	_	ND	ND	NÐ
Endrin	µg/kg		1	<u> </u>	ND	ND	ND
Endrin aldehyde	µg/kg	_	11		ON	ND	ND ND
Heptachlor Epoxide	µд/кд		1		ΝĐ	ND	ND
<sup>b</sup> Heptachlor	μg/kg	0.3	1	0	NO.	ND	ND
Methoxychlor	µg/kg	_	1	_	QN.	ND	ND
PCB-1016	µд∕кд	188.79	1	0	ND	ND	ND
PCB-1221	μ <b>g/</b> kg	188.79	†	0	CIN	ÜN	ND
PCB-1232	µg∕kg	188.79	1	0	ND	ND	ND
PC9-1242	µg/kg	188.79	1	0	ND	ND	ND
PCB-1248	µg/kg	188.79	1	0	ND	ND	ND
PCB-1262	μg/kg	188.79	1	0	ŊĎ	ND	ND
Toxaphene	µg/kg	-	1	<del></del>	ND	ND	ND
alpha-BiHC	µg/kg		1		ND	ND	ND
gernma-BHC (lindane)	µg/kg	0.99	1	0	ND ND	ND	ND
beta-BHC	ug/kg	_	1	<del></del>	ND	ND	ND
delta-BHC	µg/kg		1		ND	ND	ND
P,P'-000	µg/kg		1	_	ND	ND	ND
P,P'-DDE	µ9/кд	374.17	1	0	ND	ND	ND
PCB-1254	µg/kg	188.79	1	Ó	, ND	ND	ND

#### Notes:

- - No Guidance Value

NA - Not Analyzed

ND - Not Detected

1990 WCC = 1990, November, Woodward-Clyde Consultants, Final Technical Appendix to the Master EIR. Table 5-2.

PEL - Probable Effects Level, level above which adverse effects are frequently expected

<sup>\*</sup>Buchman, M.F., 1999. NOAA Screening Quick Reference Tables, NOAA HAZMAT Report 99-1, Seattle, WA, Coastal Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12 pages.

<sup>&</sup>lt;sup>b</sup> Apparent Effects Threshold (AET) is used instead because PEt, is not listed

# Summary of Sediment Quality Sampling Centinela Ditch - Saltwater Prior to 1991

General  Oil & Grease  VOCs  1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropane 1,3-Dichloropane 1,4-Dichlorobenzene 1,4-Dichlorobenzene 2-Chloroethylvinylether 2-Hexonona Acetone Acrolein	ma/ka		Ť	Guidance Values	89	89	ND ND ND ND ND
Oil & Grease  VOCs  1,1,1-Trichizzoethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichioroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropane 1,2-Dichloropane 1,3-Dichloropane 1,4-Dichlorobenzene 2-Chloroethylvinylether 2-Hexariona Acelone Acroleln	hayka hayka hayka hayka hayka hayka hayka hayka hayka hayka hayka hayka		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		89 ND NO NO NO NO ND ND	89 ND ND ND NO NO NO NO	ND ND ND ND ND
Oil & Grease  VOCs  1,1,1-Trichizzoethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichioroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropane 1,2-Dichloropane 1,3-Dichloropane 1,4-Dichlorobenzene 2-Chloroethylvinylether 2-Hexariona Acelone Acroleln	hayka hayka hayka hayka hayka hayka hayka hayka hayka hayka hayka hayka		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		89 ND ND NO NO ND ND	ND ND ND ND ND ND	ND ND ND ND ND
VOCs 1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropenane 1,3-Dichloropenane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chloroethylvinylether 2-Hexanona Acelone Acroleln	hayka hayka hayka hayka hayka hayka hayka hayka hayka hayka hayka		1 1 1 1 1 1 1 1 1 1		ND NO NO ND ND ND	ND ND ND ND NO	ND ND ND ND ND
1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroenzane 1,3-Dichlorobenzane 1,4-Dichlorobenzane 2-Chloroethylvinylether 2-Hexanona Acetone Acrolein	hayka hayka hayka hayka hayka hayka hayka hayka hayka hayka		1 1 1 1 1 1 1 1 1 1		ND NO NO ND ND ND	ND ND ND ND NO	ND ND ND ND ND
1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropenzene 1,2-Dichloropenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chloroethylvinylether 2-Hexonone Acelone Acroleln	hayka hayka hayka hayka hayka hayka hayka hayka hayka hayka	——————————————————————————————————————	1 1 1 1 1 1 1		NO ND ND ND	00 00 00 00	ND ND ND
1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichloropropane 1,4-Dichlorobenzene 2-Chloroethylvinylether 2-Hexariona Acelone Acroleln	hayka hayka hayka hayka hayka hayka hayka hayka	——————————————————————————————————————	1 1 1 1 1 1 1		ND ND ND	ND NO ND	ND ND
1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chloroethylvinylether 2-Hexanona Acetone Acrotein	hayka hayka hayka hayka hayka hayka hayka	——————————————————————————————————————	1 1 1		ND ND	ND ND	ND
1,2-Dichlorgethane 1,2-Dichloropropane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chlorgethylvinylether 2-Hexonoma Acetone Acrolein	hayka hayka hayka hayka hayka hayka	——————————————————————————————————————	1 1 1		ND	ND	
1,2-Dichlorobenzene 1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chloroethylvinyleiher 2-Hexonona Acatone Acrolein	hayka hayka hayka hayka hayka	——————————————————————————————————————	1 1 1				ND
1,2-Dichloropropane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chloroethylvinyleither 2-Hexonone Acatone Acrolein	hayka hayka hayka hayka		1	<del>-</del>	[MI.)	• N/F3	ND
1,3-Dichlorobenzene 1,4-Dichlorobenzene 2-Chloroethylvinylether 2-Hexonono Acelone Acroleln	pg/kg pg/kg pg/kg pg/kg		1		ND	ND ND	ND
1,4-Dichlorobenzene 2-Chloroethylvinylether 2-Hexanona Acetone Acroleln	µg/kg µg/kg µg/kg				ND	ND ND	ND
2-Chloroethylvinylether 2-Hexanona Acetone Acrolein	pg/kg		, ,	<del></del>	D	ND ND	ND
2-Hexanona Acetone Acrolein	yg/kg		1		ND	ND	ND
Acetone Acrolein		<u>=</u>	1		ND	ND	ND
Acrolein			1	<del> </del>	ND	ND	NU
	μg/kg		<del>                                     </del>	<del></del> -	ND	ND	ND
Acrylonitrile	μg/kg		1		ND	ND	ND
Bromodichloromethane	pg/kg		1	<del>-</del>	ND	ND	ND
Bromomethane	pg/kg		1		NÜ	ND	ND
Benzene	µg/kg		1		ND	ND	ND
Bromoform	ug/kg		1		NO	ND	ND
Chlarabenzene	μg/kg		1		NO	ND	ND
Carbon Tetrachloride	pg/kg		1	<u> </u>	ND	NO	ND
Chloroethanii	μg/kg		1		ND	ND	ND.
Chloroform	μg/kg		,		ND	ND	ND
Chloromethane	µg/kg		1 1		ND	ND	ND
Carbon Disulade	pg/kg		1	<u> </u>	ND ND	ND	ND ND
Dibromochloromethane	pg/kg		1	<del>-</del>	ND ND	ND ND	
Ethylbenzene	µg/kg	4	1	· · · · · · · · · · · · · · · · · · ·	ND	ND NO	ND ND
Freon-113	µg/kg		1	<del> </del>	ND ND	ND ND	ND ND
Methyl Elfryl Kelone	μg/kg		1 1		ND ND	NO NO	ND.
Methyl Isobutyl ketone	μg/kg		1		ND ND	ND ND	ND
Methylene Chloride	µg/kg	<del></del>	1 1	<del></del>	ND ND	ND	ND
Styrene	µg/kg	41	1	0	ND ND	ND	ND
* Trichlargethene	µg/kg	41	1		ND	ND -	ND
Trichlorofluoromethane Toluene	µg/kg		1	<del> </del>	ND	ND	ND
	μg/kg	57	1 1	0	ND	ND	NO
* Tetrachioroethene	µg/kg ⋅		<del>                                     </del>	<del> </del>	ND.	ND	ND
Vinyl Acetate Vinyl Chloride	µg/kg µg/kg		<del> </del>		NO	ND	ND
		4	<del></del>	0	ND ND	ND	ND
* Total Xylenes cis-1,2-Dichloroethene	µg/kg		<del>                                     </del>	<del></del>	ND ND	- ND	ND ND
cis-1,2-Dichloropropene	µg/kg µg/kg		1	<del></del>	ND	NO	ND
trans-1,2-Dichloroethene	µg/kg		<del>                                     </del>	<del>-</del>	ND	ND	ND
trans-1,3-Dichloropropene	uo/kn		1	<u> </u>	ND	ND	ND
SVOCs			2	****		10.400 J. 150 T.	
1,2,4-Trichlorobenzene	μg/kg		1	-	ND	ND	DIA
<sup>5</sup> 1,2-Dichlorobenzene	µg/kg	13	1	0	ND	ND	GN
1,2-Diphenylhydrazine	µg/kg		1		NO	ND	ND
1,3-Dichlorobenzene	µg/kg		1		ND	ND	ND.
b 1,4-Dichlorobenzene	µg/kg	110	1	0	ND	ND	ND
2,4-Dinitrotoluene	µg/kg		1		ND	ND	ND
2,6-Dinitrotoluene	ng/kg		1		ND	ND	ND
2-Methytnaphthalene	μg/kg	T	1		ND	ND	ND
2-Nitroaniline	μg/kg		1		ND	ND	ND
3,3'-Dichlorobenzidine	μg/kg		1		ND	ND	ND_
3-Nitroauiline	µg/kg		1	<u> </u>	ND	ND	ND
4-Bromophenylphenylether	µg/kg		11		ND	ND	ND
4-Chioroaniline	pg/kg		1		ND_	ND	ND
4-Nitroaniline	µg/kg		1		UD NO	ND AID	ND
Acenaphthene	µg/kg	88.9	1	0	ND	ND_	ND ND
Acenaphthylene	μg/kg	127.87	1	0	ND	NO NO	ND ND
Aniline	μg/kg		1 1	<del></del>	ND ND	ND ND	ND ND
Anthracene	рд/кд	245	1 1	0	ND ND	ND NID	ND NO
Benzidine Benz(a)anthracene	µg/kg µg/kg	692.53	1 1	0	ND ND	ND ND	ND ND

Table 4-7

# Summary of Sediment Quality Sampling Centinela Ditch - Saltwater Prior to 1991

Parameter	Units	NOAA SQuiRT Marine Sediment	Total Number of	Total Number of Samples Over		Storm Drains	
	1	PELs "	Samples	Guidance Values	Adiadassan		Mean
		1999 763.22	1	0	Minimum ND	Maximum ND	ND
Benzo(a)pyrene	μg/kg	1800	1	0	ND	ND	ND
Benzo(b)fluoranthene	μg/kg μg/kg	670	·-····································	0	ND	ND ND	ND
Benzo(g,h,i)perylene Benzo(k)fluoranthene	µg/kg	1800	1	0	ND	ND	ND
Butylbonzylphthalate	µg/kg	63	1 .	0	ND	ND	ND
Chrysene	µg/kg	845.98	1	0	NO	ND	NĐ
Di-n-octy/phthalate	µg/kg	61	1	0	ND	ND	GN
Dibenz(a,h)anthracene	ид/ка	134.61	1	0	МÐ	ND	ND
Dibenzofuran	рд/кд		1		NÐ	ND	ND
Dibutylohthalate	µg/kg		. 1		ND	ND	ND
Diethylphthalate	μg/kg	6	1	0	ND	ND .	ND
Dimethylphthalate	μg/kg	6	1	0	ND	ND	, ND
Fluoranthene	μg∕kg	1493.54	1	0	ND	ND	ND
Fluorene	µg/kg	144.35	1	0	ND	ND	ND ND
Hexachlorobenzene	µg/kg	6	1	. 0	ND.	ND	NO ND
Hexachiorobutadiene	μg/kg	1.3	3	0	ND ND	ND NE	ND
Hexachlorocylclopentadience	µg/kg		1		ND	ND	NĐ
Hexachioroethane	μg/кg	73	1	.0	ND	ND	ND
Indeno(1,2,3-c,d)pyrene	µg/kg	600	1	0	ND	ND	ND
tsophorone	μg/kg		1		NO	ND ND	ND ND
N-Nitrosodimethylamine	μg/kg		1		ND ND	ND ND	ND ND
N-Nitrosodiphenylamine	µg/kg	28	1	0	ND ND	ND ND	ND ND
N-Nitrosodi-n-propytamine	µg/kg		1		ND ND	ND ND	ND
Nitrobenzene Naphthalene	μg/kg μg/kg	390.64	<del>                                     </del>	0	ND ND	ND	ND
Phenanthrene	µg/kg	543.53	<del>                                     </del>	0	ND	ND	ND
Pyrene	ug/kg	1397.6	ì	0	ND	ND	ND
bis(2-Chloroethoxy)methane	µg/kg		1		ND	GN	ND
bis(2-Chloroethyl)ether	μg/kg		1		ND	ИD	ND
bis(2-Chloroisopropyl)ether	µg/kg		1		ND	ND	NO
bis(2-Ethylhexyl)phthalate	μg/kg		1	-	Ви	ND	NO
Metals	CHICKSHOP POSS	Daniel Company			Annales II I I I I I I I I I I I I I I I I I		
Arsenic	mg/kg	41.6 4.21	1	0	2.85	2.85	2.85
Cadmium Chromium	mg/kg mg/kg	160.4	1	0	27.5	27.5	27.5
Copper	mg/kg	108.2	i	0	29.5	29.5	29.5
Lead	mg/kg	112.18	1	0	58	58	58
Mercury	mg/kg	0.696	1	Ü	ND	ND	ND
Nickel	mg/kg	42.8	1	0	9.5	9.5	9.5
<sup>b</sup> Selenium	mg/kg	1	1	0	ND	ND	ND
Silver	mg/kg	1.77	1	0	0.7	0.7	0.7
Zinc	mg/kg	271	1	0	160	160	160
Pesticides and PCBs			T	**************************************			
Aldrin	pg/kg	9.5	1	0	ND ND	ON CW	ND ND
Chlordane	pg/kg	4.79	1	0	ND ND	GN	GN
p.p'-000	µg/kg	7.91 374.17	1	0	ND ND	ND	ND ND
p.p'-DDE p.p'-DDT	µg/kg	4.77	1	- 6	ND ND	ND	ND
Dieldrin	µg/kg µg/kg	4.77	1	0	ND	ND	ND
Endosulfan I	µg/kg	4.3	1	<u> </u>	GN GN	ND	ND
Endosulfan II	ha/ka		<del>                                     </del>		ND	ND	ND
Endosulfan Sulfate	µg/kg		1		ND	ND	ND
Endrin	µg/kg		1		ND	ND	ND
Endrin aldehyde	µg/kg		1		ND	ND	ND
Heplachfor Epoxide	µд/кд		1		ND	ND	ND
<sup>6</sup> Heptachior	μg/kg	0.3	1	0	ND	ND	ND
Melhoxychlor	µg/kg	<u> </u>	1	<u> </u>	ND	ND	ND
Aroclor-1016	µg/kg	188.79	1	0	ND	ND ND	ND
	l µg/kg	188.79	ş	0	ND.	ND	ND
Aroclor-1221			3 "		] kirs	I KIP	
Aroctor-1232 Aroctor-1232 Aroctor-1242	µg/kg µg∕kg	188.79 188.79	1	0	ND ND	ND ND	ND ND

#### Summary of Sediment Quality Sampling Centinela Ditch - Saltwater Prior to 1991

Parameter	Units	NOAA SQuiRT Marine Sediment PELs "	Total Number of Samples	Total Number of Samples Over Guidance Values	Storm Drains		
		1999			Minimum	Maximum	Меап
Arocior-1254	µg/kg	188.79	1	0	ND	ВÐ	ND
Arocler-1260	µg/kg	188.79	1	O	ĞЙ	ND	ND
Aroclor-1262	μg/kg	188.79	1	0	ND	ND	NÖ
Toxaphene	μg/kg		1		ND	ND	ND
alpha-BHC	μg/kg		1		ND	ND	ND
beta-BHC	μg/kg		1		ND	ND	ND
delta-BHC	µд/кд		1		ND	ND	ND
gamma-BHC (lindane)	µg/kg	0.99	3	0	ND	ND	ПD

#### Notes:

- 0 Not Detected
- NA Not Analyzed
- ND Not Detected
- SD Storm Drain
- PEL Probable Effects Level, level above which adverse effects are frequently expected
- 1990 WCC = 1990, November 14. Wrodward-Clyde Consultants, Final Technical Appendix to the Master EtR. Table 5-2.
- \*Buchman, M.F., 1999. NOAA Screening Quick Reference Tables, NOAA RAZMAT Report 99-1, Seattle, WA, Coastal Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12 pages.
- <sup>b</sup> Apparent Effects Threshold (AET) is used instead because PEL is not listed
- \* Indicates exceets guidance values

#### **Summary of Water Quality Sampling** Dry Weather Data - Santa Monica Bay After 1991

		CTR			Total	Total			
Parameter	Units	Chronic	COP	COP	Number of	Number of		All Data	
	1	sw	Objectives	Chronic	Samples	Samples	1		
	i 1	Critoria		Toxicity		Over Criteria	Minimum	Maximum	Mean
General		uskiji je	100 to 1	W. 14 .*		P	A		on the second
Oil and Grease	mg/l		25	<u> </u>	l I	0	8	8	8
Total Coliform	MPN/100ml		1000		22	6	ND	16,000	1,330
Fecal Colitorm	MPN/100ml	_	200		22	6	ND	2,400	273
Entero Coccus	Col's/100ml		_		22		ND	500	28
Salinity	960		_		64	<u> </u>	25	33.57	33
Total Phosphorus	mg/l				1		0.17	0.17	0.17
Metals		**********	0.00 may 200	4 1 1 M 19 19 19		1966 (A) 1864	***	W 7	(A)
Dissolved Arsenic	нд/	36	32	19	i	0	ND	ND	ND
Dissolved Cadmium	1113/1	9.3	4	8	1	ļ o	ND	ND ND	ND
Dissolved Copper	μg/1	3.1	12	5	1	0	ND	ND	UП
Dissolved Lead	μα/	8.1	8	22	1	0	ND	ИÐ	ND
Dissolved Mercury	μg/1		0.16	0.4	1	0	ND	ND	ND
Dissolved Nicket	μg/1	8.2	20	48	1	1	10	10	10
Dissolved Zinc	ng/l	81	80	57	1	1	60	60	60
Pesticides and PCBs	100	****	4.00		**	4 4 4 A	112	Maria No.	245×32
Aldrin	μg/l	1.3	0.000022	<u> </u>	1 .	0	ND	ND	ND
Chlordane	Jug/4	0.004	0.000023	·	1 _	0	ND	ND	ND
Dietdrin	μg/1	0,0019	0.00004		1	0	NO	ND	NĐ
Endrin	μg/1	0.0023	0.004		1	0	ŪΜ	ND	NO
Toxaphene	<u> </u>	0.0002	0.0021	T -	1	0	ND	ND	ND
Heptachlor	j.g/l	0.0036	0.00072	I =	1	0	ND	МĐ	ND
Heptachlor Epoxide	μg/	0.0036		T	1		ND	ND	ND
O.P'-DDT	дд/І		0.00017		1	0	ND	ND	ND
P,P'-DDT	μα/Ι	0.001	0.00017		11	0	ND	ND	ND
PCB-1016	μ9/	0.03	0.000019		1 1	0	ND	ND	ND
PCB-1221	μg/1	0.03	0.000019		1	0	ND	ND	ND
PCB-1232	μg/i	0.03	0.000019		1	0	ND	ND	ND
PC8-1242	μg/l	0.03	0.000019		1	0	ND	ND	ND
PCB-1248	µg/l	0.03	0.000019	<del>-</del>	1	0	ND	ND	. NO
PCB-1254	μg/l	0.03	0.000019		1	0	NĐ	ND	ND
PCB-1260	μg/1	0.03	0.000019	T -	1	0	ND	ND	ND

#### Notes:

- -- No Criteria
- NA Not Analyzed
- ND Not Detected

1992 Chambers Group = 1993, March. Chambers Group, Inc. Companson of the Re-establishment of

Tidal Flow in the Ballona Wetland Through the Ballona Channel or Through the Marina Del Rey Entrance Channel. 1996-1997 ABCL - 1997, September 15. Aquatic Bioassay Consulting Lithoralory. The Marine Environment of Marina del Rey Harbor July 1996 - June 1997. COP Objectives = 1997. Catillomia State Water Resources Control Board. California Ocean Plan. Table B Water Quality Objectives. Daily Maximums for aquatic life

and 30-day Averages for human health.

COP Chronic Toxicity = 1997. California State Water Resources Control Board. California Ocean Plan. Table D Conservative Estimates of Chronic Toxicity. First CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California.

<sup>\*</sup>Criteria for hexavalent chromium was used for chromium

<sup>&</sup>lt;sup>b</sup>CTR critoria is from the acute saltwater criteria.

Table 4-9

Parameter	Units	CTR Chronic SW	Total Number of Samples	Total Number of Samples		Ali Data	
1		Criteria		Over Criteria	Minimum	Maximum	Mean
General	and the second second	\$6.97 A	THE AMERICAN	SAMON AND S	A MATERIAL SECTION	On he followed the second	
Cyanide	mg/t	1	1	. 0	0.0017	0,00†7 57	0.0017 9
Oit and Grease	лку/і		131		ND ND	ND ND	ND ND
TRPH	mg/l				ND ND	ND ND	ND
TPH - Gas MTBE	μg/l μg/l		<del>- i</del>	<u> </u>	ND	ND	ND
TPH - Dieset	mg/l		1		ND	NO	NÖ
Total Phenois	mg/l	=	1		0.0019	0.0019	0.0019
Tributyltin	дд/1		4		ND	ND I	ND
Total Coliform	MPN/100ml		13		ND	16000	3567 216
Fecal Coliform	MPN/100ml		13		ND ND	1300 280	28
Entero Coccus	MPN/100ml		11	<del></del> _	340	360	350
Calcium	mg/l	_=_	8	<del></del>	448	1350	862
Magnesium	mg/l mg/l		8	<u>-</u>	177	537	345
Potassium Sodium	mg/l		2	_	8100	8400	8250
Chloride	mg/l		12		7460	20,000	13375
Sulfate	mg/l		12		1130	2800	1820
Bicarbonate	mg/l		8		110	226	164
Carbonate	mg/l		8		ND	ND	ND
Hydroxide Alkalinity	mg/l		2		ND 100	ND *BD	ND 136
Alkalinity	mg/l		4		160	180 4200	175 3280
Hardness	mg/l		4	<u> </u>	2600	8.43	3280 8
pH_	su		28 4		7.84 ND	0.94	0.24
Ammonia	rng/l		4	<u> </u>	ND ND	ND ND	ND ND
NH3-N	mg/l mg/l	<del>-</del> -	22		ND ND	1.59	0.4
NH3+ NH4 Nitrate	mg/1		5		ND	3.9	2.7
Nitrale-N	mg/l		2	_	ND	ND	ΝÚ
Nitrite-N	mg/l		2	-	ND	ND	ND
TKN	mg/l	.—	В		ND	1.8	0.8
Total Inorganic Nitrogen	mg/l		2	<u> </u>	ND	ND	ND
Total Phosphate	mg/l	-	0	<u></u>	ND ND	1.8	8.2 0.17
Total Phosphorus	mg/l		14		ND ND	0.53 ND	ND ND
Orthophosphate	mg/l		8		ND	ND ND	#DIV/0!
Orthophosphorus	mg/l µmhos/cm		6	<del>_</del>	37000	52000	45170
Specific Conductance Total Dissolved Solids	mg/l		14		12000	35000	22603
Total Suspended Solids	mg/l		4		27	46	35
Volatile Suspended Solids	mg/l		- 4		ND	UND	ND
Dissolved Oxygen	mg/l	_	22		5.5	13.9	8.3
Volatile Solids	mg/l		8		2400	6500	4238
MBAS	mg/l		4		0.12	0.17	0.14
Total Organic Carbon	mg/l		8		1.2 ND	22 12	7
BOD	mg/l		26 8		85	1800	568
COD	mg/1	<del>_</del>	2		ND	110	55
Bromide Salinity	mg/l %6		24		21.09	33.5	30
Silica	<u>уло</u> µg/l		1		ND	ND	ND
Strontium 90	pci/l		1	— —	1.76	1.76	1.76
Immediate Oxygen Demand	mg/l		6	— <u> </u>	ND	ND	ND
Organic Nitrogen	mod.	<del></del>	6		1	6.7	2.8
Volatile Organics	And the state of the state of	AND THE PERSON NAMED IN	· 1000 · 原设建立	4-16- ARM	<b>编数</b> 为一个管理	6p 12 17-2-1	A STATE OF THE STA
Tetrachloroethene	μ <u>σ</u> /1		10	l	<u>l</u> ND	ND ND	I NO
Toluene	μg/l	200000	<u>†1</u>	0	DI	ND	ND
Methylene Chloride	<u>ид/</u>	1600	7	0	ND.	ND ND	ND ND
1,2-Dichloroethane	μg/l	99	7	0	ND ND	ND ND	ND ND
Chloroform	μg/l	470 —	7		ND ND	ND ND	ND ND
1,1,1-Trichloroethane Benzene	μg/l μg/l	71	<del></del>	0	ND	ND	ND ND
Ethylbenzene	μg/i	29000	7	0	ND	ND	ND
Chloromethane	μφ/)	_	6		ND	ND	ND
Bromomethane	μg/1		6		ND	ND	ND
Dichlorodifluoromethane	рул		6		ND	ND	NO
Vinyl Chloride	μg/l	525	- 6	0	ND	ND	NO
Chloroethane	μg/l		6		ND	NO	ND
Trichlorofluoromenthane	րց/		6		NO	ND	ND
1,1-Dichloroethene	μg/\		6	<u> </u>	ND	ND	ND
1,1-Dichloroethane	μg/1		6	<del>-</del> -	ND ND	ND ND	NI)
trans-1,2-Dichloroethene	μg/l	<del>                                     </del>	6		ND ND	ND ND	ND
Carbon Tetrachloride	µg/l	4.4	6	0	ND ND	, ND	ND GN
Bromodichloromethane	րց/i	39	6		ND ND	ND NO	ND ND
1,2-Dichloropropane			, 0	ı v	1 · · · · · · · · ·	1,10	1

Table 4-9

Parameter	Units	CTR Chronic SW	Total Number of Samples	Total Number of Samples	<u>,, _</u> .	All Data	- National Control of the Control of
		Criteria	•••••	Over Criteria	Minimum	Maximum	Mean
trans-1,3-Dichloropropene	μg/l		6		ND	ND	ND
Inchloroethene	μg/l		6		ND	ND	ND
Dibromochloromethane	μg/l	— ·	6		ND	ND	ND
1,1,2-Trichloroethane	μο/1	42	6	0	ND ND	ND	ND
cis-1,3-Dichloropropene	μg/t	1700	6	0	ND	ND	ND NO
2-Chloroethylvinylether	μg/1		6	<del></del>	ND	ND	ND ND
Bromoform	μαλ	360	6	0	NO_	ND ND	NO
1,1,2,2-Tetrachloroethane	ид/	11	6	0	ND ND	ND ND	ND ND
Chlorobenzene	μg/l	21000	6	0	ND ND	ND ND	ND
1,2-Dichlorobenzene	μ <b>9/</b> 1	17000	6		ND ND	ND ND	ND
1,3-Dichlorobenzene	μg/t	2600	6	0	ND ND	ND	ND
1,4-Dichlorobenzene	μ9/1	2600	6	<u> </u>	NO	NO	ND
Total Xylenes	hā\J		0		900282828		
Semi-Volatile Organics		A Light state - M. W. M. 1904.	4	.e. in satisfaction in the control of the control o	ND I	3.1	1
Naphthalene	μg/l	<u> </u>	4		ND ND	2.1	1
1,2,3-Trichloropropane	μ <u>σ/</u>	<del></del>	1		ND	ND	ND
4-Chloro-3-methylphenol	μg/\	400	1	0	ND	ND	ND
2-Chlorophenot	<u>µg/l</u>	790	1	0	ND	ND	ND
2,4-Dichlorophenol 2,4-Dimethylphenol	μg/l μg/l	2300	1	·····o	ND	ND	ND
2,4-Dinitrophenol	μ9/1	14000	i	0	ND	ND	ND
2-Methyl-4,6-dinitrophenol	µg/l	765	1	0	NO	ÜN	ND
2-Nitrophenol	μg/1		1		ND	ND	ND
4-Nilrophenol	μα/1		1		ND	ND	NÜ
Pentachlorophenol	пд/	8.2	1	0	ND	ND	NO
Phenol	μ9/	4600000	1	0	ND	ND	ON CAN
2,4,6-Trichlorophenol	ua/l	6.5	1	0	ND	ND	ND
Metals	16 CA	10 MART Colores	4 Jan. M. 11432	XXXXXXX	s Why Malife : "		(44)11 17 P. 1
Dissolved Aluminum	μg/l		2		NO I	ND	ND
Total Aluminum	μg/l		2		ΩИ	ND	ND ND
Total Antimony	μg/I		6		ND	ND	ND
Dissolved Arsenic	μg/l	36	8	0	ND	ND	ND
Total Arsenic	μgA		. 8	·	ND ND	ND	ДN GN
Dissolved Beryllium	μ <b>g/</b> i		2		ND	ND NE	ND ND
Total Beryllium	μ <b>g/</b> !		8		ND 0700	ND 3900	3800
Dissolved Boron	μg/l	<u> </u>	2		3700 3500	3700	3600
Total Boron	μg/l		2		ND ND	ND ND	ND ND
Dissolved Cadmium	μg/Ι	9.3	8	<u> </u>	NO	1.7	0.1
Total Cadmium	μ9/1	<u> </u>	· · · · · · · · · · · · · · · · · · ·	0	ND ND	4	ND
Dissolved Chromium*	μο/1	50	2		ND ND	7.05	1.09
Total Chromium	μα/!		12		ND ND	ND ND	ND
Total Chromium +6	μο/!	3.1	8	3	ND	120	18
Dissolved Copper	µg/l	3.1	8		ND ND	120	33
Total Copper Dissolved Iron	μg/l		8		ND ND	1470	438
		<del> </del>	2		320	490	405
Total Iron Dissolved Lead	μ <b>ο</b> Λ	8.1	8	0	NO :	ND	ND
Total Lead	<u>μφι</u>	<del></del>	8				
				l —	CN	55	27
L DISSOIVEG MADITADESA			8	<u> </u>	ND ND	55 120	27 31
Dissolved Manganese Total Manganese	μο/1		<u> </u>			120 ND	31 ND
Total Mangariese	μg/۱		8		ND ND ND	120 ND ND	31 ND ND
Total Manganese Dissolved Mercury	μg/l μg/l		8 2		ND ND ND ND	120 ND ND ND 0.35	31 ND ND 0.09
Total Mangarese	րշչյ եշչյ եշչյ	- -	8 2 8		ND ND ND ND ND	120 ND ND 0.35 ND	31 ND ND 0.09
Total Manganese Dissolved Mercury Total Mercury	μg/l μg/l		8 2 8 8 8		ND ND ND ND ND	120 ND ND ND 0.35 ND	31 ND ND 0.09 ND
Total Manganese Dissolved Mercury Total Mercury Dissolved Nickel	իքս Մըգ Մըգ Մըգ		8 2 8 8 8		ND ND ND ND ND ND ND	120 ND ND 0.35 ND ND	31 ND ND ND 0.09 ND ND 415
Total Manganese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel	րջդ Մըգ Մըգ Մըդ Մըդ		8 2 6 8 8 8 2 9		010 N/D N/D N/D N/D N/O 390 N/O	120 ND ND 0.35 ND ND ND 440 460	31 ND ND 0.09 ND ND ND 415
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver	րջպ Մջպ Մջպ Մջպ Մջպ Մջպ Մջպ		8 2 8 8 8 8 2 9		ND ND ND ND ND NO 390 NO	120 ND ND 0.35 ND ND 440 460 ND	31 ND ND 0.09 ND ND 415 102 ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium	րջպ Իջպ Իջպ Իջպ Իջպ Իջպ		8 2 8 8 8 8 2 9 2		ND ND ND ND ND NO 390 NO NO	120 ND ND 0.35 ND ND 440 460 ND	31 ND ND 0.09 ND ND 415 102 ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Total Silver Total Silver Dissolved Total Silver	rgh Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu	8.2 	8 8 8 8 9 2 9 2 8		ND N	120 ND ND 0.35 ND ND 440 460 ND ND	31 ND ND 0.09 ND ND 415 102 ND ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Total Silver Total Silver Dissolved Thallium Total Thallium	rgn Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu		8 8 8 8 8 2 8 2 8 2 8		ND N	120 ND ND 0.35 ND ND 440 460 ND ND ND	31 ND ND 0.09 NO ND 415 102 ND ND ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Total Silver Total Silver Dissolved Thallium Total Thallium Dissolved Zinc	rgh Pgu Pgu Pgu Ngu Pgu Pgu Pgu Pgu Pgu Pgu Pgu		8 8 8 8 9 2 8 2 8 2 8 2 8		ND ND ND ND ND ND NO NO NO ND ND ND	120 ND ND ND 0.35 ND ND 440 460 ND ND ND ND ND	31 ND ND 0.09 ND ND 415 102 ND ND ND ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Total Silver Dissolved Traffium Total Thallium Total Zinc	Pgu Tgu Tgu Tgu Tgu Pgu Pgu Pgu Pgu Tgu Tgu	8.2 	8 8 8 8 8 9 2 9 2 8 2 8 8		ND ND ND ND ND ND 390 NO ND ND ND ND	120 ND ND 0.35 ND ND 440 460 ND ND ND ND ND	31 ND ND 0.09 ND ND 415 102 ND ND ND ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Total Silver Total Silver Dissolved Thallium Total Thallium Dissolved Zinc	Hgh	8.2 	8 2 8 8 8 2 8 2 8 2 8 2 8 2 8 8 2 8 8 2 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8		ND ND ND ND ND ND ND ND ND ND ND ND ND N	120 ND ND 0.35 ND ND 440 460 ND ND ND ND ND ND	31 ND ND 0.09 ND ND 415 102 ND ND ND ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Total Silver Dissolved Thallium Total Thallium Dissolved Zinc Total Zinc Pesticidus* beta-BHC	Len Len Len Len Len Len Len Len Len Len	8.2 	8 8 8 8 8 8 9 2 9 2 8 2 8 8 2 8 8 7		ND N	120 ND ND 0.35 ND ND 440 460 ND ND ND ND ND	31 ND ND 0.09 ND ND 415 102 ND ND ND ND ND
Total Manganese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Total Silver Total Silver Dissolved Thallium Total Thallium Dissolved Zinc Total Zinc Pesticulus Bell C	rgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu F	8.2 	8 8 8 8 8 8 9 2 8 2 8 2 8 8 2 7		ND N	120 ND	31 ND ND 0.09 ND ND 415 102 ND ND ND ND ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Total Silver Total Silver Total Silver Total Total Silver Total Total Total Total Total Zinc Pesticidus beta-BHC delta-BHC O,P-DDD	Lon Lon Lon Lon Lon Lon Lon Lon Lon Lon	8.2 	8 8 8 8 8 8 2 8 2 8 2 8 2 8 8 7 1		ND N	120 ND	31 ND ND 0.09 ND ND 415 102 ND ND ND ND ND ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Total Silver Total Silver Total Silver Total Total Total Traffium Dissolved Targlium Total Traffium Dissolved Zinc Total Zinc Pesticidus b beta-BHC delta-BHC O, P-DDD P, P-DDD	Pen Pen Pen Pen Pen Pen Pen Pen Pen Pen	8.2 	8 8 8 8 8 8 2 8 2 8 2 8 2 8 7 1 7 7		ND N	120 ND	31 ND ND 0.09 NO ND ND ND ND ND ND ND ND ND ND ND ND ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Total Silver Dissolved Thallium Dissolved Thallium Dissolved Zinc Total Zinc Pesticidus* beta-BHC delta-BHC delta-BHC O,P'-DDD P,P'-DDD O,P'-DDE	LEM LEM LEM LEM LEM LEM LEM LEM LEM LEM	8.2 	8 8 8 8 8 8 2 9 2 8 2 8 8 7 1 1		ND N	120 ND ND ND 0.35 ND ND 440 460 ND	31 ND ND 0.09 ND ND 415 102 ND ND ND ND ND ND ND ND ND ND ND ND ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Dissolved Thaffium Total Thaffium Total Thaffium Dissolved Iznc Total Thaffium Oissolved Iznc Total Thaffium Dissolved Iznc Pesticidus Sebeta-BHC O,P-DDD O,P-DDD P,P-DDD P,P-DDD	Pgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu F	8.2 	8 8 8 8 8 8 8 2 9 2 8 2 8 2 8 7 1 7 7		ND N	120 ND ND ND 0.35 ND ND 440 460 ND	31 ND ND 0.09 ND ND 415 102 ND ND ND ND ND ND ND ND ND ND ND ND ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Total Silver Dissolved Thallium Total Thallium Dissolved Zinc Total Zinc Pesticides beta-BHC delta-BHC O,P-DDD P,P-DDD P,P-DDE P,P-DDE Total Pesticides	Pgu	8.2 	8 8 8 8 8 8 9 2 8 2 8 2 8 8 2 7 1 7 7 7		ND N	120 ND	31 ND ND 0.09 ND ND 415 102 ND ND ND ND ND ND ND ND ND ND ND ND ND
Total Mangarese Dissolved Mercury Total Mercury Dissolved Nickel Total Nickel Dissolved Selenium Total Selenium Dissolved Silver Dissolved Thallium Dissolved Thallium Total Thallium Dissolved Zinc Total Zinc Pesticidus* beta-BHC delta-BHC O,P-DDD P,P-DDD P,P-DDD P,P-DDE P,P-DDE	Pgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu Fgu F	8.2 	8 8 8 8 8 8 8 2 9 2 8 2 8 2 8 7 1 7 7		ND N	120 ND ND ND 0.35 ND ND 440 460 ND	31 ND ND 0.09 ND ND 415 102 ND ND ND ND ND ND ND ND ND ND ND ND ND

# Summary of Water Quality Sampling Dry Weather Data - Ballona Channel - Saltwater After 1991

Parameter	Units	CTR Chronic SW	Total Number of Samples	Total Number of Samples		All Data	
i		Criteria		Over Criteria	Minimum	Maximum	Mean
PCB-1232	μg/1	0.03	6	0	ND	ND	NĎ
PCB-1242	IKQ/I	0.03	6	0	מא	ND	ИD
PC8-1248	μg/l	0.03	6	0	ND	ND	ND
PCB-1260	μς/1	0.03	6	0	ND	ND	ND
PCB-1254	μg/Ι	0.03	7	0	ND	ND	ND
Total Chlorinated Hydrocarbons	μ <u>ο</u> /1	_	6	_	ND	ND _	ND
Aldrin	μο/1	0.00014	6	0	ND	ND	ND
alpha-BHC	μg/1	0.013	6	0	ND	ND	ND
Lindane	μg/1	0.063	6	0	ND	ND	NΩ
Chiordane	μg/1	0.004	6	0	ND	ND	NO
Dieldrin	µg/l	0,0019	6	0	ND	ND	ND
Endrin	ду/і	0.0023	6	Ú	ND	ND	ND
Toxaphene	μgЛ	0.0002	6	0	ND	ND	ND
Heptachlor	μΩ∕І	0.0036	6	0	ND	ND	ND
Heptachlor Epoxide	μg/\	0.0036	6	Ü	ND	ND	ND
O.P'-DDT	μg/Ι	<del>-</del>	6		ND	ND	ND
P.P'-DDT	μgЛ	0.001	6	O	ND	ND	ND

#### Notes:

- - No Criteria

NA - Not Analyzed

ND - Not Detected

1991 Chambers = 1993, March. Chambers Group, Inc. Comparison of the Re-establishment of Fidal Flow in the Ballona Wetlands Through the Ballona Channel or Through the Marina Del Rey Entranco Channel. The Chambers 1993 Report does not indicate whether the metals values reported are dissolved or total. Here they are assumed to represent dissolved metals concentrations.

1996-1997 ABCL = 1997, September 15. Aquatic Bioassay Consulting Laboratory. The Marine Environment of Marina del Rey Harbor July 1996 - June 1997.

1996-1998 CDM = 1996, August 14. Camp Dresser & McKee. Ballona Creek Water and Sediment Quality Sediment Quality Report, 1995/1996, Wet Weather Season, Playa Vista, California and 1998, October. Camp Dresser & McKee. Playa Vista Area & Wetlands Surface Water and Sediment Monitoring Report.

Final CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Priority Toxic Pollutinits for the State of California.

\*Criteria for hexavalent chromium was used for chromium

<sup>b</sup>CTR criteria are from human health organisms only criteria, except for PCBs, Chlordane, Toxaphene, Heptachlor, and P.F.-DDT.

Parameter	Units	CTH Chronle SW	Total Number of Samples	Total Number of Samples		All Data	
		Criteria		Over Criteria	Minimum	Meximum	Mean
General	936	100	3000	100 H40 F			70 <b>16</b> 07
Oil & Grease	mgA		4	0	0.33	0.62	0.49
Total Coliform	MPN/100ml		5	0	ND	ND	ND
Fecal Coliform	MPN/100ml		5	0	ND	ND	ΝŌ
Dissolved Calcium	mg/l	_	1	0	370	370	370
Total Calcium	mg/l		5	0	310	990	476
Dissolved Magnesium	mg/l		1	0	1000	1000	1000
Total Magnesium	mg/l		5	0	950	2700	1342
	mg/l		1	0	350	350	350
Dissolved Potassium	<u> </u>		5	0	330	930	462
Total Potassium	mg/l			0	8400	8400	8400
Dissolved Sodium	mg/l		1			23000	11520
Total Sodium	mg/t	<u> </u>	5	0	8500		
Bicarbonate	mg/)		11		100	100	100
Carbonate	mg/l		1		96	96	96
Hydroxide Alkalinity	mg/l		5		ND	ND	ND
Chloride	mg/l		5		15000	40000	21200
Sulfate	mg/l		5		2200	7500	3600
			4	· · · · · · · · · · · · · · · · · · ·	140	260	175
Total Alkalinity	mg/l			<del></del>	140	260	175
Bicarbonate Alkalinity	mg/l		4	- <del> </del>	ND	16	4
Carbonate Alkalinity	mg/l		4	<del></del>			6028
Hardness	mg/l		6	<del></del>	620	14000	
Hα	su		4		8.13	8.42	8.25
Ammonia-N	mg/l		5		MD	0.2	0.06
Nitrate-N	rrxy/I		5		ND	ND	NĐ
Nitrite-N	mg/l		5		- ND	ND	ND:
		.,	5		1.1	3.4	2.36
TKN	mg/l		1		ND ND	ND	ND ND
Total Inorganic Nitrogen	mg/l		1 419	ļ	49000	130000	70500
Specific Conductance	µmhos/cm	<u> </u>	4				
Total Phosphorus	mg/t		5	<u></u>	0.044	0.66	0.31
Orthophosphate	mg/l		5	<u> </u>	ND	ND	ND
Total Dissolved Solids	mg/i	_	5		28000	78000	39400
Total Suspended Solids	mg/l		5		28	310	85.80
Total Volatile Solids	mg/l		5		3400	9000	4960
Total Organic Carbon	mg/l		7	<del>-</del>	2.9	67	15.33
			5	·	1.4	75.9	23.44
BOD	rng/l			<del></del>	430	2000	804.00
COD	mg/l		5	<del></del>	60	190	98.20
Bromide	<u>i ng/l</u>		5	<del></del>			
Salinity	960	· . <del></del>	5	<u> </u>	31	79	42.80
i-lydrogen Sulfide	mg/l		2	<u> </u>	ND	ND	ND
Cyanido	mg/l		4		ND	ND	ND
TPH-Recoverable	mg/l	-	3		ND	0.46	0.15
TPH-Extractable	mgA		4	T	ND	0.14	0.07
TPH-Volatile (C4-C12)	mg/l		4		ND	24	8.38
			4		ND	ND	ND
Total Phenols	mg/l		4		3.9	92	27.85
Turbidity	mg/l					7/2/2000/00/00/00/20	200000000000000000000000000000000000000
VOCs*		. 3 <del>/4</del> * (2.77)					
1,1,1,2-Tetrachloroethane	j pg/l		4		ND	NÚ	ND
1,1,1-Trichtoroethane	μgΛ		. 4		ND	ND	ND
1,1,2,2-Tetrachloroethane	μg/	11	-1	0	ND	ND	ND
1,1,2-Trichloro-1,2,2-triRuoro-			4	_	ND	NO	ND
1,1,2-Trichloroethane	µg/l	42	4	0	ND	ND	ND
1,1-Dichloroethane			4		ND	ND	ND
	µg/l	3.2	4	0	ND	ND	ND
1,1-Dichloroethene	μg∕1		A . w			ND	ND
1,1-Dichloropropene	μ <u>α</u> /1		4		ND		
1,2,3-Trichlorobenzene	μgЛ		4		ND	ND	ND
1,2,4-Trichlorobenzona	μg/Ι	_	4	<u> </u>	ND	ND	ND
1,2,4-1 nmethylbenzene	μς/1		4		ND	ND	ND
1,2-Dibromo-3-chioropropane			4	-	ND	ND	ND
1,2-Dibromoethane	μg/Ι	_	4		ОИ	ND	ND
1,2-Dichlorgethane	μg/l	99	4	0	ND	ND	ND
	1 227		4		ND	ND	ND
1,2-Dichlorobenzene	μ <b>g/</b> î		4	-	ND	ND	ND ND
	µg/l	39	4			<u> </u>	
1,2-Dichloropropane			4	·-	ND ND	NO	ND
1,3-Dichlorobenzene	μg/l			i	ND	ND	ND
			4				
1,3-Dichlorobenzene	μg/l		4		ND_	ND	ND
1,3-Dichlorobenzene 1,3-Dichloropropane 1,3,5-Trimethylbenzene	ид/) ид/)						ND
1,3-Dichlorobenzene 1,3-Dichloropropane 1,3,5-Trimethylbenzene 1,4-Dichlorobenzene	нду Нау Нау	—	4	<del></del>	ND_	ND	
1,3-Dichlorobenzene 1,3-Dichloropropane 1,3,5-Trimethylbenzene 1,4-Dichlorobenzene 2,2-Dichloropropane	րց/ ից/ ից/ հեր/ հեր/ հեր/ հեր/ հեր/ հեր/ հեր/ հեր		4 4		ND ND ND	ND ND ND	ND ND
1,3-Dichlorobenzene 1,3-Dichloropropane 1,3,5-Trimethylbenzene 1,4-Dichlorobenzene 2,2-Dichloropropane 2-Butanone	րց/ բց/ բց/ բց/ բց/ բց/	——————————————————————————————————————	4 4		ND ND ND ND	ND ND ND	ND ND ND
1,3-Dichlorobenzene 1,3-Dichloropropane 1,3,5-Trimettylbenzene 1,4-Dichlorobenzene 2,2-Dichloropropane 2-Butanone 2-Chlorololuene	իջդ Իջդ Իջդ Իջդ Իջդ		4 4 4		OND OND ON ON ON	ND ND ND ND	ND ND ND
1,3-Dichlorobenzene 1,3-Dichloropropane 1,3,5-Trimethylbenzene 1,4-Dichlorobenzene 2,2-Dichloropropane 2-Butanone 2-Chlorololuene 2-Hexanone	ւնդ Մարդ Մարդ Մարդ Մարդ Մարդ Մարդ Մարդ Մար		4 4 4 4 4 4		ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND
1,3-Dichlorobenzene 1,3-Dichloropropane 1,3,5-Trimettylbenzene 1,4-Dichlorobenzene 2,2-Dichloropropane 2-Butanone 2-Chlorololuene	իջդ Իջդ Իջդ Իջդ Իջդ		4 4 4		OND OND ON ON ON	ND ND ND ND	ND ND ND

Bromodichloromethane Bromochloromethane Bromochloromethane Bromomelhane Bromomelhane Benzene* Bromomelhane Benzene* Bromolorm Chlorodibromomethane Chlorodenzene Carbon Tetrachloride Chloroform Chloromethane Chloromethane Chloromethane Dibromomethane Dibromomethane Ethylbenzene Hexachlorobutadiene Isopropylienzene Methyl isobutyl ketone m.p.Xylene Methylene Chloride Methyl-tert-butyl-ether Naphalons n-Butylbenzene p-Isopropylloluene o-Xylene sec-Butylbenzene tert-Butylbenzene tert-Butylbenzene Ethylbenzene styrene	тем мен мен мен мен мен мен мен м	Criteria	4 1 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Over Criteria	Minimum ND	Maximum   ND   ND   ND   ND   ND   ND   ND   N	Mean   NO
Bromochloromethane Bromobenzene Bromomethane Benzene <sup>a</sup> Benzene <sup>a</sup> Benzene <sup>a</sup> Bromolorm Chlorodibromomethane Chlorodenzene Carbon Tetrachloride Chloroterm Chloroform Chloroterm Dichlorotifitumomethane Ethylbenzene Hexachlorobutadiene Isopropytienzene Methyl Isobutyl ketone m.p-Xylene Methyl-tert-buyl-ether Napthalors n-Butylbenzene p-Isopropytluluene o-Xylene sec-Butylbenzene tert-Butylbenzene tert-Butylbenzene	inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty inty		1 4 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 	ND ND ND ND ND ND ND ND ND ND ND ND ND	NO N	ND ND ND 0.12 ND ND ND ND ND ND ND ND ND ND ND ND ND
Bromobenzene Bromomelhane Berzene* Bromolom Chlorodibromomethane Chlorodibromomethane Chlorodibromomethane Chlorodibromomethane Chloroform Chloromethane Chloroform Chloromethane Chlorodiflumomethane Dichlorodiflumomethane Blhytbenzene Hexachlorobutadiene Isopropytienzene Methyl Isobutyl ketone m.p.Xylene Methyl-tert-butyl-ether Naphaloris n-Butylbenzene p-Isopropytiluluene n-Propytibenzene p-Isopropytiluluene o-Xylene sec-Butylbenzene tert-Butylbenzene tert-Butylbenzene	йду Нау Нау Нау Нау Нау Нау Нау На		4 4 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 	ND ND ND ND ND ND ND ND ND ND ND	NO ND 0.71 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND 0.12 ND ND ND ND 0.16 0.65 ND ND
Bromomethane Benzene* Bromotorm Chlorobenzene Carbon Tetrachloride Chlorotenzene Carbon Tetrachloride Chlorotenzene Carbon Obsuffide Dibromomethane Dichlorodifluoromethane Ethylbenzene Hexachlorobutadiene Isopropylbenzene Methyl Isobutyl ketone m,p-Xylene Methyl-tert-butyl-ether Naphaloros n-Butylbenzene p-Isopropylbutuene o-Xylene sec-Butylbenzene tert-Butylbenzene tert-Butylbenzene	Hay Hay Hay Hay Hay Hay Hay Hay Hay Hay	71 360 34 21000 4.4 ————————————————————————————————	4 6 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 	ND N	ND 0.71 ND	ND 0.12 ND ND ND ND 0.16 0.65 ND ND
Benzene* Bromolorm Chlorodibromomethane Chlorodenzene Carbon Tetrachloride Chlorotethane Chlorotethane Chloromethane Carbon Disuffide Dibromomethane Dibromomethane Dichlorodifluoromethane Ethylbenzene Hexachlorobutadiene Isopropylbenzene Methyl isobutyl ketone m.p-Xylene Methyl-tert-butyl-ether Napthaloros n-Butylbenzene p-Isopropylbutene p-Isopropylbutene p-Isopropylbutene o-Xylene sec-Butylbenzene tert-Butylbenzene	йй Май Май Май Май Май Май Май М	71 360 34 21000 4.4 ————————————————————————————————	6 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 0 0 	ND ND ND ND ND ND ND ND ND ND ND	0.71 ND ND ND ND ND ND ND ND 0.35 2.6 ND ND	0.12 ND ND ND NO ND ND 0.16 0.65 ND
Bromotom Chlorodibromomethane Chlorodibromomethane Chlorobenzene Carbon Tetrachloride Chlorotethane Chloroform Chloromethane Carbon Disuffide Dibromomethane Dichlorodiflumomethane Ethylbenzene Hexachlorobuadiene Isopropylbenzene Methyl Isobutyl ketone m.p-Xylene Methyl-tert-butyl-ether Napthaloms n-Butylbenzene p-Isopropylbutene p-Isopropylbutene p-Isopropyllutuene o-Xylene sec-Butylbenzene tert-Butylbenzene	100 100 100 100 100 100 100 100	360 34 21000 4.4 	4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 0 	ND ND ND ND ND ND ND ND ND ND	ND N	ND ND ND ND ND ND 0.16 0.65 ND
Chlorodibromomethane Chlorobenzene Carbon Tetrachloride Chlorotorm Chlorotorm Chloromethane Carbon Disulfide Dibromomethane Dichlorodiflumromethane Ethylbenzene Hexachlorobutadiene Isopropylbenzene Methyl Isobutyl ketone m.p.Xylene Methylene Chloride Methyl-tert-butyl-ether Naphialone n-Butylbenzene p-Isopropylluluene p-Sylene sec-Butylbenzene sec-Butylbenzene tert-Butylbenzene	irth hay hay hay hay hay hay hay hay hay ha	34 21000 4.4 ————————————————————————————————	4 4 4 4 4 4 4 4 4 4 4 4	0 0 0 	ND ND ND ND ND ND ND ND ND	ND N	ND ND ND ND ND 0.16 0.65 ND
Chlorodibromomethane Chlorobenzene Carbon Tetrachloride Chlorotorm Chlorotorm Chloromethane Carbon Disulfide Dibromomethane Dichlorodiflumromethane Ethylbenzene Hexachlorobutadiene Isopropylbenzene Methyl Isobutyl ketone m.p.Xylene Methylene Chloride Methyl-tert-butyl-ether Naphialone n-Butylbenzene p-Isopropylluluene p-Sylene sec-Butylbenzene sec-Butylbenzene tert-Butylbenzene	irth hay hay hay hay hay hay hay hay hay ha	21000 4.4 	4 4 4 4 4 4 4 4 4 4	0 0 	NO ND ND ND ND ND ND ND	ND ND ND ND 0.35 2.6 ND ND	ND ND ND ND 0.16 0.65 ND
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Carbon Tetrachloride Chlorotorm Chlorotorm Chloromethane Carbon Disulfide Dibromomethane Dichlorodiflumomethane Ethylbenzene Hexachlorobutatiene Isopropythenzene Methyl Isobutyl ketone m.pXylene Methyl-tert-butyl-ether Napthalom: n-Butylbenzene p-Isopropythuluene p-Sopropythuluene o-Xylene sec-Butylbenzene tert-Butylbenzene	145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V 145V	29000	4 4 4 4 4 4 4 4		ND ND ND ND ND ND ND	ND ND 0.35 2.6 ND ND	ND ND 0.16 0.65 ND
Chloroethane Chloroform Chloromethane Carbon Disulfide Dibromomethane Dichlorodifluoromethane Ethylbenzene Hexachlorobutadiene Isopropytienzene Methyl Isobutyl ketone m.p-Xylene Methyl-tert-butyl-ether Napthalore n-Butylbenzene p-Isopropytiluluene o-Xylene sec-Butylbenzene tert-Butylbenzene lert-Butylbenzene	144 144 145 145 145 145 145 145	29000	4 4 4 4 4 4 4		ND ND ND ND ND	ND 0.35 2.6 NO ND ND	0.16 0.65 ND
Chloroform Chloromethane Carbon Disulfide Dibromomethane Dichlorodifluoromethane Ethylbenzene Hexachlorobutadiene Isopropylbenzene Methyl Isobutyl ketone m.p-Xylene Methyl-tert-butyl-ether Napthalone n-Butylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene tert-Butylbenzene	1124 124 124 124 124 124 124 124	29000 — — —	4 4 4 4 4 4 4		ND ND ND ND	0.35 2.6 NO ND ND	0.16 0.65 ND ND
Chloromethane Carbon Disulfide Dibromomethane Dichlorodifluoromethane Ethylbenzene Hexachlorobutadiene Isopropylibenzene Methyl Isobutyl ketone m.pXylene Methylene Chloride Methylene Chloride Methyletert-butyl-ether Naphalone n-Propylibenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene	htty htty htty htty htty htty htty htty	29000 — — —	4 4 4 4 4 4		ND ND ND ND	0.35 2.6 NO ND ND	0.16 0.65 ND ND
Carbon Disulfide Dibromomethane Dichlorodifluoromethane Elhylbenzene Hexachlorobutadiene Isopropylibenzene Methyl Isobutyl ketone m.pXylene Methylene Chloride Methylene Chloride Methylene Chloride Methylene Chloride Naphtalons n-Butylbenzene n-Propylibenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene	hgu Ngu Ngu Ngu Ngu Ngu Ngu Ngu Ngu	29000 — — —	4 4 4 4 4 4	0	ND ND ND ND	2.6 NO ND ND	0.65 ND ND
Dibromomethane Dichlorodiflumomethane Ethylbenzene Hexachiorobutadiene Isopropythenzene Methyl Isobutyl ketone m.p-Xylene Methylene Chloride Methyl-tert-butyl-ether Napthalone n-Butylbenzene n-Fropylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene	ինու Մետ Մետ Մետ Մետ Մետ Մետ Մետ Մետ Մետ Մետ	29000 — — — —	4 4 4 4	0	ND ND ND	ND ND ND	ND ND
Dichlorodifluoromethane Ethylbenzene Hexachlorobutadiene Isopropytienzene Methyl Isobutyl ketone m.p-Xylene Methyl-ten-Chloride Methyl-ten-butyl-ether Napthaloms n-Butylbenzene p-Isopropytluluene o-Xylene sec-Butylbenzene tert-Butylbenzene	ինո Մետ Մետ Մետ Մետ Մետ Մետ Մետ	29000 — — — —	4 4 4	0	ND ND	ND ND	ND
Ethylbenzene Hexachlorobutadiene Isopropythenzene Methyl isobutyl ketone m.p-Xylene Methylene Chloride Methyl-tert-butyl-ether Napthalone n-Butylbenzene n-Propylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene	1434 1454 1454 1454 1454 1454	<u>-</u> - - -	4 4 4	0	ND	ND	
Hexachlorobutadiene Isopropyltenzene Methyl Isobutyl ketone m.p-Xylene Methylene Chloride Napthalone n-Butylbenzene n-Fropylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene lert-Butylbenzene	тоу гоу гоу гоу гоу гоу гоу гоу	<u>-</u> - - -	4				IND
Isopropythenzene Methyl Isobutyl ketone m.pXylene Methylene Chloride Methyl-tert-butyl-ether Napithalane n-Butylbenzene n-Propythenzene p-Isopropytluluene a-Xylene sec-Butylbenzene tert-Butylbenzene	եւնչ Ինֆ Ինֆչ Ինֆչ		4	<u> </u>	F Lan	t Mrs I	ND
Methyl Isobutyl ketone m.p-Xylene Methyl-tene Chloride Methyl-tener-butyl-ether Naphtalons: n-Butylbenzene n-Propylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tent-Butylbenzene	նգչ րգչ լեգչ լեգչ					ND	
m.p-Xylene Methyl-tert-butyl-ether Napthalom: n-Butylbenzene n-Fropylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene	ինչի Մահյ Մահյ		4		ND	ND	ND
Methylene Chloride Methyl-tert-butyl-ether Napthalone n-Butylbenzene n-Propylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene	μ <b>ο/</b> 1 μο/1				ND	ND	ND
Methylene Chloride Methyl-tert-butyl-ether Napthalone n-Butylbenzene n-Propylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene	μ <b>ο/</b> 1 μο/1		4		ND	0.2	0.05
Methyl-tert-butyl-ether Napthalone n-Butylbenzene n-Propylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene	րդ/1		4		ND	ND	ND
Naphalone n-Butylbenzene n-Propylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene		1600	6	0	ND	0,28	0.05
n-Butylbenzene n-Propylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene			4		ND	ND	ND
n-Propylbenzene p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene	μg/Ι		4		ND	ND	ND
p-Isopropylluluene o-Xylene sec-Butylbenzene tert-Butylbenzene	дул		4		ND	CIN	ND
o-Xylene sec-Butylbenzene tert-Butylbenzene	<u>μg/i</u>		4		ND	0.57	0.14
sec-Butylbenzene tert-Butylbenzene			4	<del></del>	ND	ND	ND
tert-Bulylbenzene	<u>μg/1</u>		4	<del> </del>	ND	ND	ND
	<u>μg/l</u>		4		ND	ND I	ND
Stirrene	<u>l</u> vg/l			<del></del>	ND ND	ND.	NO.
	<u>1/9/1</u>		4			ND ND	NO
Trichloroethene	μ <u>ο</u> /1	81	4	0	ND ND		
Trichlorofluoromethane	μg//		.4		ND	ND	ND
Totuene <sup>a</sup>	μ9/1	200000	6	0	ND	0.15	0.05
Tetrachioroethene	μg/l	8.85	4	0	ND	CM C	ND
Vinyl Acetate	μg/l	<del>-</del>	4	_	ND	ND .	ND
Vinyi Chloride	μgÆ	525	4	0	ND	ND	ND
Total Xylenes	μg/l		4		ND	0.2	0.05
cis-1,2-Dichloroethene	μg/		4	1 -	ND	ND	ND
cis-1,3-Dichloropropene	µg/l	_	4		ND	ND	ND
Irans-1,2-Dichloroethene	μg/l		4	· · · · <u>:</u>	ND	ND	ND
trans-1,3-Dichloropropene			4	<del> </del>	ND	ND	ND
	цсу/		1		ND	ND	ND
Other VOCs	μg/I		i i i i i i i i i i i i i i i i i i i				
		#7014/1/1957/		CONTRACTOR			
1,2,4-Trichlorobrazene	μg∕l		4		ND ND	ND	ND
1,2-Dichlorobenzene	μg/l	17000	4	0	ND	ND	ND
1,2-Diphenylhydrazine	μg/1		4		ND	ND	ND
1.3-Dichlorobenzene	μg/l	2600	4	Ö	ND	ND	: ND
1,4-Dichlorobenzene	µg/l	2600	4	0	ON	ND	ND
2,4,5-Trichlorophenol	μg/l		4	_	ND	ND	ND
2.4.6-Trichlorophenol	иди ид/I		4		NÐ	ND	ND
2,4-Dichlorophenol	μg/l	790	4	0	ND	ND	ND
		2300	4	0	ND ND	ND	ND
2,4-Dimethylphenol	<u> </u>			0	ND ND	ND ND	NO
2,4 Dinitrophenol	μα⁄!	14000	4		ND ND	ND	ND
2,4-Dinitrotoluene	μg/ <del>!</del>		4	<del>-</del>			
2,6-Dinitrotoluene	μΩΛ		4	<u> </u>	ND	NO	ND
2-Chloronaphthalene	μ <b>g/</b> 1	4300	4	0	ND	ND	ND
2-Chlorophenol	μg/l		4		ND	ND	ND
2-Methylnaphthalene	ng/l		4	<u> </u>	ND	ND	ND
2-Methylphenol	μg/l		4	<u> </u>	ND	ND	ND
2-Naphthylamine	μg/l		4		NO	ND	ND
2-Nitroaniline	ду/		4		ND	ND	ND
2-Nitrophenol	<u>нул</u> µg/t	_	4		ND	ND	ND
3,3'-Dichlorobenzidine	μο/	0.077	4	0	ND	ND	ND
			4		ND ND	ND	ND
3/4-Methylphenol	μ <u>α</u> /ξ			<u> </u>	ND	ND	- NO
3-Nitroaniline	μg/î - ^		4	<del></del>			
2,6-Dinitro-2-Methylphenol	μ <b>g/</b> 1		4	·	ND	NO.	ND
4-Bromophenylphenylether	μ <b>g/</b> l		4		ND	ND	ND
2-Chloro-3-Methylphenol	μց/Ι		4	.  <u>-</u>	ND_	ND	ND
4-Chloroandine	μανί		4	-	ND	ND	ND
4-Chlorophenylphenylether	μ <b>g/</b> l		4		ND	ND	ND
4-Nitroaniline	μg/l		4	<u> </u>	ND	ND	ND

Table 4-10

Parameter	Units	CTR Chronic SW	Total Number of Samples	Total Number of Samples		All Data	
		Criteria		Over Criteria	Minimum	Maximum	Mean
Acenaphthene	μg/l	2700	4	0	ND	ND	ND
Acenaphthylene	μg∕і		4		ND	ND	ND ND
Andine	μg/1		4		NO	ND	ND
Anthracene	μg/l	110000	4	0	ND	ND	ND
Benzidine	μg/l		4	_	ND	ND_	ND
Benzo(a)anthracene	μg/l	0.049	4	0	ND	NO.	ND
Benzo(a)pyrene	μgЛ	0.049	4	0	ND	NO.	ND
Benzo(b)fluoranthene	μgЛ	0.049	4	0	ND	ND	ND
Benzo(g,h,i)perylene	μg/1		4	_	ND	ND	ND
Benzo(k)fluoranthene	μg/i	0.049	. 4	0	ND	ND	ND
Benzoic Acid	μg/l .		4		ND	ND	ND
Benzyl Alcohol (phenylmethar	μg/l	_	4	l	ND	ND	ND
bis(2-Chloroethoxy)methane	μg/l		4	<del></del>	ND	ND	ND
bis(2-Chloroethyl)ether	да/І	1.4	4	0	ND	ND	ND
bis(2-Chloroisopropyl)ether	μg/l	170000	4	0	ND	ND	ND
bis(2-Ethylhexyl)phthalate	μg/l	5.9	4	Ö	ND	ND	ИD
Butylbenzylphlhaiate	μα	5200	4	0	ND	ND	ND
Chrysene	μ <b>g</b> /1	0.049	4	o o	ND	ND	ND
Di-n-octylphthalate	349/1		4	<del> </del>	ND	ND	ND
Dibonzo(a,h)anthracene	μg/l	0.049	4	0	ND	ND	, ND
Dibenzofuran	<u>дул</u> µg/l		4		ND	ND	ND
		12000	4	0	NĐ	ND	ND
Di-n-butylphthalate	μο/1	120000	4	0	ND	ND ND	ND
Diethylphthalate	μg/l		4	<del>                                     </del>	ND ND	NO	ND
Dimethylphthalate	μg/;	2900000		1 0	ND ND	ND	ND
Fluoranthene	#g/l	370	4				
Fluorene	μ <b>g/</b> l	14000	4	0	ND_	ND ND	ND ND
Hexachlorobenzene	рід/	0.00077	4	0	ND	ND	
Hexachlorobutadiune	μgЛ	50	4	0	ND	ND	ND
Hexachlorocylclopentadiene	μg/Ι	17000	4	0	ND	ND	ND
Hexachloroethane	119/1	8.9	4	0	NO	ND	ND
Indeno(1,2,3-c,d)pyrene	μg/i	0.049	4	0	ND	ND	ND
Isophorone	μg/1	600	1	0	ND	ND	ND
N-Nitrosodimethylamine	μg/1	9.1	4	Ö	ND	ND	ND
N-Nitrosodiphenylamine	μ <b>g/</b> 1	16	4	0	ND	ND	ND
N-Nitrosodi-n-propylamine	μg/1	1.4	4	0	ND	ND	ИD
Nitrobenzene	μg/l	1900	4	0	ND	ND	NO
Phenanthrene	пдЛ	_	4	<del></del>	ND	ND	ND
Руггие	μg/1	11000	4	0	ND	ND	ND
Phenol	un/A	_	4	<del>1 -</del> -	NO	ND	ND
Metals	931 - SAN		266	4-8/4	4 <b>E</b>	ke water	
Dissolved Aluminum	μg/l	—	1		ND	NO	ND
Total Aluminum	μg/l		5	<del>-</del>	ND	3.1	0.74
Dissolved Antimony	μg/1		6	-	0.41	2	0.66
Total Antimony		<del></del>	6		0.57	1.7	0.70
Dissolved Arsenic	<u>μg/l</u>	36	. 7	1	4.26	66	17.93
Total Arsenic	μg/l		<del> </del>		2.1	59	15.18
	hāv.	<del></del> -		· · · · · · · · · · · · · · · · · · ·	35.5	73.1	54.30
Dissolved Barium	μ9/1	<del></del>		<del></del>	41.2	79.7	60.4
Total Barium	11g/l	<u> </u>	2	<del></del>	ND	ND ND	ND
Dissolved Beryllium	μg/l		7			ND ON	
Total Beryllium	ha/	<del></del>	7	<del></del>	ND	<del></del>	ND
Dissolved Boron	нал		1		4000	4000	400X
Total Boron	μgЛ	<u> </u>	5		3.9	4100	825
Dissolved Cadmium	μg⁄Л	9.3	7	0	ND	0.11	0.03
Total Cadmium	μgΛ		7	<u> </u>	ND	0.49	0.11
Dissolved Chromium <sup>b</sup>	μg/1	50	7	0	ND	3.3	0.60
Total Chromium	μg/1	_	7		1.07	8.7	2.57
Total Chromium +6	μg/l	<del> </del>	1		ND	ND	ND
Dissolved Cobalt	<u>μ</u> g/1		2		ND	ND	ND
Total Cobalt	μg/l	<del>+ _</del> -	2		ND	ND	ND
Dissolved Copper		3.1	7	Ĝ.	5.06	20	9.59
	μ <u>α</u> Λ		7		22.3	50.6	18.2
Total Copper	μg/l				ND	ND	ND
Dissolved fron	μg/Ι	<del>-</del>	1	<del>                                     </del>		180	37
Total Iron	μ <u>αν</u> 1	<del> </del>	5	<del></del>	0.19		
Dissolved Lead	µg/1	8.1	7	0	1.2	2.91	0.65
	μg/I	1	7	<u> </u>	2.01	12	3.51
Total Lead	μg/I	T	11	<u> </u>	ND	NO	ND
Dissolved Manganese			5		0.027	19	4.03
	μдЛ						I NICS
Dissolved Manganese		<del>                                     </del>	7		ND	UN	ND
Dissolved Manganese Total Manganese	μg/l μg/l				ND	ND	ND
Dissolved Manganese Total Manganese Dissolved Mercury Total Mercury	µgЛ µgЛ		7				ND
Dissolved Manganese Total Manganese Dissolved Mercury	μg/l μg/l	<b>–</b>	7		ND	ND	

Table 4-10

Parameter	Units	CTR Chronic SW	Total Number of Samples	Total Number of Samples		All Data	
		Criteria	oup.ca	Over Criteria	Minimum	Maximum	Меап
Total Nickel	μд/		7	_	3.69	13	4.43
Dissolved Selenium	ид/	71	7	1	8.1	270	55.59
Total Selenium	руд		7		6.59	260	58.01
Dissolved Silver	μg/l		7	_	ND	0.12	0.02
Total Silver	μg/Ι		7	_	ND	0.31	0.04
Dissolved Thallium	пд/		7		ND	0.75	0.19
Total Tradium	μgΛ		7	-	ND	0.76	0.11
Disselved Vanadium	μgΛ		2		4.39	4.47	4.43
Total Vanadium	μg/I	_	2 "		5.1	9.24	6.57
Dissolved Zooc	ug/l	81	7	0	14	48	26,01
l'otal Zinc			7		11	72.9	28.66
esticides	- Sept	ni wakazi ka 200	1. A. B. W.	- S. J. F	1000	Anna Called	
4,4'-DDD"	μ <b>g/</b> l	0.00084	4	0	ND	NO	ND
4.4'-DDE"	μg/s	0.00059	4	0	ND	ND	ND
4,4*-DDT	μg/i	0.001	4	0	ND	ND	ND
Aldrin <sup>¢</sup>	μg/I	1.3	4	0	ND	ND	ND
alpha-BHC <sup>a</sup>		0.013	4	2	ND	0.045	0.02
Enlordane	μg/l μg/l	0.004	4	0	ND	ND	ND
delta-BHC	<u>иди</u>	0.004	4		ND	ND	ND
Dieldrin		0.0019	<del></del> 4	0	ND	ND	ND
	µg/l	0.0015	4		ND ND	ND	ND
Endosulfan I Endosulfan II	11g/l		4		ND	ND	NO
		240	4	Ð	ND	ND	ND
Endosulfan Sulfate*	μg/1		4	0	ND ND	ND	ND
Endrin	μg/\	0.0023	·	0	ND ND	ND	ND
Endrin aldehyde*	μg/]	0.81	4-	<u> </u>	ND ND	ND	ND
gamma-BHC (lindane)	10/l		4	0	H ND	NO	ND
Heptachlor Epoxide	μ9/1	0.0036	4	0	UNU	ND	ND
Heptachlor	<u>μg/l</u>	0.0036	4		ND	ND	ND.
Methoxychlor	μg/\				ND	ND ND	ND
PCH-1016	μg/	0.03	4	<del>                                    </del>	ND	ND	ND
PCB-1221	<u> </u>	0.03	4	0	ND ND	ND	ND
PCB-1232	µg/l	0.03	4	<del> </del>	ND	ND	ND
PCB-1242	μg/I	0.03	4	0	ND	ND ND	ND
PCB-1248	μg/l	0.03	4	, <u>, , , , , , , , , , , , , , , , , , </u>	ND ND	NO	ND
PCB-1254 PCB-1260	μ <u>α/</u>	0.03	4	+ <u>0</u> -	ND	ND ND	ND
		0.03	4	0	ND	ND ND	ПD
PCHs	μg/t		4	<del> </del>	ND	ND	ND
Azinphos-Methyl	319/1	<del></del>	4		ND	ND	ND
Bolstar	<u>µg/l</u>	<del> </del>	4	<del></del>	ND ND	ND	ND
Chloropynfos	<u>μg/l</u>	<u> </u>	4	\	ND	ND	ND
Cuomafos Demetori	μg/I		4	<del> </del>	ND ND	ND.	ND
Demetori Diazinon	μοΛ	<del> </del> =	4	<del>                                     </del>	ND	ND	NO
Dichloryos	μg/l	<del> </del>	4		NO	ND	ND
Disulfoton	<del></del>	<del> </del>	4 4		ND ND	ND	ND
	μg/l μg/l	<del>                                     </del>	4	<del>                                     </del>	ND	ND	ND
Ethoprop Fensulfothion	нди иди	<del></del>	4		ND ND	ND	ND
Fention	μο/1	<del></del>	4	+ <u>-</u>	ND	ND	ND
Merphos	μg/	<del> </del>	4	<del></del>	ND.	NO	ND
Methyl Parathion		<del>                                     </del>	<del> </del>	+	ND	ND	ND
Metnyr Paratnion Mevionphos (Phosdrin)	μg/1 μg/1	<del></del>	4		ND	ND	ND

#### **Summary of Water Quality Sampling** Dry Weather Data - Ballona Wetlands - Saltwater After 1991

Parameter	Units	CTR Chronic SW	Total Number of Samples	Total Number of Samples		All Data	
	ļ	Criteria		Over Criteria	Minimum	Maximum	Mean
Naled	μg/1		4	-	ND	ND	ND
Phorate	μg/1		- 4		ND	ND	ND
Prothectos	μg/l		4		ND	ND	ND
Honnel	μα/		4		ND	ND	ND
Tetrachlorvinphos	<u>μg/</u>		4		ND	ND	NO
Trichioronale	μα⁄i		4		ND	ND	ФИ

#### Notes:

- - No Criteria

NA - Not Analyzed

ND - Not Detected

ND - Not Detected

1998 CDM = 1998, October. Camp Dresser & McKee. Playa Vista Area A and Area B Wetlands Surface Water and Sediment Monitoring Report.

2002 CDM = 2002, August 2. Camp Dresser & McKee. Bailona Wetlands Water Quality Sampling, Dry Weather, Playa Vista, California.

2000 GS = 2000. GcuSyntec Consultants. Data.

Final CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California.

\*CTR Criteria are from human health organisms only criteria.

<sup>b</sup>Hexavalent chromium criteria is used for chromium.

\*CTR criteria is from the acute saltwater criteria.

**Table 4-11** 

# Summary of Water Quality Sampling Dry Weather Data - Freshwater Marsh After 1991

1		. ,	Total	Total			
Parameter	Units	CTR Chronic <sup>a</sup>	Number of	Number of		All Data	
		FW Criteria	Samples	Samples Over	4		r
	ACTIVATE OF CONTRACTOR OF A TAXABLE OF CONTRACTOR OF CONTR			Guidance Values		Maximum	Mean
General	MPN/100 ml	_	3	— + (5-1)	5.2	52.6	31
Enterococci Fecal Coliforms	MPN/100 ml		3		2	8	5
Total Coliforms	MPN/100 ml		3		13	23	10
Bicarbonate Alkalinity (as CaCO <sub>3</sub> )	mq/l		3	-	42	143	81
Carbonate Alkalinity (as CaCO <sub>3</sub> )	m <sub>i</sub> /I	<u> </u>	3	-	GN	30	17
Hydroxide Alkalinity (as CaCO <sub>3</sub> )	Ngm	· <del></del>	3	_	NĐ	ND	ND
Total Alkalinity (as CaCO <sub>3</sub> )	mg/l		3		72	143	98
Total Dissolved Solids	mg/l		3		392	520	435
Total Suspended Solids	mg/l		6		ND	39	21
Total Settleable Solids	mg/l		4		ND	ND	NĐ
Turbidity	NTU	-	3		25.5	32.7	28
Salinity	g/l		3		19 ND	27	23.3
Residual Chlorine	mg/1		<u>6</u>		ND	ND 2	ND
Total Cyanide Sulfides	mg/l mg/l		3		ND	0.0038	0.0013
Hardness	mg/l		3		ND	0.034	0
pH	Su	_ `	6		156	800	453.3
Total Phenols	mg/l		3		8.16	8.26	8
BOD	mg/l		3		ND ND	ND	ND 3.50
MBAS	mg/l		3		ND 32	11 34	2.50 33
TPH-Vofatile	mg/l		3		0.19	0.22	0.20
Oil and Grease TOC	mg/l		3	<del></del>	ND ND	ND	ND
Chemical Oxygen Demand	Ngm		3		ND	ND	ND
TPH-Extractable	rng/l		6		ND	22	10
TPH-Recoverable (TRPH)	mg/l		6		ND	0.44	0
Апутюніа	mg/l		3		0.02 ND	0,43 ND	0.16 ND
Nitrate	mg/l	<del>  =</del>	3		NO	NO	ND ND
Nitrite Orthophosphate	mg/l	<del>                                     </del>	3		ND	NO.	ND
TKN	mg/l	-	3		0.37	0.72	0.59
Total Phosphorus	rng/l	-	3		0.15	0.64	0.41
Dissolved Sodium	mg/l		3		75.9	76.8	76
Total Sodium	mg/l		3		89.5	106	95
VOCs			6	_	ND	ND	ND
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	μg/l	·			1	110	
	l uo/l	I	1 6		ND	ND	ND
	µg/l µg/l	11	6	ļ	ND ND	ND ND	ND
1,1,2,2-Tetrachioroethane	µд∕1	11 -	6 8 3	0	<del></del>		
1,1,2,2-Tetrachioroethane 1,1,2-Trichloro-1,2,2-trifluoroethane	hā/J	11	6	0	ND	ND	ND
° 1,1,2,2-Tetrachioroethane 1,1,2-Trichloro-1,2,2-trifluoroethane ° 1,1,2-Trichloroethane	hō\ hō\ hō\	11	<u>6</u>	0 -	ND ND	ND ND	ND ND
1,1,2,2-Tetrachioroethane 1,1,2-Trichloro-1,2,2-trifluoroethane	hā/J	11 — 42	6 3 6	0 -	ND ND ND	ND ND ND ND	ND ND ND ND
1,1,2,2-Tetrachioroethane     1,1,2-Trichloro-1,2,2-trifluoroethane     1,1,2-Trichloroethane     1,1-Dichloroethane	hãy hãy lưh hãy	11 — 42 —	6 3 6 6 6	0  0  0	ND ND ND ND ND ND	ND ND ND ND ND	ND ND ND ND NO
1,1,2,2-Tetrachioroethane 1,1,2-Trichloro-1,2,2-trifluoroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloroethene 1,2,3-Trichloroethene	hôy hôy hốy hốy hốy hiếy	11 	6 3 6 6 6 6	0 	ND NO NO ND ND ND	NO ND NO ND ND ND	ND ND ND ND NO NO
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1,2-Trichloroethane 1,1-Dichloroethane  * 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane	hay hay hay hay hay hay hay hay	11  42  3.2 	6 3 6 6 6 6 6 6 3	0 	ND ND ND ND ND ND ND ND	NO ND NO ND ND ND ND	ND ND ND NO
1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,1-Dichloropropene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene	hay hay hay hay hay hay hay hay	11  42  3.2   	6 6 6 6 6 6 6 3	0 	ND NO NO ND ND ND	NO ND NO ND ND ND	ND ND ND ND NO NO
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane * 1,1-Dichloroethane 1,1-Dichloroethane * 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichlorobenzene 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene	hdy hdy hdy hdy hdy hdy hdy hdy	11 	6 3 6 6 6 6 6 6 3	0 	ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND	00 00 00 00 00 00 00 00 00
* 1,1,2,2-Tetrachioroethane 1,1,2-Trichloro-1,2,2-trifluoroethane * 1,1,2-Trichloroethane 1,1-Dichloroethane * 1,1-Dichloroethane 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane	PgH PyH PgH PgH PgH PgH PgH PgH PgH PgH PgH Pg	11  42  3.2   	6 6 6 6 6 6 3 6	0 	ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND	ND ND ND ND NO NO NO NO NO NO NO
* 1,1,2,2-Tetrachioroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromoethane	hay hay hay hay hay hay hay hay hay hay	11 	6 6 6 6 6 6 3 6 6	0 	ND ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND NO NO NO NO NO NO NO
* 1,1,2,2-Tetrachioroethane 1,1,2-Trichloro-1,2,2-trifluoroethane * 1,1,2-Trichloroethane 1,1-Dichloroethane * 1,1-Dichloroethane 1,1-Dichloropropene 1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane	PgH PyH PgH PgH PgH PgH PgH PgH PgH PgH PgH Pg	11 	6 6 6 6 6 6 3 6 6 6 6	0 	ND ND ND ND ND ND ND ND ND ND ND	ND ND ND ND ND ND ND ND ND ND	ND ND ND ND NO NO NO NO NO NO NO NO
* 1,1,2,2-Tetrachioroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloroethane 1,2,4-Trichloroethane 1,2,4-Trichloroethane 1,2,4-Trimethylbenzene 1,2,2-Dibromoethane  * 1,2-Dibromoethane	hay hay hay hay hay hay hay hay hay hay	11 	6 6 6 6 6 6 3 6 6 6 6 6 6 6 6 6 6 6 6 6	0 	ND N	ND N	ND ND ND ND NO NO NO NO NO NO NO NO NO NO NO NO NO
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromo-s-chloropropane 1,2-Dibromoethane  * 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorobenzene	hôy hây hây hây hây hây hây hây hây hây hâ	11  42  3.2          -	6 6 6 6 6 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 	ND NO NO NO ND	NO NO NO ND	ND ND ND ND NO NO NO NO NO ND ND ND ND ND ND
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromo-3-chloropropane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene	hay hay hay hay hay hay hay hay hay hay	11 	6 6 6 6 6 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0	ND N	ND N	ND ND ND NO
* 1,1,2,2-Tetrachioroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloropropane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromo-3-chloropropane 1,2-Dichloroethane  * 1,2-Dichloroethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichloropropane 1,3-Dichloropropane 1,3,5-Trimethylbenzene	hay hay hay hay hay hay hay hay hay hay	11 	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0	ND N	ND N	ND N
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloroethane 1,2,4-Trichloroethane 1,2,4-Trichloroethane 1,2-Dibromo-1,2-Dibromo-1,2-Dibromo-1,2-Dibromo-1,2-Dibromo-1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane	h3y h3y h3y h3y h3y h3y h3y h3y h3y h3y	11	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 	ND N	ND N	ND ND ND ND ND NO NO NO NO ND ND ND ND ND ND ND ND
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2-Dibromo-ethane 1,2-Dibromo-ethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Trimethylbenzene 1,3-Trimethylbenzene 1,3-Dichloropropane 1,3,5-Trimethylbenzene 2,2-Dichloropropane	hōy hōy hōy hōy hōy hōy hōy hōy hōy hōy	11 	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 	ND N	ND N	ND ND ND ND NO NO NO NO NO ND ND ND ND ND ND ND ND
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloropropane 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromo-3-chloropropane 1,2-Dichloroethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichloropropane 1,3-Trimethylbenzene 1,3-Dichlorobenzene 2,2-Dichloropropane 1,4-Dichlorobenzene 2,2-Dichlorobenzene 2,2-Dichlorobenzene 2,2-Dichloropropane 2-Butanone	hôy hôy hôy hôy hôy hôy hôy hôy hôy hôy	11 	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 	ND N	ND N	ND N
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloropropane 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromo-3-chloropropane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,4-Dichlorobenzene 2,2-Dichloropropane 2,2-Dichloropropane 2-Butanone 2-Chloroethyl-viryl-other	hôy hôy hôy hôy hôy hôy hôy hôy hôy hôy	11 	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 	ND N	ND N	ND N
* 1,1,2,2-Tetrachioroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloropropane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2-Dibromo-8-chloropropane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Trimethylbenzene 2,2-Dichloropropane 2-Butanone 2-Chloroethyl-vinyl other 2-Chlorotoluene	hôy hôy hôy hôy hôy hôy hôy hôy hôy hôy	11 	6 6 6 6 6 3 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0	ND N	NO N	ND N
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloropropane 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromo-3-chloropropane 1,2-Dichloroethane  * 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,4-Dichlorobenzene 2,2-Dichloropropane 2,2-Dichloropropane 2,2-Dichloropropane 2-Butanone 2-Chloroethyl-viryl-other	hôy hôy hôy hôy hôy hôy hôy hôy hôy hôy	11 42 3.2 99 1700 39 2600 2500	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 	ND N	ND N	ND N
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloroethane 1,2,3-Trichloroethane 1,2,4-Trichloroethane 1,2,4-Trichloroethane 1,2-Dibromo-1,2-Dibromo-1,2-Dibromo-1,2-Dibromo-1,2-Dibromo-1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 2,2-Dichloropropane 1,4-Dichloroethane 2,2-Dichloropropane 2-Butanone 2-Chloroethyl-viryl other 2-Chlorotoluene 2-Hexanone	hay hay hay hay hay hay hay hay hay hay	111	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 	ND N	ND N	ND N
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichlorobenzene 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2-Dibromo-ethane 1,2-Dibromo-ethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Trimethylbenzene 1,3-Trimethylbenzene 2,2-Dichloropropane 2-Butanone 2-Chloroethyl-viryl other 2-Chlorotoluene 4-Chlorotoluene	hôy hôy hôy hôy hôy hôy hôy hôy hôy hôy	111	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0	00 ND	ND N	ND   ND   ND   ND   ND   ND   ND   ND
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane * 1,1-Dichloroethane * 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloropropane 1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2,4-Trichlorobenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromo-3-chloropropane 1,2-Dichloroethane * 1,2-Dichloroethane * 1,2-Dichloroethane * 1,2-Dichlorobenzene * 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Trimethylbenzene 1,3-Trimethylbenzene 2,2-Dichloropropane 2,2-Dichloropropane 2-Butanone 2-Chloroethyl-vinyl other 2-Chlorotohuene 4-Chlorotohuene 4-Chlorotohuene 4-Chlorotohuene 4-Chlorotohuene 4-Chlorotohuene 4-Chlorotohuene 4-Chlorotohuene 4-Chlorotohuene	hay hay hay hay hay hay hay hay hay hay	111	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0	ND N	NO N	ND N
* 1,1,2,2-Tetrachloroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloropropane 1,2,3-Trichloropropane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibrumo-3-chloropropane 1,2-Dibrumo-3-chloropropane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichlorobenzene 1,3-Dichlorobenzene 2,2-Dichloropropane 1,3,5-Trimethylbenzene 2,2-Dichloropropane 2,2-Dichloropropane 2-Butanone 2-Chloroethyl-vinyl other 2-Chlorotoluene 2-Hexanone 4-Chlorotoluene Acetone Acrylonitrile Bromodichloromethane	h3y h3y h3y h3y h3y h3y h3y h3y h3y h3y	11	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0	ND N	ND N	ND N
* 1,1,2,2-Tetrachioroethane 1,1,2-Trichloro-1,2,2-trifluoroethane  * 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,3-Trichloropropane 1,2,3-Trichloropropane 1,2,4-Trimethylbenzene 1,2-Dibromo-3-chloropropane 1,2-Dibromo-3-chloropropane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 1,3-Dichloropropane 2,2-Dichloropropane 2,2-Dichloropropane 2-Butanone 2-Chloroethyl-vinyl other 2-Chlorotoluene 2-Hexanone 4-Chlorotoluene 4-Chlorotoluene 4-Acrolicia * Acrolician * Acrolician	hay hay hay hay hay hay hay hay hay hay	111	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0	ND N	NO N	ND N

Table 4-11

# Summary of Water Quality Sampling Dry Weather Data - Freshwater Marsh After 1991

	[	CTR Chronic	Total Number of	Total Number of		All Data	
Parameter	Units	FW Criteria	Samples	Samples Over		7	
	1 1	rii Cincella	Samp.es	Guldance Values	Minimum	Maximum	Mean
5 Benzone	µg/l	71	6	0	ND	ND	ND
© Bromoform	μg/1	360	6	0	ND	ND	ND
Chlorodibromomethane	µg/l	34	5	0	ND	GN	GN
Chlorobenzene	μg/1	21000	6	0	ND	ND	ND
Carbon Tetrachloride	µg/1	4.4	6	0	ND	ND	ND
Chloroethane	pg/l		6		NO	ND ND	ND ND
Chloroform	<u>  1/9/l</u>		6		ND ND	ND ND	ND ND
Chloromethane	μg/1		6 3		ND	ND -	NO
Carbon Disulfide Dibromomethane	μg/l μg/l		6		ND	ND	NĐ
Dichlorodifluxromethane	ug/\		6		ND	ND	ND
© Ethylbenzene	µg/l	29000	6	0	ND	NĐ	ND
Hexachlorobutadiene	µg/l		6		ND	ND_	ND
Isopropylbenzene	μg/l		6		ND	ND ND	ND ND
Methyl Isobutyl ketono	µg/l	·	6	<del>-</del>	ND ND	ND ON	ND
m <sub>,p</sub> -Xylene	yg/		3		ND ND	ND	UND.
Methyl-tert-butyl-ether	μg/l	1600	6	0	ND	ND	ND
Methylene Chloride Napthalene	μg/l μg/l		6		ND	ND	ND
n-Butytoenzene	μg/l		6		ND	ND	ND
n-Propylbonzene	µg/i		- 6		ND	ND	ND
p-isopropyltoluene	pg/l	<u> </u>	6		ND	NO ND	ND DND
o-Xylene	μg/l		6		ND ND	ND ND	ND
sec-Butylbenzene	μη/Ι		6		ND	ND	ND
tert-Butylbenzene	ug/l ug/l	<del></del>	6		ND	ND	ND
Styrene  Trichloroethene	ug/l	81	6	0	ND:	ND	ND
Trichlorofluoromethane	µg/l		- 5		ND	ND	ND
Toluene	μg/l	200,000	6	0	ND	0.25	0.10
* Tetrachloroethene	µg/l	8.85	6	0	ND	NO	СИ
Vinyl Acetale	µg/t		3		ND	ND	ND ND
Vinyl Chloride	μg/i	525	6	0	ND ND	ND ND	ND ND
Total Xylenes	<u> 49/1</u>		6		ND	ND	ND ND
cis-1,2-Dichloroethene	pg/l		6	<del></del>	ND ND	ND ND	ND ND
cis-1,3-Dichloropropero		140000	6	0	ND	. ND	ND
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	µg/l   µg/l		6		ND	ND	ND
SVOCs	12 THE SEASON	<b>4</b>		No. CONTRACT	** :	100 A	
* Acenaphthene	μ <b>g/</b> 1	2700	3	. 0	ND	ND	ND
Acenaphthylene	µg/l		3		ND	ND	ND
Anthracene	µд∕1	110000	3	0	ND	ND NO	ND ND
© Benzo(a)anthracene	μg/l	0.049	3	0	ND	ND_	ND
° Benzo(a)pyrene	μ9/1	0.049	3	0	ND ND	ND	ND ND
Benzo(ti)fluoxanthene	μ <u>ον</u> 1	0.049	3 -	.0	ND ND	ND ON	ND ND
Benzo(g,h,i)perylene	119/1		3	0	ND ND	ND ND	ND
Benzo(k)fluoranthene	pg/l	0.049	3 3	0	ND	ND	ND
* Chrysene	<u>μg/l</u>	0.049	3	- 0	ND	ND	ND
Dibenzo(a,h)anthracene	μg/l	0.049		0	ND ND	ND	ND ND
° Fluoranthene	µg/l	370 14000	3	<del>                                     </del>	ND	טא	ND
Fluorene	ug/l		1	0	ND	NO	NiD
findeno(1,2,3-c,d)pyrene	µg/l	0.049	1	0	ND	ND ND	ND ND
Naphhalene	μg/l	<del> </del>	3		ND	ND	ND
Phenanthrene	μg/l μο/l	11000	3	0	ND	ND	ND
Pyrene Metals <sup>B</sup>	µg/l	448 482		.040 a	# 14:P1	Carlo Annie	THE MANUAL PROPERTY.
Dissolved Antimony	t/gu	_	3	_	1.1	1.6	1.30
Total Antimony	μg/l		6	<u> </u>	1	1.6	1.17
Dissolved Arsonic	μg/l	150	6	0	6	8.4	7.07
Total Arsenic	μg/l	1 = -	9		6.1	11	8.57
Dissolved Beryllium	µg/l		3		ND ND	ND ND	ND ND
Total Beryllium			6	<u> </u>	LIND	1 (4)	
Dissolved Cadmium	µg/l				NIL	0.2	1 0.09
	µg/l µg/L	6.2	6	0 -	ON ON	0.2	0.09
Total Cadmium	hāy hāy hay	6.2			, ND DO	0.2 0.2 1.2	
Total Cadmium Dissolved Chromium	ha\ ha\ ha\ ha\	6.2	6 9	<u> </u>	ND ND 0.42	0,2 1,2 1,7	0.13 0.56 0.89
Total Cadmium	hāy hāy hay	6.2 	6 9 6 9 8	0 - 0	ND ND 0.42 ND	0,2 1,2 1,7 0,22	0.13 0.56 0.89 0.05
Total Cadmium  Dissolved Chromium  Total Chromium  Dissolved Chromium (VI)  Total Chromium (VI)	Ved Ved Ved Ved Ved Ved Ved Ved Ved	6.2 	6 9 6 9 8	0 	ND ND 0.42 ND 0.19	0.2 1.2 1.7 0.22 0.19	0.13 0.56 0.89 0.05 0.19
Total Cadmium Dissolved Chromium Total Chromium Dissolved Chromium (VI)	hāy hāy hāy hiày hiày	6.2 	6 9 6 9 8	0 - 0	ND ND 0.42 ND	0,2 1,2 1,7 0,22	0.13 0.56 0.89 0.05

#### **Summary of Water Quality Sampling** Dry Weather Data - Freshwater Marsh After 1991

			Total				
Parameter	Units	CTA Chronic"	Number of	Number of	Ali Data		
Falgiliera	, , , , , , , , , , , , , , , , , , ,	FW Criteria	Samples	Samples Over	1		
	]			Guidance Values	Minimum	Maximum	Mean
Dissolved Iron	μg/l - ·		. 3		0.06	0.13	0.09
Total Iron			3		0.09	0.67	0.41
Dissolved Lead	µg/l	11	Б	0	ND	2.9	0.70
Total Lead	μg/1	_	9		ND	1.8	0.56
Dissolved Manganese	μg/s		3		14	35	22.00
Total Manganese	μg/1		3		20	310	119.00
Dissolved Mercury	μg/l		6		ND	ND	ND
Total Mercury	pg/l		9		ND	ND	ND
Dissolved Nickel	µg/1	170	6	0	1.9	3.8	2.88
Total Nickel	μg/l		9	<u> </u>	2	5.6	3.76
Dissolved Selenium	μg/1	_	6	0	ND	ND	ND
Total Selenium	ug/1	5	y	0	ND	GIA	ND
Dissolved Silver	119/1		6		ND	ND	ND
Total Silver	µg/\	<del></del>	9	<u></u>	ND	0.2	0.02
Dissolved Thallium	µд/I		3		ND	ND	ND
Total Thallium	μg/Ι	-	6		ND	ND_	ND
Dissolved Zinc	μ9/t	81	fi	0	1.2	28	12.25
Total Zinc	µg/1		9		1,7	16	9.78
Pesticides	A Parinte	25.45	8. 4. A. A. 1986	4 M. O. L. B. C.	* x # 20 M		
° P.P'-DDD	μg/l	0.0084	3	_0	ND_	ND	NO
° P.P'-DDE	µg/l	0.0059	. 3	0	ND	ND I	ND
P.P'-DDT	до/1	0.001	3	0	ND	ND ·	ND
Aldrin	µg∕1	3	3	0	ND	ND	ND
	110/l	0.013	3	0	ND	ND	ND
° atoha-BHC		0.046	3	0	ND	ND	ND
bela-BHC	μg/1 	-	3		ND	ND	ND
delta-BHC			3	<del> </del>	ND	ND	ND
alpha-Chlordane Dieldrin		0.056	3	0	ND	ND	ND
Endosulfan I	hō\/	0.056	3	0	ND	ND	ND
Endosulfan II	<u>                                    </u>	0.056	3	0	ND	ND	NO
	μg/\	240	3	0	ND	ND	GN
Endosulfan Sulfate	light part	0.036	1 1	0	ND	ND	ND
Endrin		0.81	3	ō	ND	ND	ND
Endrin Aldehyde	μg/l		3	0	ND	ND	ND ND
Endrin Ketone	μg/l		3	0	ND	ND ND	ND ND
gamma-BHC (lindane)		0.95		9	ND	ND ND	ND
gamma-Chiordane	l/Gri	— —	3	0	ND	NO NO	ND ND
Heptachlor Epoxide	µg/l	0.52	3	0	ND ND	ND ND	ND
Heptachlor	hāv.	0.52	3 3	<u> </u>	ND	ND ND	ND ND
Methoxychlor	μ <u>σ/</u> 1	0.014	3	<del>  -</del>	ND ND	ND ND	ND ND
PCB-1016		0.014	3	0	ND	ND	ND
PCB-1221	ug/l	0.014	3 3	0	NO	ND ND	ND ND
PCB-1232	µg/l		3-	<del>-</del>	UND	ND -	ND ND
PC8-1242	μg/l	0.014	3	0	ND	ND	ND ND
PCB-1248	<u>μο/Ι</u>	0.014	1 1	0	ND	ND	ND
PCB-1254	µg/l		1 2	<del> </del>	ND	ND ND	ND
PCB-1260	<u>μg/l</u>	0.014	2	1 0	ND ND	NO NO	ND ND
PCBs	µg/i	0.014			1 190	1 10	1 40

#### Notes:

- - No Criteria

NA - Not Analyzed

ND - Not Detected

2002 CDM = 2002, April 25 and June 28. Camp Dresser & McKee. Freshwater Marsh Waler Quality Sampling, Dry Weather, Playa Vista, California. Final CTR FW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California.

<sup>\*</sup> Freshwater chronic CTR criteria are used here because the Freshwater Marsh is not a saltwater habitat, the biology of the waterbody is dominated by freshwater aquatic life, and the Marsh is physically separated from the saltwater Ballona Wetlands by a berm; therefore the freshwater criteria are more appropriate.

<sup>&</sup>lt;sup>6</sup> CTR Criteria was calculated using the mean hardness for all freshwater dry weather samples collected in the Freshwater Marsh. Since the mean hardness was 453 mg/l (greater than the maximum set by the CTR), a hardness of 400 mg/l was used.

CTR criteria shown are for the protection of human health due to the consumption of aquatic organisms living in waters with carcinogenic compounds. CTR does not designate freshwater chronic criteria for these constituents.

<sup>&</sup>lt;sup>d</sup> CTH criteria shown are the freshwater acute criteria for the protection of aquatic life. CTR does not designate freshwater chronic criteria for these constituents.

#### **Summary of Water Quality Sampling** Wet Weather Data - Santa Monica Bay After 1991

	Units	CTR Acute SW Criteria	COP Objectives	Total Number of Samples	Total Number of Samples	ABCL 1996-1997		l N
					Over Objectives		Maximum	Mean
General	2 (# A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A 4 A	10-24		STATE OF THE STATE		216.4		S- # *W-1
Total Coliform	MPN/100mf	T	1000	2	0	ND	20	10
Fecal Collform	MPN/100mi		200	2	0	ND ND	20	10
Enterococcus	Col's/100ml				_	ND	ND	ND
Salinity	960	<u> </u>	1 —	5	_	30	33	32.62
Dissolved Oxygen	ma/l		_	5		5.93	6.55	6.36
рН	<del> </del>			5		8.25	8.35	8.30
NH3+NH4	mq/l			6		0.124	1.33	7.27
BOD	mg/l			6		2.2	3.4	2.72

#### Notes:

- No Criteria

NA - Not Analyzed

ND - Not Detected

ND - Not Detected
1996-1997 ABCL = 1997, September 15, Aquatic Bioassay Consulting Laboratory.
The Marine Environment of Marina del Rey Harbor July 1996 - Junio 1997.
COP Objectives = 1997. California State Water Resources Control Board. California Ocean Plan.

Table B Water Quality Objectives. Daily Maximums for aquatic life and 30-day Averages for human health.

Final CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Priority Toxic Pollutants for the Slate of California.

**Table 4-13** 

# Summary of Water Quality Sampling Wet Weather Data - Ballona Channel - Saltwater After 1991

Parameter	Units	CTR Acute	Total Number of Samples	Total Number of Samples	All Data			
		Critoria	′ I	Over Criteria	Minimum	Maximum	Mean	
eneral		All Market	t sala telamen		KINDS OF T	+	F.4	
Oil and Grease	mg/l		13		ND ND	16 ND	5.4 ND	
Total Coliform	MPN/100ml				ND ND	ND I	ND	
Fecal Coliform	MPN/100ml		1 1		ND	ND ND	ND ND	
Enterococcus	MPN/100ml		1		ND ND			
Tribulyltin	μg/L		6	<u> </u>	ND	0.012	0.0045	
Bicarbonate	mg/l		5		140	171	156	
Carbonate	mg/l		5		ND	ND	ND	
Hardness	rng/l	·-	6		54	1800	487	
Ałkalinity	mg/l		- 6		30	92	49	
Magnesitan	mg/l	<del>-</del>	5		278	624	354	
Potassium	mg/l		5		96	272	134	
Chloride	mg/l		11		60	12800	4753	
Salinity	%₀		2		26.5	33.5	30	
Sulfate	mg/l		11	<del></del>	22	1620	527	
Dissolved Oxygen	mg/l		2		6.10	6.72	6.41	
Immediate Oxygen Demand	mg/l	<del></del>	5		ND	1.2	1.0	
BOD	mg/l		10	· · · · · · · · · · · · · · · · ·	3.2	103	70	
COD	mg/l		5		105	170	128	
Total Dissolved Solids	-		13	<del></del>	98	22500	5851	
		- <del></del>	5		0.16	0.41	0.23	
Votatile Solids	% 		2		89	120	105	
Total Suspended Solids	mg/i		6		- ND	47	25	
Volatile Suspended Solids	mg/l		5 5		6	21	17	
Total Organic Carbon	mg/l				0.18	2.9	1.0	
Total Phosphorus	mg/l	-	13		ND ND	0.4	0.13	
Orthophosphate	mg/l		8		ND ND	2.4	1.3	
Ammonia	mg/f		6			ND ND	ND ND	
Ammonia-N	mg/i		2		ND			
NH3 + NH4	mg/l		2		0.812	0.947	0.879	
Nitrate	mg/l		4		ND	22	12	
Organic Nitrogen	mg/l		5		1.8	4	3.0	
T141			8	_	0.18	6.4	2.3	
TKN	ണg⁄l							
TKN Specific Conductance	µhos/cm		8		390	78000	20860	
Specific Conductance	μhos/cm				0.051	0.43	0	
Specific Conductance MBAS	μhos/cm mg/l		8		0.051 ND	0.43 ND	0 ND	
Specific Conductance MBAS Bromide	µhos/cm mg/l mg/l su		8 6 0	- - -	0.051 ND 7.01	0.43 ND 8.43	0 ND 7.44	
Specific Conductance MBAS Bromide pH	µhos/cm mg/l mg/l su		8 6 0	- - -	0.051 ND 7.01	0.43 ND 8.43	0 ND	
Specific Conductance MBAS Bromide pH //OCs*	µhos/cm mg/l mg/l su		8 6 0		0.051 ND 7.01	0.43 ND 8.43	0 ND 7.44 ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane	mg/l mg/l su µpos/cm		8 6 0 10	- - -	0.051 ND 7.01	0.43 ND 8.43	0 ND 7,44	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane	μhos/cm mg/l su μg/l μg/l	——————————————————————————————————————	8 6 0 10 5 5	- - -	0.051 ND 7.01 ND	0.43 ND 8.43	0 ND 7.44 ND	
Specific Conductance MBAS Bromide pH //OCS* Chloromethane Bromornettiane Dichlorodifluoromethane	μλοs/em mg/l mg/l su μg/l μg/l μg/l	-	8 6 0 10 5 5	- - - - - -	0.051 ND 7.01 ND ND	0.43 ND 8.43 ND ND	0 ND 7.44 ND ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride	μλοs/em mg/l mg/l su μg/l μg/l μg/l μg/l	- - - - - - - - - - - - - - - - - - -	8 6 0 10 5 5 5	- - - - - -	0.051 ND 7.01 ND ND ND	0,43 ND 8,43 NO NO NO	0 ND 7.44 ND ND ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chlorodethane	μhos/em mg/l mg/l su μg/l μg/l μg/l μg/l μg/l μg/l μg/l		8 6 0 10 5 5 5 5	- - - - - 0	0.051 ND 7.01 ND ND ND ND ND	0.43 ND 8.43 ND ND NO NO	O ND 7.44 ND ND ND ND ND	
Specific Conductance MBAS Bromide pH /OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride	μhos/em mg/l mg/l su μg/l μg/l μg/l μg/l μg/l μg/l μg/l μg/l		8 6 0 10 5 5 5 5 5	- - - - - 0	0.051 ND 7.01 ND ND ND ND ND ND ND	0,43 ND 8,43 ND ND ND NO ND ND ND	0 ND 7.44 ND ND ND ND ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromenthane	mg/l mg/l mg/l pg/l pg/l pg/l pg/l pg/l pg/l pg/l p		8 6 0 10 5 5 5 5 5 5	- - - - - 0	0.051 ND 7.01 ND ND ND ND ND ND ND ND	0,43 ND 8,43 ND ND ND ND ND ND ND ND	O ND 7.44 ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chlorodethane Methylene Chloride Trichlorofluoromethane	mg/s/cm mg/s mg/s su pg/s pg/s pg/s pg/s pg/s pg/s pg/s		8 6 0 10 5 5 5 5 5 5 5 5	- - - - 0 - 0	0.051 ND 7.01 ND ND ND ND ND ND ND ND ND	0,43 ND 8,43 ND ND ND ND ND ND ND ND ND	O ND 7.44 ND N	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chkoroethane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethane 1,1-Dichloroethane	mg/l mg/l mg/l su  µg/l µg/l µg/l µg/l µg/l µg/l µg/l µg/		8 6 0 10 5 5 5 5 5 5 5 5 5 5	- - - - 0 - - 0	0.051 ND 7.01 ND ND ND ND ND ND ND ND ND	0.43 ND 8.43 ND ND ND ND ND ND ND ND ND	O ND 7.44 ND N	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chkoroethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethene trans-1,2-Dirhloroethene	μhos/em mg/l mg/l su μg/l μg/l μg/l μg/l μg/l μg/l μg/l μg/l	525 ———————————————————————————————————	8 6 0 10 5 5 5 5 5 5 5 5 5 5 5	- - - 0 - 0	0.051 ND 7.01 ND ND ND ND ND ND ND ND ND ND	0.43 ND 8.43 ND NO NO NO NO ND ND ND ND ND ND	O ND T-44 ND N	
Specific Conductance MBAS Bromide pH //CCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethene 1,1-Dichloroethene trans-1,2-Dichloroethene Chloroform	μhos/em mg/l mg/l su  μg/l μg/l μg/l μg/l μg/l μg/l μg/l μg/	525 ———————————————————————————————————	8 6 0 10 5 5 5 5 5 5 5 5 5 5	- - - - 0 - - 0 - - - - -	0.051 ND 7.01 ND ND ND ND ND ND ND ND ND ND	0,43 ND 8,43 ND ND ND ND ND ND ND ND ND ND ND ND	O ND 7.44  ND N	
Specific Conductance MBAS Bromide pH //CCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethane 1,1-Dichloroethane trans-1,2-Dichloroethane Chloroform 1,2-Dichloroethane	μhos/em mg/l mg/l su  μg/l μg/l μg/l μg/l μg/l μg/l μg/l μg/	525 ———————————————————————————————————	8 6 0 10 5 5 5 5 5 5 5 5 5 5 5	- - - 0 - 0	0.051 ND 7.01 ND	0,43 ND 8,43 ND ND ND ND ND ND ND ND ND ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethane trans-1,2-Dichloroethane trans-1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane	mys/mys/cm mys/ mys/ su  pgs/ pgs/ pgs/ pgs/ pgs/ pgs/ pgs/ pgs		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND 8,43 ND NO NO NO ND ND ND ND ND ND ND ND ND ND ND ND ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chlorothane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane trans-1,2-Dichloroethane trans-1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,1-Trichloroethane Carbon Tetrachloride	μhos/em mg/l mg/l su  μg/l μg/l μg/l μg/l μg/l μg/l μg/l μg/		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0.43 ND 8.43 ND ND ND ND ND ND ND ND ND ND ND ND ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethene 1,1-Dichloroethene trans-1,2-Dirhloroethene Chloroform 1,2-Dichloroethane 1,1-Trichloroethane	mys/mys/cm mys/ mys/ su  pgs/ pgs/ pgs/ pgs/ pgs/ pgs/ pgs/ pgs		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 NO 7.01 NO NO ND	0,43 ND 8,43 ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chlorothane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane trans-1,2-Dichloroethane trans-1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,1-Trichloroethane Carbon Tetrachloride	μhos/em mg/l mg/l su  μg/l μg/l μg/l μg/l μg/l μg/l μg/l μg/		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND 8,43 ND NO NO NO NO ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH /OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chlorodethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane trans-1,2-Dirhloroethane Chloroform 1,2-Dichloroethane 1,1,1-Trinhloroethane Carbon Tetrachloride Bromodichloromethane	μhos/em mg/l mg/l su μg/l μg/l μg/l μg/l μg/l μg/l μg/l μg/l		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND 8,43 ND ND NO NO ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH //CCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chlorodifluoromethane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethene 1,1-Dichloroethene trans-1,2-Dichloroethene Chloroform 1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	μhos/em mg/l mg/l su  μg/l μg/l μg/l μg/l μg/l μg/l μg/l μg/		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND B.43 ND RAD ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH //CCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	mg/s/cm mg/s mg/s gu  pug/s pu		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0.43 ND 8.43 ND 8.43 ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH /OCs* Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane trans-1,2-Dichloroethane trans-1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane Carbon Tetrachloride Bromodichloromethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropene Trichloroethane	mg/s/cm mg/s mg/s mg/s gu  pg/s pg/s pg/s pg/s pg/s pg/s pg/s pg/		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND 8,43 ND 8,43 ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chlorodifluoromethane Vinyl Chloride Chlorodifluoromethane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethane 1,1-Dichloroethane trans-1,2-Dichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane Trichloroethene Dibromockloromethane 1,2-Trichloroethane	шhos/em mg/l mg/l mg/l pg/l μg/l μg/l μg/l μg/l μg/l μg/l μg/l μ		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND 8,43 ND 8,43 ND	0 ND 7.44	
Specific Conductance MBAS Bromide pH //CCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethene 1,1-Dichloroethene 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,2-Dichloroethane 1,2-Dichloropropane trens-1,3-Dichloropropane trens-1,3-Dichloropropene Trichloroethene Dibromoctioromethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane cis-1,3-Dichloropropene	mg/s/cm mg/s mg/s mg/s mg/s su  pg/ pg/s pg/s pg/s pg/s pg/s pg/s pg/s		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND 8,43 ND 8,43 ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH //CCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloromethane 1,2-Tichloroethane 1,2-Tichloroethane 1,2-Tichloroethane 1,2-Tichloroethane Dibromochloromethane 1,2-Tichloroethane Dichloropropane Trichloroethane Dichloropropane 2-Chloroethylvinyl ether	шдл		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND 8,43 ND 8,43 ND	0 ND 7.44	
Specific Conductance MBAS Bromide pH /OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane 1,1-Dichloroethane trans-1,2-Dichloroethane trans-1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,2-Dichloromethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane Dibromoctloromethane 1,2-Trichloroethane 0:1,2-Trichloroethane Dibromoctloromethane 1,2-Trichloroethane Dibromoctloromethane 1,2-Trichloroethane Dibromoctloromethane 1,2-Trichloroethane 0:1,3-Dichloropropene 2-Chloroethylvinyl ether Bromoform	mg/s/cm mg/s su  pg/s pg/s pg/s pg/s pg/s pg/s pg/s pg/		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01  ND	0.43 ND 8.43 ND NO NO NO NO NO ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH /OCs* Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chlorodethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane 1,1-Dichloroethane trans-1,2-Dichloroethane trans-1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane 1,1,2-Trichloroethane cis-1,3-Dichloropropane 2-Chloroethylvinyl ether Bromoform 1,1,2-Tetrachloroethane	шhos/cm  mg/l  su  pg/l		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND B.43 ND B.43 ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chkorodifluoromethane Vinyl Chloride Chkorothane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethane trans-1,2-Dichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane Trichloroethene Dibromockloromethane 1,1,2-Trichloroethane cis-1,3-Dichloropropane 2-Chloroethylvinyl ether Bromodicm 1,1,2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane	шроз/ст  тдл  тдл  тдл  рдл  рдл  рдл  рдл  рд		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND 8,43 ND 8,43 ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MIBAS Bromide pH OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chkorodifluoromethane Vinyl Chloride Chkorothane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethene 1,1-Dichloroethene trans-1,2-Dichloroethene Chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropene Trichloroethene Dibromockloromethane 1,2-Trichloroethane 1,2-Trichloroethane 1,3-Dichloropropene Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane Tetrachloroethane Tetrachlorocethane Tetrachlorocethane Tetrachlorocethane Tetrachlorocethane Tetrachlorocethane Tetrachlorocethane Tetrachlorocethane	шдл		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND 8,43 ND 8,43 ND	0 ND 7.44	
Specific Conductance MBAS Bromide pH  OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chlorodifluoromethane Vinyl Chloride Chlorodifluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Triichloroethane 1,1-Triichloroethane 1,1-Triichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane 1,1,2-Trichloroethane 2-Chloroethylvinyl ether Bromoform 1,1,2-Tethane 1,3-Dichloropropane 2-Chloroethylvinyl ether Bromoform 1,1,2-Tethane Cis-1,3-Dichloropropane 2-Chloroethylvinyl ether Bromoform 1,1,2-Tethane Chlorobenzene 1,3-Dichloroethane Tetrachloroethane Tetrachloroethane	mg/s/cm mg/s mg/s mg/s su su pusition in minimal in min		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND T.01 ND	0.43 ND 8.43 ND ND ND ND ND ND ND ND ND ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH /OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chloroethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane trans-1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane Carbon Tetrachloride Bromodichloromethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane dis-1,3-Dichloroethane 1,1,2-Tinchloroethane 1,1,2-Tinchloroethane 1,1,2-Tetrachloroethane Chloroethylvinyl ether Bromoform 1,1,2,2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane	шроз/ст  тдл  тдл  тдл  тдл  тдл  тдл  тдл  т		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0.43 ND B.43 ND B.43 ND	0 ND 7.44 ND ND ND ND ND ND ND ND ND ND ND ND ND	
Specific Conductance MBAS Bromide pH /OCs* Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chkoroethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane 1,1,2-Trichloroethane cis-1,3-Dichloropropane 2-Chloroethane cis-1,3-Dichloropropane 2-Chloroethane cis-1,3-Dichloropropane 1,1,2-Tetrachloroethane cis-1,3-Dichloropropane 1,1-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	mg/ mg/ mg/ mg/ mg/ pg/ pg/ pg/ pg/ pg/ pg/ pg/ pg/ pg/ p		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0,43 ND 8,43 ND 8,43 ND	0 ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chkorogithane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethene 1,1-Dichloroethene 1,1-Dichloroethane trans-1,2-Dichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane 1,2-Tinchloroethane 1,1,2-Tinchloroethane 1,1,2-Tinchloroethane 1,1,2-Tinchloroethane cis-1,3-Dichloropropene 2-Chloroethylvinyl ether Bromoform 1,1,2-Tetrachloroethane Tetrachloroethene Chlorobonzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzene	шох/ст  тдл  тдл  рдл  рдл  рдл  рдл  рдл  рд		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND 7.01 ND	0.43 ND 8.43 ND 8.43 ND	0 ND 7,44 ND	
Specific Conductance MBAS Bromide pH /OCs* Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chkoroethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane 1,1,2-Trichloroethane cis-1,3-Dichloropropane 2-Chloroethane cis-1,3-Dichloropropane 2-Chloroethane cis-1,3-Dichloropropane 1,1,2-Tetrachloroethane cis-1,3-Dichloropropane 1,1-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	шроз/ст тул тул нул нул нул нул нул нул нул н		8 6 0 0 10 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND T.01 ND	0,43 ND 8,43 ND 8,43 ND	0 ND 7.44 ND N	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chkoroethane Methylene Chloride Trichlorofluoromenthane 1,1-Dichloroethene 1,1-Dichloroethene trans-1,2-Dichloroethane trans-1,2-Dichloroethane chloroform 1,2-Dichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane 1,2-Tinchloroethane 1,2-Tinchloroethane 1,1,2-Tinchloroethane cis-1,3-Dichloropropene 2-Chloroethylvinyl ether Bromoform 1,1,2-Tetrachloroethane Tetrachloroethene Chlorobropropene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Benzene	шроз/ст		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND T.01 ND	0.43 ND 8.43 ND 8.43 ND	0 ND 7.44  ND N	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chkoroethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane 1,1-Dichloroethane trans-1,2-Dichloroethane trans-1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,2-Dichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane 1,1,2-Tichloroethane cis-1,3-Dichloropropane 2-Chloroethylvinyl ether Bromoform 1,1,2-Tetrachloroethane Tetrachloroethane Tetrachloroethene Chlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Toluene Total Xylenes	шроз/ст		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND T.01 ND	0,43 ND 8,43 ND 8,43 ND	0 ND ND 7.44 ND	
Specific Conductance MBAS Bromide pH /OCs* Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chkoroethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane 1,1,2-Trichloroethane cis-1,3-Dichloropropane 2-Chloroethane cis-1,3-Dichloropropane 2-Chloroethane cis-1,3-Dichloropropane 1,1,2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichlorobenzene Toluene Total Xylenes	шроз/ст		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND T.01 ND	0,43 ND 8,43 ND 8,43 ND	0 ND ND 7.44 ND	
Specific Conductance MBAS Bromide pH OCs* Chloromethane Bromomethane Dichlorodifluoromethane Vinyl Chloride Chkoroethane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,1-Trichloroethane 1,2-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane trans-1,3-Dichloropropane 1,2-Dichloropropane trans-1,3-Dichloropropane 2-Chloroethane cis-1,3-Dichloropropane 2-Chloroethylvinyl ether Bromoform 1,1,2-Tetrachloroethane Tetrachloroethane Tetrachloroethene Chlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene	mg/l mg/l mg/l mg/l mg/l pg/l pg/l pg/l pg/l pg/l pg/l pg/l p		8 6 0 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 ND T.01 ND	0,43 ND 8,43 ND 8,43 ND	0 ND ND 7.44 ND	
Specific Conductance MBAS Bromide pH //OCs* Chloromethane Bromornethane Dichlorodifluoromethane Vinyl Chloride Chlorothane Methylene Chloride Trichlorofluoromethane 1,1-Dichloroethane 1,1-Dichloroethane trans-1,2-Dichloroethane trans-1,2-Dichloroethane trans-1,2-Dichloroethane 1,2-Dichloroethane 1,1-Trichloroethane Carbon Tetrachloride Bromodichloromethane 1,2-Dichloropropane trans-1,3-Dichloropropane Trichloroethane 1,2-Tichloroethane 1,2-Tichloroethane cis-1,3-Dichloropropane cis-1,3-Dichloropropane cis-1,3-Dichloropropane 1,1,2-Tetrachloroethane Tetrachloroethane Tetrachloroethane Tetrachloroethane 1,1-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Benzene Ethylbenzene Toluene	шроз/ст		8 6 0 0 10 10 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		0.051 NO 7.01 NO 7.01 NO	0,43 ND 8,43 ND 8,43 ND	0 ND ND 7.44 ND	

HiplayavishistionipNahlea\0:0001 iSUMMARY ,,alklata for Toch Report Appendix B.XLS/Tab4-13-SW-Wwt-BC 8/12/03 5:06 PM (1 of 2)

#### Summary of Water Quality Sampling Wet Weather Data - Ballona Channel - Saltwater After 1991

Parameter	Units	CTR Acute SW	Total Number of Samples	Total Number of Samples		All Data			
		Criteria		Over Criteria	Minimum	Maximum	Mean		
2-Chlorophenol	μg/l	400	0	00	NO NO	ND	ND ND		
2,4-Dichlorophenol	μд∕І	790	0	0	NO ND	ND	ND		
2,4-Dimethylphenol	μg/l	2300	0	0					
Metals	(1900) A 187			ka k	A 100 A	THE PARTY OF THE P	NG.		
Total Antimony	μg/l		7		ND	UN ON	ND ND		
Total Arsenic	<u> </u>		7		ND ND	ND ND	ND -		
Dissolved Arsenic	μg/Ι	69	. 5	0	ND ND	ND ND	ND D		
Total Beryllium	μg∕1	<del> </del>	<u> </u>	<del></del>	ND	ND	ND		
Total Cadmium		42	7 5		NO	ND	ND		
Dissolved Cadmium	μg/1	42	7		ND ND	" ND	ND		
Total Chromium	119/1			0	ND	ND	ND		
Dissolved Chromium	µg/l	1100	5 7		ND ND	30	10		
Total Copper	μg/1		5	1	ND	13	10		
Dissolved Copper	μg∕1	4.8	0	<del>-</del>	ND	ND	ND ND		
Total Iron	μg/1	<u> </u>	5		190	880	640		
Dissolved Iron	μολ	<del></del>	7	····	ND ND	ND	ND		
Total Lead	μg/Ι	210	5	0	ND	ND	ND		
Dissolved Lead	дд/	210	0		ND ND	ND	ND		
Total Manganese	μg/l μg/l	<del> </del>	5		20	130	106		
Dissolved Manganese Total Mercury	μg/l	<del> </del>	7		ND	ND	ND		
Dissolved Mercury	<u>µg</u> /	<del></del>	5		ND	ND	ND		
Total Nickel	руд п	<del>                                     </del>	7		ON	13	1.9		
Dissolved Nickel	μg/l	74	5	0	NĐ	ND	ND		
Total Selenium	jig/l		7		ND	ND	ND		
Total Silver	μg/l	_	7	<u> </u>	ND	ND	ND ND		
Total Thallium	μο/	1 =	7		ND	ND	ND		
Total Zinc	μg/l	<b>—</b>	8		0.015	123	49		
Dissolved Zinc	μg/۱	90	5	4	ND	100	10		
Pesticides and PCBs	THE WAY	The state of the s	to the second second	4	***		***		
Aldrin	<u>μ</u> g/l	1.3	5	0	NO	ND	MD		
alpha-BHC	μg/1	0.013	5	0	NĐ	ND	ND		
beta-BHC	μg/l	0.046	5	0	ND	ND	ND		
Lindane	μg/l	0.16	5	0	ND	ND _	ND		
Chlordane	μg/1	0.09	5	0	ND	ND	ND		
ninblaiG	µg/i	0.71	5	0	ND	ÜN	ND ND		
Endrin	μg/1	0.037	5	0	NO	ND ND	- NO GN		
Toxapheno	μο/Ι	0.21	5	0	NO NO	ND ND	ND ND		
Heptachlor	μg/l	0.053	5	0	ND ND	ND	ND ND		
Heptachlor Epoxide	μg/1	0.053	5	<del></del>	ND ND	ND	ND ND		
0,P-DDT	μο/1		5		ND ND	· ND	ND		
P,P'-DDT	μgA	0.13	5		ND ND	ND	ND		
O,P'-DDD	jag/l	0,00084	5	0	ND	ND ND	ND		
P,P'-DOD	μg/l	0.00059	5	0	ND ND	ND	NO		
P,P-DDE	<u> Құд</u>	0.00059	5		ND ND	ND	ND		
Total Pesticides	μg/l		5	0	ND ND	ND	ND		
PCB-1016 <sup>6</sup>	μg/l	0.03		0	ND ND	ND ND	ND		
PCB-1221°	μ <u>α</u> /1	0.03	5		ND	ND	ND		
PCB-1232°	μg/1	0.03	5	0			NO NO		
PCB-1242°	μg/1	0.03	5	0	ND	ND			
PCB-1248 <sup>c</sup>	μg/l	0.03	5	0	ND _	ND	ND		
PCB-1254 <sup>c</sup>	μ <b>g/</b> 1	0.03	5	D	ND	ND	ND		
PCB-1260°	μдЛ	0.03	5	0 _	ND	ND	ND		
Total Chlorinated Hydrocarbons Detected	ugA	_	5		ND	ND	ND		

#### Notes:

- No Criteria

NA - Not Analyzed

ND - Not Detected

1992 Chambers = 1993, March. Chambers Group, Inc. Comparison of the Re-establishment of Tidal Flow in the Ballona Wetlands Through the Ballona Channel or Through the Marina Del Rey Entrance Channel. The Chambers 1993 Report does not indicate whether the metals values reported are dissolved or total. Here they are assumed to represent dissolved metals concentrations.

1995-1996 CDM = 1996, August 14. Camp Dresser & McKee. Ballona Creek Water and Sediment Quality Sediment Quality Report, 1995/1996,

Wel Weather Season, Playa Vista, California.

1996-1998 ABCL = 1997, September 15. Aquatic Bioassay Consulting Laboratory. The Marine Environment of Marina del Rey Harbor July 1996 - June 1997. Final CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California.

\*CTA criteria are from human health organisms only criteria.

<sup>b</sup> Criteria for hexavalent chromium was used for chromium

"CTA criteria is from the chronic saltwater criteria.

#### Summary of Water Quality Sampling Wet Weather Data - Ballona Wetlands - Saltwater After 1991

Parameter	Units	CTR Acute SW Criteria	Total Number of Samples	Total Number of Samples		All Data	
				Over Criteria	Minimum	Maximum -	Mean
General		and the same of the same of the	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		118.04664		en in East
Hydrogen Sulfide	mg/L		}		U.1	0.1	0.1
Total Hardness	mg/L		2		346	1980	1163
pH		-	2		8.02	8.43	8.225
Specific Conductance	umhos/cm		2		1310	20500	10905
TOC	mg/l.		2		5.6	6.6	6.1
Total Suspended Solids	mg/L		2		73	187	130
Turbidity	mg/L	-	2		35	141	88
VOCs	10 MEC	grand and a supplementary of the	STATE OF THE STATE OF	* 40 H	-	19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	者を必要
MTBÉ	μg/L		11		1.1	1.1	1.1
Metais	44 mm 5 6 4	4	A		40.00	3 3 34	
Total Antimony	μg/L		1		11	1	1
Dissolved Arsenic	μg/L	69	2	0	3.02	6.79	4.905
Total Arsenic	μg/L		2		4.73	7.06	5.895
Dissolved Barium	μg/L		2		18.6	43	30.8
Total Barium	hih/r		2		31.8	100	65.9
Dissolved Chromium *	μg/L	1100	2	0	2.18	4.37	3.275
Total Chromium	pg/L		2		3.3	11.7	7.5
Total Cobalt	μg/L		2	i – –	1.45	3.59	2.52
Dissolved Copper	µg/L	4.8	2	1	3.25	7.19	5.22
Total Copper	μg/L		2		13.5	24.6	19.05
Total Lead	μα/L	221	2	0	12.9	17.6	15.25
Dissolved Molybdenum	μg/L		2		4.19	5.1	4.645
Total Molybdenum	μg/L		2		3.36	5.2	4.28
Dissolved Nickel	μg/\.	74	2	0	2.23	2.74	2.485
Total Nicket	μg/L		ž		1.27	9.94	7.105
Dissolved Selenium	µg/L	290	2	0	4.78	23.3	14.04
Total Selenium	µg/L		2		2.43	21	11.715
Dissolved Variadium	µg/L		2		3.28	5.2	4.24
Total Vanadium	μg/L		2		7.62	22.2	14,91
Dissolved Zinc	μg/L	90	2	0	14.6	19.9	17.25
Total Zinc	μg/L		2		29.2	131	80.1

#### Notes:

--- No Criteria

NA - Not Analyzed ND - Not Detected

2000 GS = 2000, GeoSyntec Consultants, Data.

Final CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Prinrity Toxic Pollutants for the State of California.

"Hexavalent chromium criteria is used for chromium.

# Summary of Sediment Quality Sampling Data Santa Monica Bay After 1991

Parameter	Units	NOAA Total Fotal SQuiRT Number of Number of Marine Sediment Samples Samples Over		All Data			
		PELs " 1999				Maximum	Mean
General		7*4		ALCOHOLOGY OF THE	V · · · · · · · · · · · · · · · · · · ·	342	
THPH	mg/kg		13		62.4	874	323
Oil and Grease	mg/kg		4		120	1510	620
Tributyttin	mg/kg		17		ND	0.03	0.006
Dibutyltin	mg/kg	_	13	·	NO	0.0138	0.0034
Monobutyllin	mg/kg		13		NO	0.0146	0.0026
Hydrogen Sulfide	mg/kg		1		0.79	0.79	0.79
Moisture	%		2		27	36.8	32
Spec. Cond.	mmhos/cm	_ :	2	<u> </u>	15	63	27
Alkalinity as CaCO3	mg/kg	<u> </u>	2		360	1100	730
Hardness as CaCO3	mg/kg	-	2		2500	3300	2900
Total Alkalinity	mg/kg	— — — — — — — — — — — — — — — — — — —	1		3310	3310	3310
Total Dissolved Solids	mg/kg		2	<b>–</b>	16000	22000	19000
Solids (%) (Dry Wt.)	%		13		60	83.2	75
Total Sulfides	mg/kg		15		13.8	1560	585
Water Soluble Sulfides	mg/kg		13		ND	0.2	0.2
			3		8000	40,000	21467
Volatile Solids	mg/kg		16	- <del>-</del>	2600	27600	9388
TOC	mg/kg	<del> </del>	3		ND ND	9500	3600.00
Immediate Oxygen Demand	mg/kg	<del></del>	3		4100	31000	14167
Chemical Oxygen Demand	mg/kg	<u> </u>	2	<del>-</del>	14	26	20
Orthophosphale	mg/kg				2.1	2.1	2.1
Total Phosphorus	mg/kg	<u> </u>	*	-			446
Organic Nitrogen	mg/kg		3		177	930	
Nitrogen	mg/kg		2	<u> </u>	240	940	590
Nitrate	mg/kg		2	1	NΩ	40	10
Calcium	mg/kg		2		14,600	18,100	16,350
Chloride	mg/kg		3		5,350	23,400	11,833
Fluoride	mg/kg		2	<u> </u>	ND	ND	ND
Magnesium	mg/kg	<del>-</del>	1		2,120	2,120	2,120
Potassium	ing/kg		3		959	3,290	1,906
Sulfate	mg/kg	<del></del>	3		790	2,910	1,558
Sadium	ma/ka	-	2		4,410	8,110	6,260
VOCs	4444	NATE OF THE	17.00 Page	V-1	THE TANK	500 - V 1500 SW	7. X X 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Chloromethane	ug/kg		1 1		ON	ND	ND
Bromomethane	pg/kg		1	_	ND	NO	NÚ
Dichlorodifluoromelhane	μg/kg		1 1		ND	NO	ND
Vinyl Chloride	μg/kg		1		ND	CN	CIN
	µg/kg	<del></del>	<del>  i</del> -		ND	ND	ND
Chloroethane		<del> </del>	1 1	<del> </del>	ND	NĎ	ND
Methylene Chloride	μg/kg		1 1		ND	ND.	ND
Trichlorofluoromenthane	<u>рд/кд</u>		+ ;		ND ND	ND	ND
1,1-Dichloroetherus	pg/kg			<del></del>	ND ND	ND	ND
1,1-Dichloroethane	μg/kg		1		ND -	ND	ND ND
trans-1,2-Dichloroethene	µg/kg	<u> </u>	1	ļ <u> —</u>			13
Chloratoon	µg/kg		1	<del></del>	13	13	
1,2-Dichloroethane	μg/kg		1 1	ļ	ND	NO No	ND ND
1,1,1-Trichloroethane	µg/kg				ND	ND	ND
Carbon Yetrachloride	µg⁄kg	<u> </u>	1		ND	ND	ND
Bromodichioromethane	µg/kg		1		ND	ND	NĐ
1,2-Dichloropropane	µg/кд		1	L	ND	ND	ND
trans-1,3-Dichloropropene	µg/kg		1	l	ND	ND	ND
Trichloroethene	ug/kg	41	1	1 0	ND	ND	ND
	ug/kg	<del>                                     </del>	<del> </del> i	<u> </u>	ND	ND	ND
Dibromochloromethane		<del> </del>	<del> </del>	<del></del>	ND	ND	ND
1,1,2-Trichloroethane	μg/kg	<del> </del>	1	<del> </del>	ND ND	ND	ND ND
cis-1.3-Dichloropropene	jig/kg	<del></del>	1		ND	ND ND	ND
2-Chloroethylvinyfether	µg/kg	<del></del>			ND	NO NO	ND
Bromoform	μg/kg	·	1 1				ND
1,1,2,2-Tetrachloroethane	pg/kg		1		ND ND	NÐ ND	
Tetrachloroethene	µg∕kg	57	1 1	0	ND	ND	NO
Benzene			1		ND	ND	МĐ
	pg/kg		1	***	ND	ND	ND
Chlorobenzene	ug/kg		_1		ND	ND	ND
Chlorobenzene 1.2-Dichlorobenzene	ug/kg	=	1		140	IND	
1,2-Dichlorobenzene	ug/kg ug/kg	= = =	1	<u> </u>	ND ND	ND	ND
1,2-Dichlorobenzene 1,3-Dichlorobenzene	ha/ka ha/ka		1		ND	ND	
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzenn	hã/kã hã/kã hã/kã	= =	1 1		ND ND	ND ND	ND
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 5 Ethylbenzene	µg/kg µg/kg µg/kg µg/kg		1 1 1	0	ND NO NO	ND ND ND	ND ND
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzeno  Ethylbenzene Toluene	уд/kg µg/kg µg/kg µg/kg µg/kg µg/kg	4	1 1 1 1	0	ND ND ND ND	ND ND ND	ND ND ND
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene  Ethytbenzene Totuene Total Xylenes	hayka hayka hayka hayka hayka hayka	- - - 4 -	1 1 1 1 1 1 1 1 1	0	ND ND ND ND	ND ND ND ND	ND ND ND
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene Toluene Toluene Total Xylenes SVOCs	hayka hayka hayka hayka hayka hayka	4	1 1 1 1 1 1	0	ND NO ND ND ND	ND ND ND ND ND	ND ND ND ND
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzenn  Ethytbenzene Total Xylenes	hayka hayka hayka hayka hayka hayka	- - - 4 -	1 1 1 1 1 1 1 1 1	0	ND NO NO ND ND	ND ND ND ND ND	ND ND ND ND ND
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzenu bethylbenzene Toluene Total Xylenes SVOCs bis(2-Ethylhexyl)phthalate	pg/kg pg/kg pg/kg pg/kg pg/kg pg/kg pg/kg pg/kg	- - - 4 -	1 1 1 1 1 1	0	ND NO ND ND ND	ND ND ND ND ND	ND ND ND ND
1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzenn  Ethythenzene Totuene Total Xylenes  SVOCs	ng/kg pg/kg pg/kg pg/kg pg/kg pg/kg pg/kg	4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	ND NO NO ND ND	ND ND ND ND ND	ND ND ND ND ND

**Table 4-15** 

# Summary of Sediment Quality Sampling Data Santa Monica Bay After 1991

Parameter	Units	NOAA SQuiRT Marine Sediment	Total Number of Samples	Total Number of Samples Over Guidance Values		All Data	
		PELs " 1999		GOIDANCE VAIDES	Minimum	Maximum	Mean
Dimethylphthalate	μg/kg	6	13	11	ND	1,390	107
Di-n-octylphthalate	μg/kg	61	13	0	ND	ND	ND
4-chloro-3-methlyphenol	µg/kg		13		ND	ND	ND
4-methlyphenoi	µg/kg	100	13	0	ND	ND	ND
2-chlorophenol	μg/kg	8	13	0	ND .	ND	ND
2,4-dichlorophenol	pg/kg	5	13	C C	ND	ND	ND
b 2,4-dimethlyphenol	μg/kg	18	13	0	ND	NO	ND ND
2,4-dinitrophenol	µg∕kg		13	<del> </del>	ND ND	ND ND	ND ND
2-methyl-4,6-dinitrophenol	μg/kg		13		ND	ND ND	ND ND
2-nitrophenol 4-nitrophenol	µg/kg µg/kg		13		ND	ND	ND
Pentachlorophenol	pg/kg	17	13	0	ND	ND	GN
Phenot	µg/kg	130	13	U	ND	ND	ND
2,4,6-trichlorophenol	µg/kg	6	13	0	ND	ND	ND
Napthalene	μg/kg	390.64	13	0	ND	DN	ND
Acenaphthylene	µg/kg	127.87	13	0	ND	ND	ND
Acenaphthene	µg∕kg	88.9	13	0	ΝĐ	ND	ND
Fluorexe	μg/kg	144.35	13	0	ND	ND	ND
Phenanthrene	μη/κα	543.53	13	1	ND	933	131
Anthracene	µg/kg	245	13	1 0	ND ND	1,430 1,310	128 282
Fluoranthene	µ9/кд	1493.54	13	1	ND	2,030	420
Pyrene	μg/kg υσ/κα	1397.6 692.53	13	1 1	ND ND	1,900	228
Benzo(a)anthracene	μ <b>g/kg</b> μg/kg	845.98	13	Ö	ND	726	176
Chrysene Benzo(b)anthraceno	µg/kg	J-15.86	13		NO	1,030	152
Benzo(k)fluoranthene	ug/kg	1800	13	0	GN	695	161
Benzo(a)pyrane	µg/kg	763.22	13	1	ND	792	139
Dibenzo(a,h)anthracene	µ9/kg	134.61	13	1	ND	843	65
h Indeno(1,2,3-c,d)pyrene	μg/kg	600	13	0	ND	ND	NO
Benzo(g,h,i)perylene	uαΔεα	670	13	0	ND	ND	NO
Metals		2 <b>5 4</b> 5 - 6 4				13.39	THE RESERVE
Arsenic	mg/kg	41.6	17	0	1.2	5.6	2.5
<sup>b</sup> Barium	mg/kg	48	15	5	14.5 5	/6.3 17.7	39
Boron	mg/kg		13	<del></del>	0.101	0.32	0.17
Beryillum Cadmium	mg/kg mg/kg	4.21	17	0	ND	0.794	0.44
Chromium	mg/kg	160.4	17	0	7.9	37.7	19
P Cobail	mg/kg	10	13	1	2.51	13,6	4.7
Copper	mg/kg	108.2	17	0	5.3	41.5	19
Iron	mg/kg		4	_	ND	21,700	10,345
Lead	mg/kg	112.18	17	4	22.6	298	88
<sup>b</sup> Mariganese	mg/kg	260	18	0	ND	207	26
Mercury	mg/kg	0.696	17	0	ND	0.22	0.10
Molybdenum	mg/kg		13		0.39	2.78	1,04
Nickel	mg/kg	42.8	17	0	4,02	20.5	11
Selenium	mg/kg	1 1	7	0	ND NO	0.6 1.69	0.13 0.37
Silver	mg/kg	1.77	11	0	ND 12 B	35.8	21
<sup>b</sup> Vanadium	mg/kg	57 271	13	0	12.9 31.2	243	104
Zinc	mg/kg	2/1	25 September 2011	The state of the s	1 71.2	201702240	
Pesticides and PCBs		9.5	14	0	ND	ND	ND
Aldrin alpha-BHC	µg/kg µg/kg	9.5	14	+	NO NO	ND	ND
beta-BHC	pg/kg		14		ND	ND	ND
Lindane	µg/kg	0.99	14	0	ND	ND	ND
Alpha-Chlordane	μg/l		2		ND	6	3.0
Gamma-Chlordane	μg/l		2		2.7	6	4.4
Chlordane	µg/kg	4.79	15	2	ND	56.7	52
Dieldrin	µg/kg	4.3	14	0	ND	ND	ND ND
Endrin	µg/kg	<u> </u>	14	<del>-</del>	ND	ND ND	ND ND
Endrin Aldehyde	μg/I		2		ND ND	ON CON	ND ND
			14		•		ND ND
Toxaphene	µд∕кд		4.4	_ n		k KIP	
Toxaphene  Heptachlor	µд∕кд	0.3	14	0	- NĐ	ND _	
Toxaphene Heptachlor Heptachlor Epoxide	µg/kg µg/kg	0.3	16		ND	2.5	0.18
Toxaphene Heptachlor Heptachlor Epoxide O,P*-DDT	µg/kg µg/kg µg/kg	0.3 —	16 14		ND ND	2.5 ND	0.18 ND
Toxaphene Heptacillor Heptacillor O,P'-DDT P,P'-DDT	µg/kg µg/kg µg/kg	0.3 — — 4.77	16 14 17	— — — ?	ND	2.5 ND 30	0.18
Toxaphene Heptachlor Heptachlor Epoxide O,P*-DDT P,P*-DDT Total DDT	µg/kg µg/kg µg/kg µg/kg	0.3 —	16 14		ND ND ND	2.5 ND	0.18 ND 2.4
Toxaphene Heptacillor Heptacillor O,P'-DDT P,P'-DDT	µg/kg µg/kg µg/kg	0.3 — — 4.77 51.7	16 14 17 2	2	ND ND ND 6	2.5 ND 30 27.3	0.18 ND 2.4 17

#### Summary of Sediment Quality Sampling Data Santa Monica Bay After 1991

Parameter	Units	NOAA SQuiRT Marine Sediment PELs*	Total Number of Samples	Total Number of Samples Over Guidance Values	All Data		
ı		1999			Minimum	Maximum	Mean
Total Pesticides	µg/kg		16	- I	ND	32.8	2.0
PCH-1016	pg/kg	188.79	14	0	NΩ	ND	ND
PCB-1221	μg/kg	188.79	14	0	NO	ND ND	ND:
PCB-1232	μg/kg	188.79	14	0	ND	ND	ND
PCB-1242	µg/kg	188.79	14	0	ИÐ	ND	ND
PCB-1248	μŋ/kg	188.79	14	0	ND	103	55
PCB-1254	μg/kg	188,79	16	0	ND	57.9	43
PCB-1260	μg/kg	188.79	14	0	ND	ND	ND
Total PCBs	нд/ку	188.79	0	0	ND	ND	ND
Total Chlorinated Hydrocarbons					•		
Detected	μg/kg	-	1	0	ND	GN	ND
All remaining Pesticides	μg/kg		2	Ú	3	14.5	8.75

#### Notes:

--- - No Guidance Value

NA - Not Analyzed

ND - Not Detected

1992 Chambers Group = 1993, March. Chambers Group, Inc. Comparison of the Re-establishment of Tidal Flow in the Ballona Wetland Through the Ballona Channel or Through the Marina Del Rey Entrance Channel.

1995 ABT = 1995, October 17. Advanced Biological Testing. Draft Report of Results of Chemical and Physical Testing of Sediments from Marina Del Rey South Entrance.

1996-1997 ABCL = 1997, September 15. Aquatic Bioassay Consulting Laboratory. The Marine Environment of Marina del Rey Harbor July 1998 - June 1997. PEL - Probable Effects Level, level above which adverse effects are frequently expected

1997 ABCL = 1997, September 15. Aquatic Bioassay Consulting Laboratory. The Marine Environment of Marina del Rey Harbor July 1996 - June 1997.

Buchman, M.F., 1999. NOAA Screening Quick Reference Tables, NOAA HAZMAT Report 99-1, Scattle, WA, Coastal Protection and Restoration Division, National Occopic and Almospheric Administration, 12 pages.

<sup>&</sup>lt;sup>b</sup> Apparent Effects Threshold (AET) is used instead because PEL is not listed

Table 4-16

# Summary of Sediment Quality Sampling Data Ballona Channel - Saltwater After 1991

Parameter	Units	NOAA SQUIRT	Total Number of	Total Number of		All Data	
		Marine Sediment PELs * 1999	Samples	Samples Over Guidance Values	Minimum	Maximum	Mean
General	41363 # # *	T. Marie	process to the second	And the second of the second			
Oil and Grease	mg/kg	_	9		ND	27800	4400
TRPH	mg/kg	<u> </u>	2		53	2300	1177
TPH - Gas	mg/kg		3	-	ND	ND	ND
MTBE	mg/kg	<u> </u>	2		ND	ND	ND
TPH - Diesel	mg/kg		. 3		ND	210	74
Cyanide	mg/kg		2		0.75	1,7	1.2
Silica	. mg/kg		2		290	1200	745
Strontium 90	pCi/g	<del></del>	1	<u> </u>	0.12	0.12	0.12
Hydrogen Sulfide	mg/kg		4	1	0.65	1.79	1.10
Tributyltin	mg/kg	_	7	<del>-</del>	<u> ND</u>	0.63	0.24
Bicarbonate Alkalinity	mg/kg	<del>-</del>	2		4000	8000	6000
Carbonate Alkalinity	mg/kg		2	1	ND	200	100
Alkalinity as CaCO3	mg/kg		1		730	730	730
Hydroxide Alkalinity	mg/kg		2	. –	ND	ND	ND
Total Alkalinity	mg/kg		4		6920	25100	15980
Volatilo Solids	mg/kg		7		13000	112000	52200
Hardness as CaCO3	mg/kg	_	1	· —	2200	2200	2200
Total Hardness	mg/kg		1	<u> </u>	33000	33000	33000
Total Organic Carbon	mg/kg	-	7		1.55	29500	5673
Immediate Oxygen Demand	mg/kg		5		34	2500	586
Chemical Oxygen Demand	mg/kg		5		16200	56800	42240
Total Phosphorus	mg/kg		6		1.5	400	946
Total Phosphate	mg/kg		1		1.2	1.2	1.2
Orthophosphale	mg/kg	_	4		ND	37	9
Nitrogen	mg/kg	-	1		190	190	190
Organic Nitrogen	mg/kg	_	5		170	9190	2565
TIN	mg/kg	<del></del>	2		ND ND	ND	ND
TKN	mg/kg		3		160	1100	504
Nitrate - N	mg/kg		4		ND	350	88
Nilrite - N	mg/kg		2		ND	ND	ND
Ammonia - N	mg/kg		3		ND	5.0	2
Chloride	mg/kg		8		780	14500	9204
Calcium	mg/kg		5	_	5900	10900	8640
Magnesium	mg/kg		7		211	14300	5416
Potassium	mg/kg		8	_	1600	8460	3796
Sodium	mg/kg		3	_	5010	6500	5703
Fluoride	mg/kg		1		ND	ND	ND
Sulfate	mg/kg		8		490	2150	1245
Salinity	mg/kg		2		8800	15500	12150
pH	SU	<del></del>	3		7.84	8	8
Bromide	mg/kg		2	<del></del>	ND	ND	ND
Sulfides	mg/kg	† <u> </u>	1		85	85	85
Moisture	%	43.	i		24.4	24.4	24
Spec. Cond.	mm/nos/cm		· · · · · · · · · · · · · · · · · · ·	<del></del>	26	26	26
Total Dissolved Solids	mg/kg	<del> </del>	1	<u></u> -	21000	21000	21000
VOCs	CONTRACTOR OF THE PARTY OF THE	A 4. W 10		7		WW. 272-26-27-28-3	- 16
Chloromethane	mg/kg	Wind Control of the C	4		ND ND	ND	ND
Bromomethane	µg∕kg	<del>-</del>	4		ND ND	ND	ND
Dichlorodifluoromethane			1 4		ND ND	ND	ND
Vinyl Chloride	µg/kg µg/kg		1		ND	ND	ND
Chloroethane		<del></del>	4		ND	ND ND	ND
Methylene Chloride	yg/kg ug/kg	<del>                                     </del>	7		ND ND	ND	ND ND
Trichlorofluoromethane	yg/kg	<del> </del>	1		ND	ND	NO
1,1-Dichloroethene	pg/kg	<del></del>	4	<del>                                     </del>	ND ND	ND ND	ND
1,1-Dichloroethane	ug/kg	<del></del>	4		ND ND	ND ND	ND ND
trans-1,2-Dichloroethene	µg/kg			<u> </u>	ND	ND	ND ND
	Jig/kg		7		ND	ND QN	ND ND
Chloroform	μg/kg	<del>-</del>		1	ND ND	ND ND	ND ND
1,2-Dichloroethane	µg∕kg		7		ND	ND ND	ND ND
1,1,1-Trichloroethane	pg/kg	<del></del>	7	<del></del>	ND ND	ND	
Carbon Tetrachloride	μg/kg	<u> </u>	4	_			NO NO
Bromodichloromethane	pg/kg	<del>-</del>	4	er w	NO	ND ND	ND ND
1,2-Dichloropropane	µg/kg		4		ND	ND	ND ND
trans-1,3-Dichloropropene	µg/kg		4	<del></del>	ND	ND	ND
Trichloroethene	μg/kg	41	4	0	ND	ND ND	ND.
Dibromochloromethane	μg/kg		4		ND	ND	ND
1,1,2-Trichloroethane	μg/kg		4		ND	ND ND	ND ND
cis-1,3-Dichloropropene	μg/kg	_	4		ND	ND	ND
dd 140 Blanci oproporio	յ բայռայ						
2-Chloroethylvinyl other	<u>руку</u> µg/kg		4		ND	ND	ND_
					ND ND ND	ND ND ND	ND ND ND

**Table 4-16** 

### Summary of Sediment Quality Sampling Data Ballona Channel - Saltwater After 1991

Parameter	Units	NOAA SQuiRT	Total Number of	Total Number of		All Data	
		Marine Sediment PELs * 1999	Samples	Samples Over Guidance Values	Minimum	Maximum	Mean
* Tetrachioroethene	μg/kg	57	4	0	NO.	ND	NĐ
Benzene	μg/kg		7		ND	NĐ	GN
Chlorobenzene	µg∕kg	_	4		NĐ	NĐ	ND
1,2-Dichlorobenzene	µg∕kg		4		NO	GN.	ND
1,3-Dichlorobenzene	μ <b>g/k</b> g		4		ND	NO	ND
1,4 Dichlorobenzene	µg/kg		4		ND	ND	ND
Ethylbenzene	µg/kg	4	7	. 0	ND	ND COC	ND
Toluene	pg/kg		7		ND	963	144
Total Xylenes	μg/kg	A STAN AND SERVICES STAN	4	2	l ND	33	13
SVOCs					ND ND	3.1	
Total phenois 4-Chloro-3-methytohenoi	µg/kg	<u>-</u>	3 3	<del></del>	ND ND	ND ND	1.5 ND
	µg/kg		3	0	ND	ND	ND
2-Chlorophenol	µg/kg	8		0	ND ND	ND	ND
2,4-Dichlorophenol	µg/kg	5	3		ND	ND	
2,4-Dimethylphenol	µg/kg	18	3	0	ND ND	ND ND	ND ND
2,4-Dinitrophenol	µg/kg	——————————————————————————————————————	3		ND	ND	ND ND
2-Methyl-4,6-dinitrophenol 2-Nitrophenol	μg/kg μg/kg	<del></del>	3		ND ND	ND ND	ND ND
4-Nitrophenol	pg/kg pg/kg		3		ND ND	ND	ND
Pentachlorophenol	pg/kg	17	3	6	ND	ND	ND ND
Pheno!	µg/kg	130	3	0	ND	ND	ND
2,4,6-Trichlorophenol	<del></del>	6	3	Ö	ND ND	ND	NO NO
Metals	pg/kg	Or A State : R				**************************************	
Aluminum	mg/kg		2		2900	9500	6200
Antimony	mg/kg	1	1		ND	NO	ND
Arsenic	mg/kg	41,6	9	0	NO	6.95	3.9
<sup>b</sup> Barium	mg/kg	48	1	0	41.1	41.1	41
Beryllium	mg/kg		3		ND	ND	ND
Boron	mg/kg	·	3	_	6.03	57	35
Cadmium	mg/kg	4.21	9	0	ND	1.58	0.68
Chromium	mg/kg	160.4	9	0	9.6	45.2	25
Copper	my/kg	108.2	9	0	8.1	42.3	27
Iron	mg/kg		7	<u> </u>	7200	54400	22271
Lead	mg/kg	112.18	9	3	14	161	68
Manganese	mg/kg	260	. 7	1	76.5	433	178
Mercury	mg/kg	0.696	9	0	ND 7.2	0.17 66.9	0.08
Nickel	mg/kg	42.8	9	1	···	<del></del>	
Setenium	mg/kg	1	4	0	ND ND	0.33 0.663	0.2
Silver Thallium	mg/kg	1.77	3		ND ND	ND	ND ND
Zinc	mg/kg mg/kg	271	9	0	38	202	127
Pesticides and PCBs						NO PARTIE NAME OF THE PARTIES.	
b Aldrin	μι/kŋ	9.5	4	0	ND	ND	ND
alpha-BHC	pg/kg		4	<del></del>	ND ND	ND	ND
beta-BHC	µg/kg		7	·	ND ND	ND	ND
defta-BHC	µg/kg		3	<u> </u>	ND	ND	ND
Lindane	μg/kg	0.99	4	0	ND	ND	ND
Chlordane	μg/kg	4.76	5	4	ND	210	102
alpha-Chlordane	µg/kg		1		6.6	6.6	6.6
gamma-Chiordane	µg/kg		1		7.7	7.7	7.7
Dieldrin	μg/kg	4.3	4	0	ND ND	NO	ND
Endrin	µg/kg		4		ND	ND	ND
Endrin Aldehyde	μg/kg	<del> </del>	1	<del></del>	ND ND	ND ND	ND ND
Toxaphene	µg∕kg		4		ND ND	ND ND	ND ND
Heptachlor	µg/kg	0.3	4	0	ND	ND ND	ND ND
Heptachlor Epoxide	pg/kg		5	<u> </u>	NO NO	ND ND	ND ND
O,P'-DDT P.P'-DDT	pg/kg	4,77	4 6	4	ON GR	160	ND 52
0,P-D0D	µg/kg µg/kg	4.77	7	<u> </u>	ND	ND	ND
P,P'-DDD	yg/kg yg/kg	7.81	9	3	ND ND	120	17
0,P-008	pg/kg	7.01	3	- J	ND	ND ND	ND
P,P'-DDE	pg/kg	374.17	9	. 0	ND ND	190	41
Total DDT	hō/kg	51.7	1	0	17.8	17.8	18
Total Pesticides	pg/kg		4		ND	600	292
PCB-1016	µg/kg	188.79	4	0	ND	ND	ND
PCB-1221	μg/kg	188.79	4	0	ND	ND	NO
PCB-1232	μg/kg	188.79	4	0	ND	ND	GM
				0	ND	ND	ND
PCB-1242	μg/kg	108,79	4				
PCB-1242 PCB-1248 PCB-1254	μg/kg μg/kg	198.79 198.79 188.79	4 4	0	ND ND	ND 20	ND 3

#### Summary of Sediment Quality Sampling Data Ballona Channel - Saltwater After 1991

Parameter	Units	NOAA SQUIRT	Total Number of	Telal Number of		All Data	
		Marine Sediment PELs 1999	Samples	Samples Over Guidance Values	Minimum	Maximum	Mean
PCB-1260	µg/kg	188.79	4	O	ND	ND	ND
Total Chlorinated Hydrocarbons							
Detected	µg∕kg		4		ND	600	292
All remaining Pesticides	μ <b>ο/</b> κα	i –	1	<u> </u>	14.3	14.3	14

#### Notes:

- · · No Guidance Value
- NA Not Analyzed
- ND Not Detected
- 1992 Chambers= 1993, March. Chambers Group, Inc. Comparison of the Re-establishment of Tidal Flow in the Ballona Wetlands Through the Ballona Channel or Through the Marina Del Rey Entrance Channel.
- 1996-1997 ABCL = 1997, September 15. Aquatic Bioassay Consulting Laboratory. The Marine Environment of Marina dol Rey Harbor July 1996 June 1997. 1996-1998 CDM = 1996, August 14. Camp Dresser & McKee. Ballona Creek Water and Sediment Quality Sediment Quality Report, 1995/1996, Wet Weather Season, Playa Vista, California and 1998, October. Camp Dresser & McKee. Playa Vista Area A and Area B Wetlands Surface Water and Sediment Monitoring Report.
- PEL Probable Effects Level, level above which adverse effects are frequently expected
- 1997 ABCL = 1997, September 15, Aquatic Bioassay Consulting Laboratory. The Marine Environment of Marina del Rey Harbor July 1996 - June 1997.
- Buchman, M.F., 1999. NOAA Screening Quick Reference Tables, NOAA HAZMAT Report 99-1, Seattle, WA, Coastal Protection and Restoration Division, National Oceanic and Almospheric Administration, 12 pages.
- <sup>b</sup> Apparent Effects Threshold (AET) is used instead because PEL is not listed

### Summary of Sediment Quality Sampling Data Ballona Wetlands - Saltwater After 1991

Parameter	Units	NOAA SQuiRT Marine Sediment PELs "	Total Number of Samples	Total Number of Samples Over Guldance Values		All Data	
		1999			Minimum	Maximum	Mean
General	# · · · · · · · · · · · · · · · · · · ·	400		100 120			· · · · · · · · · · · · · · · · · · ·
Oil and Grease	mg/kg		1	. –	62	62	62
<u> ተበቦ</u> ዘ	mg/kg		1		50	50	50
TPH - Gas	mg/kg		1		ŊĎ	ND.	NO
MTBE	mg/kg	_	1	_	ND	ND	ND
TPH - Diesel	mg/kg		1		ND	ND	ND
Cyanide	mg/kg		1		ND	ND	ND
Silica		<del>i 1</del>	<u>;</u>		1500	1500	1500
	mg/kg	-			0.23	0.23	0.2
Strontium 90	pCi/g		1				-
Bicarbonate Alkalinity	mg/kg		5		800	53000	16240
Carbonate Alkalinity	mg/kg		5	<del>-</del>	ND	900	290
Hydroxide Alkalinity	rng/kg		5		ND	ND	ND
Volatile Solids	mg/kg		5	<del></del>	28000	83000	56200
Ammonia - N	mg/kg		5		ND	ND	ND
Bromide	mg/kg		5		ND	ND	ND
Chloride	mg/kg		5		460	6700	3650
Nitrate - N	mg/kg		5		NO	ND	ND
Nitrite - N	mg/kg		5		ND	ND	ND
			5		ND	ND ND	ND D
Orthophosphate	mg/kg	<del>-</del>	5 5	<del></del>	ND ND	17000	8960
Salinity	mg/kg	<del></del>			260	1400	
Sulfate	mg/kg		5	<u> </u>			730
TIN	mg/kg		5		ND ND	ND	NO.
TKN	mg/kg	٠.	. 5		190	680	520
TOC	mg/kg		8	<u> </u>	2080	45000	14740
Total Phosphorus	mg/kg	· [	5		240	380	280
pΗ	SU		5	_	7.3	8.7	8.2
Calcium	mg/kg		5	<del></del>	3900	30000	15200
Magnesium	mg/kg		5		5500	7700	6700
Potassium	mg/kg		5		2700	5000	3700
			5		5500	6500	3880
Sodium	mg/kg			<del></del>	ND	ND ND	ND
Tributyltin	µg/kq		0				
VOCs				**************************************		A 438 15 15 15	
Methytene chloride	<u>μg/kg</u>		. 1		ND	NO	ND
1,2-Dichloroelhane	μg/kg		1		ND	NĐ	ND
Chloroform	<u>µд/кд</u>		· · · ·		ND	ND	ND
1,1,1-Trichloroetsane	i µg/kg	_	5	<u> </u>	ND	NĐ.	ND
Benzene	µ9∕кд	- [	2	_	ND	15	7.5
Toluene	µg/kg		2		ND	7.9	4.0
Ethylbenzene	µg/kg	4	1	0	ND	ND	ND
		<del>                              </del>	1	0	ND	ND	ND
m,p-Xylene	µg/kg	1		<del></del>			
Acetone	ha/ka	. – :	1 1	<del></del>		ND	ND
Carbon Disulfide	μg/kg				ND		
	F3 · · 3	<del></del>	1		ND	Ni	NO
n-Isopropyltolæne	μα/kg		1		ND ND	ND	NĐ
p-Isopropyltoluene SVOCs	μα/kg	——————————————————————————————————————	1		ND ND	ND	NĐ
SVOCs	µg/kg 2 og	— — ——————————————————————————————————	1		ND ND	ND	
	μα/kg	— — — ————————————————————————————————	1 1 2 2/30 × 2 3	_	ND ND	ND	ND
SVOCs Total phenols 4-Chlorn-3-methylphenol	рд/kg рд/kg рд/kg		1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		ND ND 4.5 ND	ND 4.5 ND	ND 4.5 NO
SVOCs Total phenols 4-Chloro-3-methylphenol 2-Chlorophenol	µg/kg µg/kg µg/kg µg/kg		1 1 1 1 1		ND ND 4.5 ND ND	ND 4.5 ND ND	ND 4.5 NO ND
SVOCs Total phenois 4-Chlore-3-methylphenoi 2-Chlorephenoi 3-2,4-Dichlorephenoi	hāykā hāykā hāykā hāykā		1 1 1 1 1 1	  0 0	ND ND 4.5 ND ND	ND 4.5 ND ND ND	ND 4.5 NO ND NO
SVOCs Total phenols 4-Chlore-3-methylphenol 2-Chlorephenol 2,4-Dichlorephenol 2,4-Dimethylphenol	µg/kg µg/kg µg/kg µg/kg		1 1 1 1 1 1 1		ND ND 4.5 ND ND ND ND	ND 4.5 ND ND ND ND ND	ND 4.5 NO ND NO NO
SVOCs Total phenois 4-Chlore-3-methylphenoi 2-Chlorephenoi 3-2,4-Dichlorephenoi	hāykā hāykā hāykā hāykā		1 1 1 1 1 1	  0 0	ND ND 4.5 ND ND	ND 4.5 ND ND ND	ND 4.5 NO ND NO
FVOCs Total phenols 4-Chlora-3-methylphenol 2-Chlorophenol 2,4-Dichlorophenol 2,4-Dimethylphenol 2,4-Dimitrophenol	hayka hayka hayka hayka hayka		1 1 1 1 1 1 1	  0 0	ND ND 4.5 ND ND ND ND	ND 4.5 ND ND ND ND ND	ND 4.5 NO ND ND ND
FOOCS Total phenois 4-Chlore-3-methylphenoi 2-Chlorephenoi 2-4-Dichlorephenoi 2-4-Dimethylphenoi 2-4-Dinitrophenoi 2-Methyl-4,6-dinitrophenoi	hayka hayka hayka hayka hayka hayka hayka hayka	8 5 18	1 1 1 1 1 1 1 1		ND ND ND 4.5 ND ND ND ND ND ND ND	ND 4.5 ND ND ND ND ND ND ND ND ND	ND 4.5 NO ND ND ND ND ND
FVOCs Total phenois 4-Chlore-3-methylphenoi 2-Chlorophenoi 2,4-Dichlorophenoi 2,4-Dimethylphenoi 2,4-Dinitrophenoi 2-Methyl-4,8-dinitrophenoi 2-Nitrophenoi	hayka hayka hayka hayka hayka hayka hayka hayka hayka	8 5 18	1 1 1 1 1 1 1 1 1		ND ND ND 4.5 ND ND ND ND ND ND ND	ND 4.5 ND	ND 4.5 NO ND NO ND NO ND NO ND NO ND ND ND ND
FOOCS Total phenois 4-Chlore-3-methylphenoi 2-Chlorephenoi 2,4-Dichlorephenoi 2,4-Dimethylphenoi 2,4-Dinitrophenoi 2-Methyl-4,6-dinitrophenoi 2-Nitrophenoi 4-Nitrophenoi	hayra hayra hayra hayra hayra hayra hayra hayra hayra hayra	8 5 18 —————————————————————————————————	1 1 1 1 1 1 1 1 1 1		ND N	ND 4.5 ND	ND 4.5 NO ND
FOOCS Total phenois 4-Chlora-3-methylphenoi 2-Chlorophenoi 2,4-Dichlorophenoi 2,4-Dimethylphenoi 2,4-Dimitrophenoi 2-Methyl-4,8-dimitrophenoi 2-Nitrophenoi 4-Nitrophenoi Pentachlorophenoi	pg/kg		1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND 4.5 ND	ND 4.5 NO ND
Formula (1997)  Syocs Total phenols 4-Chlorn-3-methylphenol 2-Chlorophenol 2-4-Dinhlorophenol 2-4-Dinhlorophenol 2-Methyl-4,8-dinitrophenol 2-Nitrophenol 4-Nitrophenol Perstachlorophenol Phenol	hayra hayra hayra hayra hayra hayra hayra hayra hayra hayra	8 5 18 —————————————————————————————————	1 1 1 1 1 1 1 1 1 1		ND N	ND 4.5 ND	ND 4.5 NO ND
Formula (1997)  Syocs Total phenols 4-Chlorn-3-methylphenol 2-Chlorophenol 2-4-Dinhlorophenol 2-4-Dinhlorophenol 2-Methyl-4,8-dinitrophenol 2-Nitrophenol 4-Nitrophenol Perstachlorophenol Phenol	pg/kg		1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND 4.5 ND	ND 4.5 NO ND
SVOCs Total phenols 4-Chlora-3-methylphenol 2-Chlorophenol 2,4-Dimethylphenol 2,4-Dimethylphenol 2,4-Dinitrophenol 2-Methyl-4,8-dinitrophenol 4-Nitrophenol 4-Nitrophenol Pertachlorophenol Phenol 2,4-6-Trichlorophenol	pg/kg		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND	ND 4.5 NO ND
FOOCS Total phenols 4-Chloro-3-methylphenol 2-Chlorophenol 2,4-Dirintrophenol 2,4-Dimitrophenol 2-Methyl-4,8-dinitrophenol 2-Nitrophenol 4-Nitrophenol 4-Nitrophenol 5-Pentachlorophenol 6-Phenol 6-2,4,6-Trichlorophenol Metals	pg/kg				ND N	ND	ND 4.5 NO ND
FOOCS Total phenols 4-Chlorn-3-methylphenol 2-Chlorophenol 2-A-Dichlorophenol 2-4-Dimethylphenol 2-Methyl-4,6-dinitrophenol 4-Nitrophenol 4-Nitrophenol Pentachlorophenol 2-4-6-Trichlorophenol Metass Aluminum	pg/kg	8 5 18 —————————————————————————————————	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND	ND 4.5 NO ND
SVOCs Total phenols 4-Chlora-3-methylphenol 2-Chlorophenol 2-A-Dichlorophenol 2-A-Dimethylphenol 2-A-Dimitrophenol 2-Methyl-4,8-dinitrophenol 4-Nitrophenol 4-Nitrophenol Pertachlorophenol 2-4,6-Trichlorophenol Metals Aluminum Antimony	pg/kg		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND  4.5 ND	ND 4.5 NO ND
Total phenols 4-Chlorn-3-methylphenol 2-Chlorophenol 2-A-Dichlorophenol 2-A-Dimethylphenol 2-A-Dimethylphenol 2-Methyl-4,8-dinitrophenol 4-Nitrophenol 4-Nitrophenol Pertachlorophenol Phenol 2-4,6-Trichlorophenol Metals Aluminum Antimony Arsenic	pg/kg		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND	ND 4.5 NO ND
SVOCs Total phenols 4-Chlora-3-methylphenol 2-Chlorophenol 2,4-Dinthorophenol 2,4-Dinitrophenol 2,4-Dinitrophenol 2-Methyl-4,8-dinitrophenol 2-Nitrophenol 4-Nitrophenol Perstachlorophenoi Phenol 2,4,6-Trichlorophenol Metals Aluminum Antimony Arsenic 8 Barium	pg/kg		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND	ND 4.5 NO ND
Total phenols 4-Chlorn-3-methylphenol 2-Chlorophenol 2-A-Dichlorophenol 2-A-Dimethylphenol 2-A-Dimethylphenol 2-Methyl-4,8-dinitrophenol 4-Nitrophenol 4-Nitrophenol Pertachlorophenol Phenol 2-4,6-Trichlorophenol Metals Aluminum Antimony Arsenic	pg/kg		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND  4.5  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	ND 4.5 NO ND
SVOCs Total phenols 4-Chlora-3-methylphenol 2-Chlorophenol 2,4-Dinthorophenol 2,4-Dinitrophenol 2,4-Dinitrophenol 2-Methyl-4,8-dinitrophenol 2-Nitrophenol 4-Nitrophenol Perstachlorophenoi Phenol 2,4,6-Trichlorophenol Metals Aluminum Antimony Arsenic 8 Barium	pg/kg	8 5 18 —————————————————————————————————	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND	ND 4.5 NO ND
SVOCs Total phenols 4-Chlorn-3-methylphenol 2-Chlorophenol 2,4-Dirhlorophenol 2,4-Dimethylphenol 2,4-Dimitrophenol 2-Methyl-4,8-dinitrophenol 4-Nitrophenol 4-Nitrophenol Pertachlorophenol 2,4-6-Trichlorophenol Metals Aluminum Antimony Arsenic Barium Berytlium	pg/kg	18 5 18 17 130 6 6 41.6 48	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND  4.5  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	ND 4.5 NO ND
SVOCs Total phenols 4-Chlora-3-methylphenol 2-Chlorophenol 2-A-Dichlorophenol 2-4-Dinitrophenol 2-Methyl-4,6-dinitrophenol 2-Nitrophenol 4-Nitrophenol 4-Nitrophenol 4-Nitrophenol 5-Pentachlorophenol 6-Phenol 6-2,4,6-Trichlorophenol Metals Aluminum Antimony Arsenic 7-Banium Beryllium Boron Cadmium	pg/kg	8 5 18 — — — — — — — — — — — — — — — — — —	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND  4.5 ND	ND 4.5 NO ND
SVOCs Total phenols 4-Chlora-3-methylphenol 2-Chlorophenol 2-A-Dichlorophenol 2-4-Dimethylphenol 2-4-Dimethylphenol 2-Methyl-4,6-dinitrophenol 4-Nitrophenol 4-Nitrophenol 2-Nethyl-6-Trichlorophenol Phenol 2-4,6-Trichlorophenol Metals Aluminum Antimony Arsenic Barium Beryllium Boron Cadmium Chromium	pg/kg	8 5 18	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND	ND 4.5 NO ND
SVOCs Total phenols 4-Chlora-3-methylphenol 2-Chlorophenol 2-A-Dichlorophenol 2-4-Dinitrophenol 2-Methyl-4,6-dinitrophenol 2-Nitrophenol 4-Nitrophenol 4-Nitrophenol 4-Nitrophenol 5-Pentachlorophenol 6-Phenol 6-2,4,6-Trichlorophenol Metals Aluminum Antimony Arsenic 7-Banium Beryllium Boron Cadmium	pg/kg	8 5 18 — — — — — — — — — — — — — — — — — —	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ND N	ND  4.5 ND	ND 4.5 NO ND

#### **Summary of Sediment Quality Sampling Data Ballona Wetlands - Saltwater** After 1991

Parameter	Units	NOAA SQuiRT Marine Sediment	Total Number of Samples	Total Number of Samples Over Guidance Values		All Data	
	İ	1999			Minimum	Maximum	Mean
Lead	mg/kg	112.18	8	2	3.2	258	67
Manganese	mg/kg	260	5	0	150	260	190
Mercury	mg/kg	0.696	8	0	0.028	0,184	0.07
Molybdenum	rng/kg		3	_	0.31	1.54	3.11
Nickel	mg/kg	42.8	8	Ð	7.66	29	19.7
Selenium	mg/kg	1	8	0	ND	ND	NO
Silver	mg/kg	1.77	. 8	0	ND	1.21	0.26
Thallium	mg/kg		8		NO	0.376	0.10
Vanadium	mg/kg	57	3	0	17,9	32.7	27
Zinc	mg/kg	271	8	2	40	359	128
Pesticides and PCBs	- 10	CHE THE PERSON NAMED IN	996 - VA	77-7480 - 33-75	andros de	i i i i i i i i i i i i i i i i i i i	10.00
beta-BHC	<b>µg/k</b> g		1	<del>-</del>	ND	ND	ND
delta-BHC	µg/kg		1	<u> </u>	ND	ND	, ND
O,P-000	µg∕kg		1	1 –	GN	МĐ	ND
P,P'-DDD	ug/kg		4	_	В	ND	NĐ
O,P'-DDE	μg/kg		1	<u></u>	GN	ND	ND
P.P'-DDE	рд/кд	374.17	4	0	ND	ND	ND
P,P*·DDT	µg/kg	4.77	3	1	ND	6.9	2.3
PCB-1254	μg/kg	188.79	11	С	ND	ND	ND
PCB-1260	µg/kg	188.79	3	0	ND	92	31
Chlordane	µg/kg	4,79	3	} 1	ND	84	28

#### Notes:

-- No Guidance Value

NA - Not Analyzed ND - Not Detected

1998 CDM = 1998, October, Camp Dresser & McKee. Playa Vista Area A and Area B Wetlands Surface Water and Sediment Monitoring Report. 2000 GS = 2000. GeoSyntec Consultants. Data.

PEL - Probable Effects Level, level above which adverse effects are frequently expected

1997 ABCL - 1997, September 15, Aquatic Bioassay Consulting Laboratory. The Marine Environment of Marina del Rey Harbor July 1996 - June 1997.

<sup>\*</sup>Buchman, M.F., 1999. NOAA Screening Quick Reference Tables, NOAA HAZMAT Report 99-1, Seattle, WA, Coastal Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12 pages.

<sup>&</sup>lt;sup>b</sup> Apparent Effects Threshold (AET) is used instead because PEL is not listed

Table 4-18

### Summary of Sediment/Upland Soil Quality Sampling Data Ballona Wetlands - Saltwater After 1991

Parameter	Units	NOAA SQuIRT Marine Sediment PEL9 "	Total Number of Samples	Total Number of Samples Over Guidance Values		All Data	
		1999			Minimum	Maximum	Mean
General		\$5 19 00°		*			
Oil and Grease	mg/kg		1	0	43	43	43
TRPH	mg/kg		1	0	40	40	40
TPH - Gas	mg/kg		1	0	ND	NO:	ND
MTBE	mg/kg		1 1	0	ND	NO.	ND
TPH - Diesel	mg/kg		. 1	0	6.8	6.8	6.8
Tributyl Tin	μg/kg		1 1	0	NO NO	ND din	ND NO
Cyanide Silica	mg/kg mg/kg	<del></del>	1	0	300	300	300
Strontium 90	pCi/g		1	0	0.1	0.1	0.1
Bicarbonate Alkalinity	mg/kg		2	0	4600	13000	8,800
Carbonate Alkalinity	mg/kg		2	0	ND	270	135
Hydroxide Alkalinity	mg/kg		2	0	UND	ND	ND
Volatile Solids	mg/kg		2	. 0	33000	56000	44,500
Ammonia • N	mg/kg		4	0	ND	NĐ	ND
Bromide	mg/kg	<b>_</b>	4	0	NĐ	130	39
Chloride Nicola	mg/kg		4	0	3600 ND	31000 ND	12,050
Nitrate - N Nitrite - N	mg/kg mg/kg	<del> </del>	4	0	ND ND	ND I	ND ND
Orthophosphale	mg/kg mg/kg		4	0	ND	ND ND	ND
Salimity	g/kg	<del></del>	4	0	7.7	57	22.83
Sulfate	mg/kg		4	0	1700	4100	3,150
TIN	mg/kg		4	0	ND	ND	ND
TKN	mg/kg		4	0	110	520	300
100	mg/kg		4	0	ND	29000	12,400
Total Phosphorus	mg/kg		4	0	200	140	310
рH	នប		4	0	7.7	8.1	7.9
Calcium	mg/kg		2	0	7800	12000	9,900
Magnesium Polassium	mg/kg mg/kg		2 2	0	8400 4500	9000 4700	8,700 4,600
Sodium	mg/kg	<del></del>	2	ŏ	5300	7300	6,300
VOCs				Y			
Methylene chloride	µg/kg	-	1	0	ND	ND	ND
1,2-Dichloroethane	μg/kg		1	0	ND	ND	ND
Chloroform	µg/kg	<u> </u>	1	0	ND	ND	ND
1,1,1-Trichloroethane	µg/kg	<u> </u>	1	0	ND	ND	ND
Benzene	μg/kg		1	0	ND	ND	ND
Toluene	μg/kg	4	<del>'</del>	0	ND	ND ND	ND
Ethylbenzene SVOCs	μg/kg	4 			ND		ND
Total phenois	µg∕kg		1	0	1.2	1.2	1.20
4-Chloro-3-methylphenol	µg/kg	<del> </del>	1	1 0	ND	ND	ND
2-Chlorophenol	µg/kg	8	1	0	ND	ND	ND
<sup>b</sup> 2,4-Dichlerophenol	nayka hayka	5	1	0	ND ND	NU	ND
2,4-Dimethytohenos	ug/kg	18	1	1	ND	ND	ND
2,4-Dinitrophenal	pg/kg	† <u></u>	1	ŏ	ND	ND	ND.
2-Methyl-4,6-dinitrophenol			1	0	ND	ND	ND
2-Nitrophenol	µg/kg		i	O.	ND	ND	ND
4-Nitrophenol	μg/kg	L. –	1	. 0	ND	ND	ND
Pentachilorophenol	µg/kg	17	11	0	ND	ND	NÜ
Phenol	µg/kg	130	1	0	ND ND	ND	ND
2,4,6-Trichlorophenol	μg/kg	6	1	0	ND	ND	ND
Metals	-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		e# site site/in		F. Price (1994)	nteriore.
Aluminum	mg/kg	<del></del>	2 2	0	12000	13000	12,500
Arsenic	mg/kg	41.6		0	ND UD	5.4 ND	2.7
Beryllium Boron	mg/kg mg/kg		2 2	0	ND 67	ND 70	NO 60.5
Cadmium	mg/kg mg/kg	4.21	2	0	ND	ND ND	68.5 NO
	mg/kg	160.4	2	0	22	25	23.5
	11197114	108.2	2	0	23	28	25.5
Chromium	mo/ke			Ö	22000	24000	23,000
	mg/kg mg/kg		2				
Chromium Cooper	mg/kg mg/kg		2 2	o ·	4.3	24	14.15
Chromium Copper Iron	mg/kg		2 2		4.3 360	24 440	14.15 400
Chromium Copper Iran Lead Manganese Mercury	mg/kg mg/kg mg/kg mg/kg	112.18 — 0.696	2 2 2	0 0 0	360 0.05	440 0.094	400 0.07
Chromium Copper Iron Lead Manganese Mercury Nickel	mg/kg mg/kg mg/kg mg/kg	112.18 0.696 42.8	2 2 2 2	0 0 0	360 0.05 30	440 0.094 35	400 0.07 32.5
Chromium Copper Iron Lead Manganese Mercury Nickel Selenium	mg/kg mg/kg mg/kg mg/kg mg/kg	112.18 	2 2 2 2 2 2	0 0 0 0	360 0.05 30 ND	440 0.094 35 ND	400 0.07 32.5 NO
Chromium Copper Iron Lead Manganese Mercury Nickel	mg/kg mg/kg mg/kg mg/kg	112.18 0.696 42.8	2 2 2 2	0 0 0	360 0.05 30	440 0.094 35	400 0.07 32.5

#### Summary of Sediment/Upland Soil Quality Sampling Data Ballona Wetlands - Saltwater After 1991

Parameter	Units	NOAA SQuiRT Marine Sediment PELs *	Total Number of Samples	Total Number of Samples Over Guidance Values		Ail Data	
L		1999		]	Minimum	Maximum	Mean
Pesticides and PC8s	1.0	w worm	SCHOOL STATE	0.85 (1	7. N. A. 14. 11	TO PERSON P	Marie Brown
beta-BHC	µg/kg	_	1	0	ИD	ND	ND
delta-BHC	pg/kg		1	0	ND	ND	ND
0,P-000	ug/kg	_	1	0	ND	ND	ND
P,P-000	ug/kg	7.81	1	0	МD	ND	ND
O,P'-DDE	⊭g/kg	-	1	Ü	ND	ND.	ND
P.P'-DDE	μg/kg	374.17	1	0	ND	ND	ND
(Aroclor) PCB-1254	μ <b>g/kg</b>	188.79	1	0	ND	ND	ND

### Notes:

Q - Not Detected

NA - Not Analyzed

NA - Not Analyzed
ND - Not Detected
PEL - Probabile Effects Level, level above which adverse effects are frequently expected
1998 CDM = 1998, October. Camp Dresser & McKee. Playa Vista Area A and Area B Wellands Surface
Water and Sediment Monitoring Report.

\*Buchman, M.F., 1999, NOAA Screening Quick Reference Tables, NOAA HAZMAT Report 99-1, Seattle, WA, Coastal
Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12 pages.

\*Apparent Effects Threshold (AET) is used instead because PEL is not listed

\*Indicates exceeds guidance values

## Appendix A Existing Data

## Appendix A-1 Advanced Biological Testing Existing Data

Table A-1.1

Summary of 1995
Playa Vista Sediment Quality Sampling
Santa Monica Bay
ABT

	_	*****	1995 ABT	1995 ABT	- HE - HE	- Lav	ART	487	481	ABI	¥81
Parameter Uni	E III	SQUIRT	VCH9E-1	VCH96-2	VCH95-3	VCH95-4	УСН65-5	VCH85-6	VCH95-7	VCH95-8	VCH96-9
	2	Marine Sediment	60 Mouth Breakwater	80 Nouth Breatwater		BO Mouth Breakenster	SC Mouth Breakwater	80 Mouth Brestwerer		HDR Mouth	MDR Wouth
		1886	10/17/95	10/17/96	BO Mouth Breakwater 10/17/95	10/17/95	10/17/95	10/17/95	BD Mouth Breshwater 10/17/95	10/17/95	10/17/95
	4.35. W. + O.	14.50			The second second	W. L. S. See, 8 1 1		20.00	Part of the Part o		
TRPH mg	pa vom	ı	62.4	171	127	337	874	186	259	411	462
	rg,k3	1	2.71	3.39	0	8.24	5.93	1,32	229	4:34	8.85
	na/ka		D.	3.5	Ç.	5.41	7.24	1,38	0	13.8	5.45
Mondoutylt F	DX/61	1	0	2.79	J	5.56	3.7	0	0	4.93	14.6
Cry Wt.)	,	1	70.2	78.1	62.9	79.5	65.3	83.2	81.2	81.1	0.9
	mo.kc		26.1	.020	32.3	1080	1170	55.9	13.8	1000	J351
Suffices	TCK	,	3	0	Ç	P	٥	0	ç	3	6.2
		1	283	0.84	6.27	1.02	2,76	0.45	0.26	C.62	5.0
		\$40.55 PATE 1						は とうない とう			
-ethythexylionthalate	DAY:01	1	٥	0	0	D	0	¢	0	. c	0
ľ	DYKO	63	. 33.EC	0	744	223	. 967	0	452	ن	2300
	DJ/COT	228	٠	0	0	J	o	0		ą	0
	oy,on	9	Ū	0	Ō	2	0	٥	0	0	0
5	no/ka	Ç	0	0	0	Ü	0	0	1360	ů	0
	S A	15	0	c	0	٥	0	0	ن	0	c
	novko	390.84	0	0	, c	, ,		0	ن	0	0
ene	100 Kg	127.87	0	0		٥		0		Û	
	N C	6.88		0	0	ن	0	0	ڼ	0	c
Flucrene	Poyka Poyka	144.35	0	0	C	ڼ	3	0	ပ	0	C
	Ę Ka	543.53	0	31.9	0	162	, EES	279	3	0.	c [
	Parka Parka	245	0	0	0	ن	226	0	0	0	1430
here	ş	1493.54	0	82.4	33.9	125	1310	961	241	197	252
	3	1397.8	34	₩,4	36.6	336	1240	511	355	174	, CEC2
anthracene	Poke Poke	692,53	34.8	29.6	6	136	467	<b>6</b>	Ф	Ð	1900
ľ	- F	845,98	0	54.8	C	157	726	332	Û		697
nthracene	Pyke Byke	ı	0	38.4	6	128	343	163	0.	0	1030
	DX/DD	1800	0	52	•	351	665	244	0	0	685
-	riorka	763.22	0	0	C	0	569	224	٥	6	792
	DJ/Gri	134,61	0	D	c	0	Э	٥	ů		843
<sup>в</sup> Incenc (1.2.3-с.с)ругеле	Q.kg	909	0	0	C	0	ن	0	ū	0	. 0
	ng/kg	929	c	0	c	0	9	D	ō	С	0
	ng.kg	i	6	0	G	0	0	ō	0	° c	0
ľ	DXON	331	0	o	0	0	ū	ပ	0	c	0
	DX/DH	2	0	₽	C	0	0	y	0	c	0
lous	uaka	FL1	0	o	0	0	٥	٥	0	c	0
	novid	18	c	D	c	0	0	J	0	C	0
	DD/RG	.1	C	D	c	٥	0	ပ	0	c.	0
liccheno.	16.YG	,	c	0	0	0	0	0	0	0	ņ
Ì	pg/gc		6 .	٥	C	ō	٥	0	0	0	0 .
	5x/6ri		0	0	0	0	0	D	0	0	0
Icropher.ol	ba/gri	1.5	0	D	0	0	0	2	0	0	0
	pa/gr	130	C	0	a	0	0	D C	, 0	c	0
chlorophenol	ngyd	Ψ	c	D	0	0	0	3	0	٥	0

# Summary of 1995 Playa Vista Sediment Quality Sampling Senta Monica Bay ABY

		9	1985 ABT	1985 #65	-24	¥RT.	ART	184	ABT	ABT	ABT
Parameter	S I	SOURT	VCH95-1	VCH95-2	VCH95-3	VCH95-4	VCH95-5	VCH95-6	VCH95-7	VCH85-8	VCH959
		Marine Sediment	BC Mouth Brancwater	BC Mouth Breakwater		BC Mouth Breakwater	80 Vouts Breskwalet	RC Mouth Breestwater		NOR Bout	LEDA Mouth
		PELS	10/17/95	10/17/95	BC Mouth Breakwriter 10/17/95	10/17/95	10/17/95	10/17/95	BC Kouth Breakwaler 10/17/95	10/17/95	10/17/95
Merais			100 March 1889	11000000		25,000				22.0	-
Arseric	mayka	4:,6	5,1	2.1	1,29	1,23	3.83	2.07	\$	2	ń j
Sertum	mg/kg	48	:4.5	20.4	20.4	27.2	65.9	24.2	38.9	36.9	62.5
Service	marka	,	0,03	0.118	0.101	0.108	0.239	0.101	3,133	0.5	0.227
Cadmium	morka	4.21	0		0	0.289	0 456	ن	C	0.609	0.5
Chrometer	morke	160.4	6	12	14.8	.3.6	26.5	16.6	15	5.7.5	27.2
2 Cohall	ma/ka	2	2.62	2.51	2.53	3.8	5.5	388	3.53	3.77	5.27
Corpe	mov/co	1082	5.74	5,51	9.81	15.6	37.2	12	6.9:	20.8	41.5
1997	MOVEN.	ľ	22.6	55.3	42.2	553	148	47.2	70.8	76.6	175 -
Marin	movka	L	1800	2,047	0.036	0.084	5.156	0.041	0.042	0.067	C.127
Malwoonum	movka	L	0.402	0.478	0.408	0.8	2.11	0.474	0.387	0.904	2.78
EXX	morka	42.8	8.88	6.36	99'9	8.4	15.9	7.24	8.7	9.036	15.2
Salonium	movka		₹Z	Ϋ́	¥.¥	ź	AN	47	۸A	¥V.	٥
Siver	mayka	17	₹Z	ΑN	¥ž	ΑN	0.251	0.963	0	٥	٩
C Venezime	a de la constante de la consta	L	19.1	13.8	12.8	14.6	4762	31.1	- 14	19.2	56.6
Zirc	no se		33.2	39.7	46.8	92.1	204	500	8C.9	107	243
Pesticides and PCBs			, and the second	10000					T. Liebank	1000	
4,4 . 0.20	ng⁄kg	L		3.39	Ç	5,58	7.04	a	3.36	7	
4,4' - DOE	ησγκα	374.17	3.94	5.32	Ç	483	96:	٥	2.98	3.86	//
4.4' - COT	pgykg	4.77	2	0	Û	-	٥	5			200
<sup>5</sup> Aldrin	русп	9.5	၁	0	0	J	0	٥		0	
alpha-8-10	DyGr		3	0	0	٥	٥			5	
beta-8HC	DAVO		,	0	0	ی	0	٥			
della-840	D3/Kd			0	0	ن	0	١	2	٥	
Undane	Doyon	-	φ	0	0	ن	Đ	0	٥	O	
Chordane	na/ka		0	0	0	٥	D	٥	٥	0	58.7
Deleti	DA/KG		0	٥	6	0	0	٥	٥	-	5
Endrin	Laykg		0	P	6	0	S	٥	ان	-	5
Endosultan I	roka	1	0	0	c	0	3	0	2	c	2
€ndoscitan ti	uokg	ı	0	0	3	0		0		C	
Endogullan Sufate	Day/Bri		0	0	c	Ō	ر	٥		C	
Engin Aldehyde	UDVKG	L	0	2	0	ō	ټ		٥		ò
Methaxychior	naya	L	C	2	0	0	0	0	٥	0	0
Toxachene	narka	L	c	9	Ó	6	٠	0	0	0	0
P Heptachor	DG/kg	0.3	٥	0	0	C	0	9		0	٥
Heotechior Epcxide	DC/kc	1	0		0	c	0	2	C	0	0
PCB-1016	ncyke	L		0	0	q	0	2	c		0
PCB-1221	nc.ko	L	0	0	0	0	0	ن	C	0	0
PCB-1232	o Ko	L	٥	0	0	0	0	ټ	C	٥	٥
PCB-1242	coko	L	0	0	0	0	ð	ΰ	٥	0	0
PCB-1248	roko.	L	0	0	0	٥	c	0	0	0	EG.
PCB-1254	0,01		37	47.3	57.9	1.69	C .	0	0	0	Б
PCB-1260	5,64	188.79	0	0	0	٥	c	0	٥	0	0

Notes:

0 - Not Described

No. Not Analyzed

No. Not Analyzed

No. Not Described

No. Not Described

Pole - Not Described

Pole - Not Described

1995 AGT = 1995, October - 77. Advanced Biological Testing.

1995 AGT = 1995, October - 77. Advanced Biological Testing.

Dot - Report of Research to Chemical and Phylocial Testing.

10 Sediments from Natility and Pely South Entrance.

1 Sediments from Natility and Pely South Entrance.

1 Research NOAA - KACATT Report of Pely South Entrance.

1 Research NOAA - KACATT Report of Pely South Entrance.

1 Research NOAA - KACATT Report of Pely South Entrance.

1 Research of Research Testing Control of Pely South Entrance.

1 Research of Pely South Entrance.

2 Repeated Testing South Pely 
Table A-1.1

# Summary of 1995 Playa Vista Sediment Quality Sampling Santa Monto Bay ABT

			- N. C.	100 100	1682 187	100E A QT				
		NOAA	ABT	ABT	ABT	ABT		Saftwale	Ě	
Parameter	all L	South	VCH95-10	VCH95-11	VCH95-12	VCH95-13				
		Marine Sediment	HDR Neuth	MDR Mouth	MDR Wouth	MDR Wouth				
		7 28°		10/17/95	10/17/95		Kinlmum	Maximum	Meen	Hite / Total
Seneral		100 may 100 m								
ТЯРН	mg/kg	1	480	418	119	272	62.4	874	56775	27 / 27
Tribudyn	ug/kg	1	4.22	3.79		4.15	2	+	A	2 2
Dibutylkin	±g/kg	_	2.36	2.99	0	254	2	t	1 5	
Monobutylic	TO KG	-	2.58	0 99	) F 0 F	20.5	2 6	t	20.77	13 / 13
Schots (%) Dry vm.)	,	1	4,	000	707	820	8.6	t	22.17	51 / 13
Total Sulides	TOWER TAYOUT		4,	288	9	000	Q	0.2	20.0	, 13
Total Owenin Camera	2			2.28	0.65	3.55	0.26	┞	96.0	13 / 13
SVOCA		STATE OF THE PARTY	3	THE REPORT OF THE PERSON NAMED IN			STATE OF THE STATE		0.0	
Bls/2-ethythexyllohitherate	uo'ka		o	ō	0	Û	Q		g	0 / 13
8 Busybenzylontnelate	Sylon No.	83	0	0	0	0	Q.	-i	292.48	6 / 13
<sup>o</sup> Di-n-buryonthalata	oy,on	85	0	0	0	0	ND		문	0 / 13
Dietrychthalate	0),611	9	٥	0	0	0	S	-	문	0 / 13
P Dimethy'chthalate	будп	•	O	0	0	0	Ô	1	36.93	1 / 13
P Di-n-octytonthalate	паука	61	Þ	0	0	0	NO	Ş	ş	0 / 13
Napilhalene	Byten	390.64	0	0	0	0	QV Qv	Q	¥	13
Acenaphthylene	ug/kg	.27.87	0	c.	0	o	Q.	2	2	C / 13
Acenaphthene	. gvkg	88.9	0	C	٥	0	D.	2	Ž	2 2
Flucrens	Jarkg	144.35	0	a	0	0		†	2 00	2
Phonanthrene	됩	543.53	283			١	2	3 5	8 2	2 0
Anthracene	Dybri Dybri	245	ا پور	200				t	250.000	2 7 0
Fitorsofthane	ngwg	453.54	462	347			Ç.	t	420 45	11 / 13
Py Bng Bonz(a) ambraceon	2 L	609 43	100	1	0		Ş	t	227.71	7 / 13
Characte	2 2	845.98	282				ON .	H	178.06	6 / 13
Benzofblanthracene	Nok	1	275	0	0	9	QV	H	152.42	6 / 13
Senzo(tofluoranthere	DAYON	1930	213	0	0	U	2	1	160.69	5 / 13
Вепдо(а)ручеге	byon		238	0	0	J	2	792	139.46	13
Olbenz(a,h)anthracens	6y6d	1	0	0	٥	ا	2	+	G, B,	2 .
3 indens (1,2,3-c,d)pyrene	ng/kg	633	0		٥	ان	2	2	- } 9	200
Senzo(g,h,l)perylene	DQ/KG			٥			2 2	2 5	9	2 6
4-chloro-d-methyphenel			2			ء د	2	2 52	Ę	0 / 13
4-memyphenal	By kg	3 .				, ,	2	Ž	2	0 / 13
2-chlorophenox	Su Sa	1		, -		0	Ę	2	Ŷ	0 / 12
COMPAND TO STATE OF THE STATE O		l	,	,		-	2	Ŷ	ş	0 / 13
2 4-delivorheed							Ę	Ź	ş	0 / 13
2-method-& &-dialtrechand	taryka Parka	-				0	Ş	QN	QN	0 / 13
2-nitrophenol	uoka		0	0	J	0	ä	Q	QN	0 / 13
4-nthophenol	ug/kg	-	٥	0	Đ	0	ű	Q	Q	0 / 13
E Pentachlorophenol	DX/Or	17	0	0	3	0	ş	Ŷ	2	0 / 13
E Phenol	payg	130	0	0	5	0	ş	£	2	0 / 13
2,4,6-trichtorophanol	pg/kg	9	Q	0	S	0	S.	QV	2	0 / 13

# Summary of 1995 Flaya Vista Sediment Quality Sampling Santa Monica Bay ABT

Marine Sediment   Marine Sed		A8T VCH85-11	ABT VCH95-12	ABT VCH95-13		<u> </u>	Saltwater	
Parameter   Unital	4	VCH86-11	VCH95-12	214412				
Page			-					
Inc.		MDR Wouth	MDR Worth	MDR Mouth				
Inchest		10/17/95	10/17/96	5	Minimum	Maximum	Nesen	Hits / Total
International   Internationa			3.78	Š			A STATE OF	20.00
100 00 00 00 00 00 00 00 00 00 00 00 00		9'5	1.93	3.38	1.2	2.6	2.41	13 / 13
100 King 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.04	. 6:3.	19.3	48.9	14.5	78.3	38.16	53 / 13
100 KG 10	0.185	0.32	3,158	0.247	0.101	0.32	6.17	13 / 13
19 19 19 19 19 19 19 19 19 19 19 19 19 1		0.482	c c	0.239	Q	0.609	C.24	51
100 KG 10		37.7	12.8	28.1	10.5	37.7	18.81	13 / 13
100 KG 10		6.56	3,56	<b>88</b> :∓	2.51	:3.6	4.74	13 / 13
100 NG H	24.6	39.1	9.6	32.7	5.74	41.5	20.86	13 / 13
100 KG H H H H H H H H H H H H H H H H H H		298	23.3	152	22.5	5%	36 36	13 / 13
19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769 19769		5.22	0.066	0.21	3.036	g	0.10	e: / 22
100 Mg 10		2.07	0.757	133	0.387	2.78	2	13 / :3
100 kg m morks morks morks morks morks morks morks morks morks more more more more more more more more		50.5	10.5	15.1	6.68	20.5	10.83	13 / 13
1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 1976 1 19	D	c	0	0	Q	2	ON.	0 / 5
1976 1976 1976 1976 1976 1976 1976 1976		1,69	0	0	QN	1.69	0.32	3 / 9
1976 1976 1976 1976 1976 1976 1976 1976	21.6	35.8	15.4	16.4	12.9	35.8	21.15	13 / 13
19 19 19 19 19 19 19 19 19 19 19 19 19 1	ļ.	Ça,	28.5	6.63	333	243	110.95	13 / 13
19	0.00 (	A Lumbridge Company	STATE OF STA	2000	1000			
1976 1976 1976 1976 1976 1976 1976 1976		. 88.6	0	3	2	15	4.44	6 / 13
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25/201 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19/401 19	0	o	0	J	ON	Ÿ	Ñ	0 / 13
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1976 1976 1976 1976 1976 1976 1976 1976	0	٥	3	ن	QN	NO.	QN	0 / 13
1975 1976 1976 1976 1976 1976 1976 1976 1976		0	0	٥	g	NC	QN	0 / 13
53/68 53/68 53/68 53/68 53/68 53/68 53/68 53/68 53/68 53/68 53/68		0	٦	٥	ş	56.7	4.36	[ EL J .
Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden Syden		٥	٥	0	Q.	Ñ	2	0 / 13
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53/68 53/68 53/68 53/68 53/68 53/68 53/68	c	0	Ō	0	皇	g	2	0 / 13
54/6H 54/6H 54/6H 54/6H 54/6H 54/6H 54/6H	Ç	0	٥	0	ğ	2	2	2 0
Sych Sych Sych Sych Sych Sych Sych Sych	¢	0 1	0	0	ž	Ż	2	0 / 13
199/64 199/64 199/64 199/64	C	0	0		2	Ž.	24	51 / 0
HS/kg HS/kg HS/kg HS/kg HS/kg	6	0	0	e	ž	2	2	5 7
Paka Paka Paka Paka Paka	a	3	0	6	ç	Q	2	0 / 13
S S S S S S S S S S S S S S S S S S S	0	o	. 0	c	Ş	QV	2	0 / 13
ug/kg ug/kg ug/kg	0	J	0	c	ş	GP.	S	0 / 13
By den	0	O.	0	C .	ON .	2	2	0 13
מאַעמו	٥	0	· ·	c	ON {	9	2	0 13
	0	٥	0	0	Q¥.	9	ΩN	0 / 13
noko		33.8	c	-	Q.	103	13.70	3 / 13
no/kg	a	٥	C	c	QN	57.9	14.72	4 / 13
		٠	c	٥	9	9	ŊĎ	0 / 13

Notice:

Notice Comparison

No. Not Detected

PEL. Probable Effects Level, level soove which actors effects are trecuently expected

1965 Abit. = 1986, Colored 17. Avanced Biological Testing, Dark Report of Results of Chamical and Physicial Testing of Sediments from Marina Del Ray South Emisrice.

\* Buckman, M.F., 1999 N.CAA Streaming Quick Resilience of Sediments from Marina Del Ray South Emisrice.

\* Buckman, M.F., 1999 N.CAA Streaming Quick Resilience.

\* Tatles, No.AA HAZAAT Report 89-1, Sealte, WA Coastal Protection and Restoration Obvision, National Coeanic and Amparant Effects Threshold (AET) is used instead bocause

PEL. Is not itseld

\* Indicates excreeds guidance values

## Appendix A-2 Camp Dresser & McKee Existing Data

Summary of 2002-2003 Playa Vista Water Quality Sampling Dry Weather - Freshwater Marsh CDM

			2002 CDM	2002 CDM	2002 CDIM	2002 CDM	2002 CDM	2003 CDM	2003 CDM	2003 CDW	2003 CDM
,	:	CTR Chronic	MOS :	MOO		CDM	MGD 1	CDM Profession Drain	Centre Design	Estferent Prein	C Jefferson Drein
Parameters	et la	FW Crileria	Central Drain Inlet (SP-2)	Jenerson Drain Inlet (SP-3)	S. Jefferson Oralin Outlet (SP-4)	Intel (SP-2)	Inlet (SP-3)	Outlet (SP-4)	Intel (SP-2)	Inlet (SP-3)	Outlet (SP-4)
		1000	04/25/02	04/25/02	04/25/02	06/28/02	U6/28/UZ	UNZB/02	A(V2/U3	04/02/03	04,02/03 04,02/03
General	m oct.NPV	1	47	NA	٧N	٧V	ΝA	NA	36.3	5.2	52.6
m\$	WPN/100 m	,	V.¥	3	NA	ΑN	ΝĀ	ΝA	80	7	2
:	MPN/100 mil	1	N.A	٩V	NA	¥۷	NA	₹.	23	17	-13
calinity (as CaCO <sub>3</sub> )	, Sp	١	NA	ΥN	NA	٧N	NA	NA.	143	42	58
Carbonate Alkalin ty (as CaCC <sub>a</sub> )	'nď.	1	Ϋ́	Ϋ́	NA	NA	ĄN	NA	0	80	20
Hydrox de Alkar, nity (as CaCO <sub>3</sub> )	:/54	-	٨Z	ŊĄ	ΝA	NA	Ą	Ϋ́	o	0	C
Total Akalinity (as CaCO.)	ľζω	1	ΑN	¥Z	٩Z	٧×	Ą	Ϋ́	143	7.2	78
Total Disselved Solids	],Tu		Ϋ́Z	Ϋ́	AN	ĄZ	NA	٩Z	625	392	392
Total Suspended Sords	ļσω		29	26	14	N.A.	Ϋ́N	NA.	20	39	0
Total Settleadle Solids	ľgm	1	0	0	0	ΝĄ	NA	ΨN	٧×	AN	0.
Total Organ c Carpon	ľøm		N.A.	ΝĀ	ΝA	٧N	NA	Ϋ́N	32.7	25.5	25.8
Turbidity	ÛLN	1	27	24	13	NA A	ŀ	ΑN	ď.	√ N	a Z
Sa nlty	1/6	[	ΝĄ	ΝA	ΝA	1.7		2	٥	5	7
Pesidual Chlorine	₽6ω	1	0	٥	C	ž		ď.	¥.	<b>₹</b>	XX.
Total Cyanide	₩g.w	-	0.0038	0	C	¥ :	1	4 2	Ž	4.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Sulfides	J.BE		0	0.034	C 1/2	YN		200	¥8.	156	153
Fardaess	ig i		¥N.	250 0	20.0	S IN	l	NA	a v	₹×	ž
740	200	-	٥	676	0.50	S Z	1	C dN	ΨV	₹X	a Z
Coar Frencis	100		3 -		5.	72	L	NA		0	0
5000			*1	2.2	VIV	2	L	AM	Z	33	32
Cherrical Caygen Derrand	5 8	1	22.0	5,0	91.0	(N		N.	ž	ΨX	N.
TPH-Fixed-Bole	ļar		Ϋ́N	3	A.N.	έχ Ž	L	ΑN	U	Ċ	Ç
PH-Recoverable (TRPH)	Vol.	ı	Ϋ́N	Y.A	¥N.	ž		NA	Ų	C	C
PH-Volatile	μξω		17	22	18	ΑN		47	Ų.	c	C
Total Cil and Grease	ਸ਼ਾਰੂਵੀ		5.3	0.42	0.44	Ϋ́		Ϋ́Υ	c	c	c
Ammonia	μ <sub>0</sub> ω	_	ΝÀ	¥.	¥	ž		¥:	0.43	0.02	0.02
Nitrate	#6w	!	¥	Ϋ́	¥	NA.		YN.	9	5 (	
Nitrite	ŀćω	1	ž	<b>₹</b>	4Z	\$ 3	1	Z Z	0		3 0
Orthophosphate	λa L	!	¥	2	42	<b>X</b>	]_	V.	a e	0.75	0.33
TX-	6 E	<u> </u>	ž ž	42	AN AN	S &	L	AN AN	0.64	0,44	0.15
	161	1 1/0/1	¥	ž	¥.	Ą	L	ΨN	76.9	76.2	76.8
Total Sodium	П9/1		NA	NA	ΑN	ΝĀ	ш	NA	106	39.5	89.5
	-	CHANGE AND							200000000000000000000000000000000000000		A STATE
ane	ğ	1	0	٥	S	¥	¥Z	NA	٥	0	0
1,1,1-Trichlotoethane	ğ	1	٥	0	0	A'A	¥Z.	<b>₹</b>		3	•
1,1,2,2-Tetrachloroethane	4		0	0	ان	¥N.	ν.	« ×	0 2	2 5	0 4
1, 1.2- Trehloro 1, 2, 2-talluoreethane		1	٥		٥	Ç v	1	2 2	٤	٤	
1,1,2-1fichlorethane	ò	42	5 0			V V	2 2	C 47			5
orange of the contract of the	100	1 2				412	42	42	, -		
	51	3.5	,		> c	2	NA NA	4Z	-	¢	
1.9.3. Trichlorobanzana	700		0	0		₹ Z	Ϋ́	ΑN	0	0	U
1.2.3-Trichloropropane	Į,		√.×	άX	NA.	4V	Ą.	A'N	0	٥	Û
1.2.4-Trichlorobenzene	l'c'l		0	0	O	₹V.	ĀN	4.7	o	Ō	Ö
1,2,4-Trimethy/benzene	ľ,5rl		0	C	0	٧A	Ϋ́Z	٧×	0	٥	Ü
1,2-Dibromo-3-chloropropane	l/Sri	I	0	0	0	AN.	NA NA	ΨN	٥	0	Ţ
1,2-Dibromoethane	ľgň	1	0	0	0	<b>∢</b> ₹	Ą	V.V	0	0	0
° 1,2-Dich loroethane	/BII	65		0	0	¥,	ΨŽ	V.	0	0	, ان
7 1,2-Dichiotopanzara	l'Sr	1730	0	0	٥	W.V.	€ Ž	¥,	0	0	2

Table A-2.1

1

Summery of 2002-2003 Plays Vista Water Quality Sampling Dry Westher - Freshwater Marsh CDM

								1000	1000	MUU BOOK	POOR CINE
		CTR Chronic"	COM	CDM	WOD COM	ED MOS	CDM	MOD		₩QD	
Parameters	Units	FW Criteria	Central Drain	Jefferson Drain	S. Jefferson Drain	Central Drain	Jefferson Drain	S. Jefferson Drain Outlet (SP-4)	Central Drain	Jefferson Drain Inlet (SP-3)	S. Jefferson Drain   Outlet (SP-4)
			04/25/02	04/25/02	04/25/02	06/28/02	06,28/02	06/28/02	04/02/03	64/02/03	04,02/03
* :,2-Dichloropane	. i/gr	36	C	0	٥	۸×	∢,	AA.	0	٥	C
* 1,3-Dichlorcbenzene	l/bri	2600	0	0	٥	NA	A.A.	N.A.	0	٥	c
: 6-Dichloroproane	l/gri	-	C	0	0	ΑN	¥	NA	٥	0	0
1,3.5-Trimethylbenzene	l'gu	i	0	0	0	¥Z	<b>₹</b> Z	άχ		D .	
* 1,4-Dichlorobenzene	l'On	C092	O	O	0	ΨN	Ą	AA	٥	D (	
2,2-Dichloropropana	l/5n	1	٥	c	0	Ϋ́	₹Z	¥.	٥	0 5	0 \$
2-Suterione	l'2d		٥	c	٥	¥N.	AA.	AN.	\$	٤	
2-Chloroethyl-vinyl-ether	jon M	1	0	c	0	ď.	ž	Y.	0	3 6	
2-Chloroto Jene	,61	1	0	٥	2	¥.	¥.	Z.	0 414	2 2	
2-Fexarione	j,bri	1	0	٥	J (	Y.	¥.	AN C	₹ c	Y.	Ę.
4-Chlorotoitere	l'gu	1	0	٥	3,4	₹.	Ž	4	,	> 2	NIA
Apetone	l'or	-	0	0	٥	Š	ž	Š.		5	1
Aprolein	μgվ	C82	٥	•	٥	ď.	ž	A.A.	¥.	¥.	2
* Aprylositrole	µg∕l	0,66	0	0	0	ΝΑ	ž	<b>₹</b>	¶.	ΝĀ	¥.
<ul> <li>Bromodichloromethane</li> </ul>	₽8d	48	0	0	0	¥.	A.	ΝÀ	o	٥	Ç
Bromochloromethana	μg/l	1	0	0	0	NA N	٧¥	N.A	ď Ž	AN.	V.
Вгстарензеле	l/gti	ı	0	٥	0	Ϋ́	ž	A.V.	c	0	ن ر
Bromothane	hg/l	-	0	0	0	A.A.	ž	A.A.	5	,	2
<sup>c</sup> Benzene	μα¶	7.	0	0	0	ΝΑ	₹	Ϋ́	٥	0	0
- Brematom	ug.'	360	0	0	0	ďΝ	₹	ΑN	٥	٥	Ū
chlorodibromethane	hōri.	34	0	. 0	0	άN	ΝΆ	ď	0	٥	XX.
Chlorobenzene	,/6rl	21000	0	) 0	0	NA	ž	<b>∢</b> Z	0	0	٥
Carbon Tetrachloride	l/bri	4.4	0	0	0	NA	NA	NA	0	0	0
Chloroathane	1/61		.0	0	0	ΑN	NA	NA	0	0	0
Chlore:orm	1/61	1	0	0	0	Ϋ́	ž	N.	0	0	0
Chloromethane	µg/l	1	0	U	0	ž	돧	₹ Z	٥	0	0
Carbon Dist, fide	μ <u>φ</u> /	i	0	٥	0	¥	Ź	¥ Z	Ž	Y.A	ž
Dibromomethane	hg/l	!	c	٥	0	AZ.	¥	AN.		3	3
Dich prodiftuoromethane	l/gu	1	c	٥	0	ž	NA NA	ď.	0	3	0
* Ethyibanzane	1/6/1	28000	0	٥	0	Ϋ́	Ϋ́	۹ 2	٥	C	0
Hexachlorobutadiene	1/61	1	٥	ن	0	ž	ž	¥	٥		0
Isopropyibenzene	1-5/		c	3	0	X.	¥.	¥	0	c ;	0
Methyl isobutyl ketone	1/64	1	0	٥	0	ž	ž	¥.	ž,	Y.	ž
m,p-Xylane	1757	-	٥	ن	0	ď.	٤.	¥Z.	2 2		2 2
Metryl-tert-buly-ether	V23		- -	2		£ :	ž	4	5		5
Methylene Chloride	2	1500	٥		34	ď.	Y S	Ž	5 6	7	
Naxhalene	i i		١			2 2	2 2	5 2	, ;		, .
n-buryloenzene	100	!!!	3	2	À.	2 42	2	AN.	> 0	3 6	C
o-leopromite in the second of	1 2 E	1	, c	٥	c	ž	Ϋ́Z	ž	0	C	c
ora San Control of the Control of th	pan pan		c		2	ž	ΑN	XX.	٥	c	C
sec-Butviberzene	l/dn	1	o	0	0	Y.N	ĄΝ	AN	0	C	С
tert-Butylbenzene	100		0	0	C	N.	NA	ΑĀ	0	c	С
Styrene	1		0	0	С	χ'n	NA	NA	0	c	0
- Trichloroethane	l/6ri	81	0	0 [	0	42	A'N	NA	٥	6	0
Trichlorofluoromethane	l/gu	-	0	0	0	NA	NA	NA	0	٥	0
* Toluene	μανί	200.000	0.25	5,14	C.19	Ϋ́	A'N	λķ	0	۵	0
<sup>c</sup> Tetrachloroethene	l/gr	8.85	0	0	. 0	γV	ΥZ	Ϋ́	0	0	0
Viny: Acetate	J/6ri	-	0	0	0	Ϋ́	A.S.	Ϋ́	ΑN	¥	¥Z
Vinyl Chloride	Į,	525	0	0	0	ž	<b>4</b>	¥.	٥	0 5	0 4
Total Xylenes	ğ		0,	0 4	0 (	₹	₹ ₹	¥ i	₹ °	<b>∑</b>	¥.
cs-1,2-Dichlaroethene	Į,	ı	0	0	0	NA NA	5	ž	٥		

Summary of 2002-2003 Plays Vista Water Quality Sampling Dry Weather - Freshwater Marsh CDM

			Spoot CDM	2002 CDM	2002 CDM	2002 CDM	2002 CDM	2003 CDM	2003 CD#/	2003 CDM	2003 CDM
		CTR Chronic*	CDM	WOO	MOO	CDM	COM	CDM		WOO	
Parametera	Chits	FW Criteria	Central Drain Inlet (SP-2)	Jetterson Drain	S. Jefferson Drain Outlet (SP-4)	Central Drein Inlet (SP-2)	Jefferson Drain Inlet (SP-3)	S. Jefferson Drain Outlet (SP-4)	5 <del>-</del>	Infet (SP-3)	Outlet (SP-4)
			04/25/02	04/25/02	04/25/02	06/28/02	05/28/02	06/28/02	04/02/03	04/02/03	04/02/03
cls-1,3-Dichloropropere	V&u	-	0	0	0	ΝΑ	NA	ΨZ	0	O	0
trans-1,2-Dichloroethene	į/bri	40000	0	C	0	N.	NA	ΑV	0	0	٥
trans-1,3-Dichloropropene	í/6ri	1		٥	0	ΝΑ		96548	0.202	,	King Carbon
S' <i>v</i> òcs	がある	\$ \$4 (CE)							2000		
Acensphthene	1/64	2700	¥N	¥	NA	ď.	ď.	¥	3 ,	5 6	
Acenaphthylene	hgv!	I	<b>₹</b> Z	ΑN	۸۸	Ϋ́	ďŽ.	¥N.	٥		
Anthracene	/ <b>6</b> ri	113000	٧N	NA	۸A	ž	Ϋ́	<b>₹</b> Z	0	C	
P Benzoralanthracene	Ē	0.049	Ą	ΝΆ	ΝA	Υ¥	ΑN	NA	0	٥	٥
Beazofalowene	į.	0.049	ΑN	ĄN	Ϋ́	ź	A'N	Ϋ́	0	٥	0
Party (h) fluoranthena	Į (di	0.049	Ϋ́	4.Z	ďΖ	¥	٧N	NA	0	٥	0
Borney In Manual and	, c	1	Ą	V.	AN.	Ϋ́	¥'X	A.N.	c	0	c
Personal Control of the Control of t	2	0,049	Ž	ΨŽ	Ž	¥	<b>₹</b> 2	۸A	٥	0	c
Control (v) and on a	//01	6700	NA.	ΨŽ	ž	¥	ΑN	¥	٥	٥	ń
Office Total of September of Chapter of Chap	, ,	0.049	AN	ž	A.	ΨZ	₹Z	ž	C	0	C
Committee of the commit	2	920	42	ΑN	¥	A.A.	₹Z	ž	٥	0	0
Pilorianni en e	1	14000	¥.	42	AN	Ą	ž	¥	0	0	0
F. Deligination of the second	3	0,000	412	47	ΑZ	42	Ž	Ϋ́Α	ΑN	Ϋ́Z	0
Indeho(1.2,2-5,0)pyrana	3	5000	5 5	222	SIN SIN	42	42	ΨZ	٧Z	ž	O
Naphthalene	Ď,	-	٤	Č.	4	47	92	47	G	۰	0
Phenanthrene	Son I	-1	ď.		156	¥ :				-	-
° Pyrene	υбп	ມ໘າ 11036	NA	NA	NA NA	NA	NA.	NA Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particular Particul	0	0	
Metals	100	***					-		NA A	N.	42
Disselved Ant mony	ν <sub>0</sub> μ	1	٧,		44	-	¥ -	2	ΨN	ž	Ž
Total Antimony	5	1 6	1.1	1,1	AlA	- 4	4	7.5	8 2	6.2	ę
Disso ved Arsenic	200	200	5	ې		6.6	7.6	7.9	8.5	8.2	€ 1
Discount Description			•	42	NA	0	٥	C	ž	Ą	Ž
Total Ran Illing	201		50	0	0	0	0	c	AA	NA	άZ
Dissolved Cadming	/en	6.2	Ϋ́Z	¥	ΑN	1.0	0.12	0.12	0.2	0	0
Total Cadmium	/D/3	1	0.18	31.0	2.17	0.12	0.14	0.14	0.2	٥	ō
Dissoived Chromium	163	550	٧Z	NA	ΥV	0.72	0.62	67.0	1,2	٥	0
Total Chromium	ng/4	1	0.42	0.58	0.79	0.56	5.87	0.8	1.7	1.5	0.8
Dissolved Chromium (VI)	l'gri	11	0	٥	0	o	٥	0	0.17	27.5	ž
Total Chromium (VI)	µg/l	:	ď	ΨX	Ψ×	¥	¥ ;	ď.	ď.		6.6
Dissolved Copper	Ľď.	29.0	ž	¥N.	ΨŽ,	2 6	200	4.0	* * *	D 47	4 6
Total Copper	9		E Z	14	NA NA	AM	5.0	47	0.13	0.03	0.06
Casolved Iron			S S	4	42	Y Y	۸A	¥	0.87	0.46	60.0
Discolved Load	i i	410	ž	5	A'N	0.83	2.3	0.46	0	0	0
Total Lead	j oʻ		0.29	0.68	C.34	0	0.32	0.23	1.4	F.B.	٥
Dissolved Manganese	Į,	1	*	٧×	NA	NA	A'N	ξ.	38	4	17
Total Manganese	.jor	1	Ϋ́	NA	NA	Ϋ́	Ϋ́Α	Ϋ́Z	310	27	8,
Dissolved Mercury	'nбп	1	ΝΑ	NA	Ϋ́	0	c	0	٥	٥	0 (
Total Mercury	'ou	1	٥	c	0	٥	C	0	ء پاد		,
Dissolved Nickei	ľφr	175.0	ΑΝ	₹Z	Ϋ́	3.8	3.7	3.4	6.5	7	2
Total Nickel	3	1	0.	5.6	5.5	,	٥	4,0	,,	•	١,
Dissolved Selenium	3	-	₹ .	Š.	¥					, 0	, O
otal Selenium	3	0	100	42	a a	, 0	, ,	, o		0	0
Dissolved onlyer	1	,   	٥	E C		· ·		0	0.2	D	0
Dissolved Thallium	ğ		NA A	Ϋ́	¥Z	0	0	0	ΨŅ	ΝA	¥Ζ
Total Thailum	je Pol	,	٥	0	0	0	0	0	¥.	ΑA	¥Z
Disselved Zinc	),Gri	81	ΑŅ	Ϋ́	ΨN	28	21	14	5.9	3.4	2:

## Playa Vista Weler Quality Sampling Dry Weather - Frashwater Marsh CDM Suramery of 2002-2003

			2002 COM	2002 CDM	2002 CDM	2002 CDM	2002 CDM	2003 CDM	2003 CDM	2003 CDM	2003 CDM
		CTR Chronic	WCC	CDM	CDM	COM	COM	CDM	CDW	CON	₩ 000
Description	1	FW Criteria	Control Drain	Jefferson Drain	S. Jefferson Drain	Central Drain	Jetferson Drain	S. Jetferson Drain	Central Drain	Jefferson Drain	S. Jefferson Drain
			Inlet (SP-2)	Inter (SP-3)	Outlet (SP-4)	Inlet (SP-2)	Intel (SP-3)	Outlet (SP-4)	Inlet (SP-2)	Inlet (SP-3) 04/02/03	Outlet (SP-4) 04/02/03
			04/25/02	04/25/02	04/23/02	2002/90	700700	7 4	200	2	1.7
Total Zinc	ò	]	7.3	11	9.3	7,6	10	1,1	2.000	200 W. H. C.	
Pesticides *											
0.00	/bri	0.0083	ΝΑ	N.	ΝÀ	Ā	₹.	ž	٥	0	0
" P P-DDE	l'ari	0.0059	AN	AN	NA	ΝΑ	Α'n	ž	c	0	0
TOO-19 4	ľoľ	100.0	¥	ďΖ	NA	NA	NA	NA	c	0	0
d Aldrin	,on	1.3	¥	ΨŽ	NA	NA	NA	Υ.	C	9	C
Ploba, BHC	1/011	C.0039	ž	ž	ΑA	ΝΑ	NA	ζ.	C	0	٥
beta-8HC	Con	0.014	ž	ΑÑ	A.A	NA	N.A.	AA.	٥	٥	0
delta-BHC	l'on	1	¥X	Α̈́	¥	N.A.	ΝÀ	NA	٥	٥	٥
aloha-Chlordana	l/on	ı	Ą	ď.	¥	NA.	NA	NA	0	٥	0
Dieldrin	Von	6,00,0	¥	ď	ΑN	ΝA	NA	NA	0	٥	0
Endostatian I	700	7900.0	Ϋ́	ž	ΑN	ΥN	NA	NA	0	0	0
Endografian II	1/00	0.0087	NA	Ϋ́N	NA	NA	NA A	NA	0	°	3
Propaultan Sulfate	1/00	110	Ϋ́Z	ž	ΑN	NA	N.A	NA	U	a	J
Endrin	100	0.0023	ΑN	ΑN	N.A	\A	ΑĀ	ΝA	Ü	٥	٥
Endrin Aldehyde	1/6:1	0.76	۸۸	NA	A.A.	N.A	N.A.	ΝA	٥	0	٥
Endrin Ketone	l/2/1		ΑN	ĄŅ	<b>4</b> ,4	N.A.	NA	٨,	N.A.	<b>∀</b> Z	ت
comma-BHC (indens)	Ven	0.16	AN.	ΨN	N.A.	NA	NA	NA	0	5	اد
osmma-Chlordane	1/67	-	ΑN	N.A.	4.4	ΑN	NA	ΝΑ	٥	0	0
Heptachlor Epoxice	Į,	0.0036	ΑŅ	NA	ΝΆ	NA	ΝΑ	¥Ζ	٥	0	0
Heptachlor	l/gu	0.0036	Ϋ́Z	NA	NA	Ϋ́N	Ą.	ď	٥	2	3 6
Methoxychlor	,ABri	ı	Ϋ́Z	N.A.	¶.	ž	Ϋ́	¥Z	٥	,	
Arador-1016	l/gu	0.014	¥Ζ	NA.	A'A	Ϋ́	ΑN	<b>₹</b>	٥	o l	0
Arador-1221	Į Gri	0.0.4	٩Z	V.A.	Ψ'A	ž	¥Z.	q Z	0	ان	-
Arodor-1232	- ja	0.0.4	¥N.	(A)	NA	¥	٧×	Ž	0	٥,	C management
Arodor-1242	ľųgv.	0.0.4	ΨZ	47	٩Z	άN	¥,	NA NA	٥	0	5
Arockr-1248	.05	0.014	ΨZ	N.A	ΝA	¥	<b>₹</b>	¥	٥	0	
Aroefer-1254	·δτ	0,014	ΥN	NA	Ϋ́Z	¥	A.A.	3	0	0	
Arocker-1260	Ď,	0.014	γN	NA	ΝΆ	¥	ΝΑ	ž	ः	0	C
PCBs	,/br	0.014	ΨN	N.A.	ΝΑ	ΑN	¥Z.	ž	ΑĀ	NA.	

2002 CDM = 2002, Apri. 25 and June 29. Camp Dresser & McKee. Freshwater Varsh Water Quality Sampling, Dry Westner, Plays Vista, Ca ifornia. Final CTH FW Criteria = 2000, May 18. Federal Register Volume 85, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numer o Criteria for

Priority Toxic Pollutants for the State of California.

Per the CTR, because the salicity is between 1 and 10 ppt, the applicable criteria are the more stringent of the freshwater or selfwater or leafa.

CTH Citierla was calculated using the mean hardness for all freshwater dry weather samples collected in the Freshwater Marsh. Since the mean hardness was 449 mg/l (greater than the maximum set by the CTR), a hardness of 400 mg/l was used.

° CTR criteria shown are for the protection of human health due to the consumption of aquatic organisms living in waters with carcinogenic constituents. CTR does not designate freshwater chronic oriteria for these constituents.

OTRICIANS shown are the treshwater acute criteria for the protection of aquatic life. OTR does not designate freshwater chronic criteria to these constituents

### Summary of 2002-2003 Playa Vista Water Quality Sampling Dry Weether - Freshwater March CDM

		CTR Chranic*			Dry Weather		
Parameters	Units	PW Criteria					
			Minimum	Maximum	Mean	Median	Hils / Total
General	19.00 Sept.	1	1				₩.
	MPN/10Cm		2.5	52.6	31.37	g.	-
Fecal Colliforms	E SC		7	8	4.67	•	9
	Mr. Sc.	1	13	23	19.71		-[
Bicarbonale Alkatinity (as CaCO <sub>3</sub> )	ļδĒ	F	45	143	61.00	88	e / e
Carbonate Alkalinity (as CaCO <sub>3</sub> )	i/ye	_	S.	33	16.67	8	2/3
Hydroxide Alksnity (as CaCO <sub>2</sub> )	i/Sm	-	S	Ŷ	QN	ę	E / 0
Total Akalinity (as CaCO <sub>3</sub> )	ľζStu		72	143	79.7E	<sub>E</sub>	e / e
Total Dissolved Solids	mc./	1	392	520	434.67	392	ŀ
Total Suspended Solids	⊞C/:		9	36	21.33	R	┞
Total Settleable Solids	i,o£		9	9	Q <del>V</del>	9	0 / 4
Total Organ c Carbon	JC)		25.5	39.7	28.00	92	-
Turbidity	DLN.	,	9	27	23.33	77	-
Sarinity	Vo	ı	2	2.0	0.92	-	ŀ
Residual Chlorine	mc/:	ı	9	Q	Ş	2	0 / 3
Total Cvanide	щC;	١	S <sub>N</sub>	0.0038	000	0	0 /
Suifides	J.	ļ	2	0.034	0.01		67
Hardness	, ou	ı	156	830	453.33	433	9 / 9
	ng.		8.16	9.26	8.22		n / e
Total Phenois	ώğυ.	1	2	ĝ	Q	ş	-
BOD,	- Lor	1	9	÷	2.50	ļ. _	4 / 6
Chemical Oxygen Demand	"OLL		32	34	33.00	S	8 / 3
MBAS	-jūL		0.19	0.22	0.50	٥	6 / 6
TPH-Extractable	₽Bn		S.	ĝ	잪	ş	-
TPH-Recoverable (TRPH)	/bu	_	OV.	QN	QN	Q.	6 / 0
TPH-Volatile	'nĝ	1	Q.	22	9.6	6	9 / 8
Total Oil and Grease	ъğш	1	2	0.44	0.19	٥	9 / 8
Ammonia	Ď	1.	0.05	0.43	0.16	٥	e / e
Nirate	.бщ	ı	Ö.	9	<del>Q</del>	₽	0 / 3
Natite	ğ	1	2	Q	Q	ş	e / 0
Orthophosphate	ja B	1	Q	2	QN	2	e / 0
TKN	lgm lgm	1	0.37	0.72	65.0		e e
I of a Phosphorus	ď	1	0.15	0.64	0.41	م	-
Dissolved Socium	ē	ţ.	75.9	76.8	76.30	9/	3
I ota i Sodium	I OH	_ 	89.5	106	95.03	06 0	3
Total Triangle	,		4	4			
1,1,1.2* Burachioroethane	DA S	-	2 5	2	2	2	2 (c)
1 1 2 2. Totrack synamore	3 3	7	2 5	2 5	2 9	2 2	0 0
1.1 2-Trichlom-: 2 2-triding attach		- 1	2 2	2 5	2 5	2 2	╌
1.19.Tochlocochana		28	2	2 5	2 5	į	ŀ
1.1-Dichlornethane	1,011	-	E	1 2	2	Ę	-
1.1.Dicblocoathane	,,01	3.5	2	2	2	Ę	ŀ
1.1-Dichloropropena	, con	; 1	Q.	Ş	2 2	ĝ	- -
1,2,3-Trichlorobenzene	1,01		S	S	2	9	┞
1,2,3-Trichloropropane	j.bn	1	QN	ĝ	2	Ð	-
1,2,4-Trichkrobenzene	l'gu	1	QN.	2	92	9	9/0
1,2,4-Trimethylbenzene	/ <b>6</b> rl	_	ΩN	QN	ND	QN.	
1,2-Dibramo-3-ch oropropane	i l'ou	1	QN .	NO	ND.	9	g / 5
1,2-Dibromoethane	j,ō	I	QN	2	Q.	ç	9 / J
1,2.Dichlorcethane	l/Sr	88	오	2	2	Ş	g / g
1,2-Dichlorobenzene	l/Sri	1200	2	9	9	ş	0 / 8

### Summary of 2002-2003 Plays Vists Water Chality Sampling Dry Westher • Freshwater Marsh CDM

Parametera	Unita	CTR Chronic* FW Criteria		_	Dry Weelher		
			Minimum	Maximum	Mean	Median	Hits / Total
* 1,2-Dichloropropans	l'gu	36	QN	QN	9	Ŷ	9 / 0
7,3-Dichlorobenzene	ľgu	2600	Ð.	2	9	₽	-
1.3-Dichipropropana	).En	1	2	2	9	2	9 / 0
1,3,5-Trimethylbenzene	hov!		2	2	2	⊋ :	-
1.4-Dichlorobenzene	ν <sub>O</sub>	2600	Q	2		Q S	9 / 0
2.2-Dichloropropane	, Sn	1	2 5	25	2	2	٠ -
2-Butanone	i i	1	219	2 9	2 2	2 5	2 2
Z-Chlomethyl-vinyFether	E Gri	!	2 5	2 2	2 2	2 2	- -
Z-Chierolouene		'	2 5	2 4	2 2	2	0 0
Z-Hexanone	101		ş,	2 2	2 2	2 2	- -
Acatone	500		22	2 2	2 2	2	
Acrolein	000	780	2	S	٤	Ş	-
s Acrolonitole	100	) GE	2	£	Ş	2	<u> </u>
s Bromodichlorgmathana	וומין	46	2	2	Ş	ş	ŀ
Stomochiptome; hane	VOO	1	2	2	Ş	£	-
Bromogenzene	, PO	1	2	2	9	₽	9/0
Bromomethane	₩6rl	1	2	Ð	윷	S	9/0
3 Benzene	Ž	7.1	Q	£	₽	£	9 / 0
2 Bromoform:	νon	CSE	QV.	Ñ	£	S	3 / 0
* Chiorodibromomethane	1,60	75	S	g	Ŷ	Q	3 / 6
2 Chlorobenzene	104	21000	Q	Ŷ	£	Ş	١.
2 Carbon Tatrachloride	1/67	4.4	QV.	ģ	ş	ş	-
Chloroethane	ķö⊓	1	QV	Ş	ŝ	Q.	9 / 0
Chiorotam	hgr!		ON	Q	QN	ON.	9/0
Chloromethane	μđη	-	QN.	QN	ΔN	QΝ	9 / 6
Carbon Dist. fide	1/6/1	1	ÜN	ON.	QN	Q	8 / 0
Dib omomethane	1,60	!	S	2	QN.	Q.	9 / C
Dichlorodifluoromethane	1/61	ı	2	£	₽	문	-
* Elhylberzene	1/61	28000	2	Ş	₽	g	٦
Hexachlorobutadisna	1/6/1	ı	S	Ş	g	2	9 / 0
isopropylbenzene	/6n	1	2	₽!	2	Ş	9 / 0
Mathyl Iscbutyl ketone	1,61	-	2	2	2	2	5 / 3
M.p-Xyiene	5		2 2	2 2	2 9	Ş Ş	0 0
Manighter Congression		100	2 2	2 2	2 2	2 5	
Nanatalana	701	3	2 2	2	9	2	ŀ¬
n-Bulylbenzene	1,61	ļ	2	ş	ş	Ş	9 / 0
n-Procylbenzere	1/6/1	_	QN	QN	Q	Ş	9/6
p-tsopropyttoluene	/6d		QN.	ND	ND	ON	9/0
o-Xylene	1/6d	1	Q	Q	₽	ą	9/0
sep-Buty:banzene	1/6/1	1	Q	Q	£	Ş	-
lert-Butylbenzene	1/6/1	1	g	9	9	ş	9 / 0
Styrene	1/6/1	1	Q.	QN	Q	ę	9 / 0
* Trichloroethene	1/64	81	N	QN	Q	2	-
Trichlorofluoromethane	1/61	1	QN	S.	QN	Q	9 / C
. Toluene	1/61	200,000	QN	0.25	c.10	٥	3 / 6
Tetrachioroethene	1/61	3.85	Q.	2	£	ş	9 / 0
Vinyl Acetale	1/61	-	9	g	9	₽	-
Vinyl Caloride	1,61	525	2	2	2	Ş	4
Total Xylenes	161		2	Ž,	ĝ	2	9
cis-1,2-Dichloroathene	1/61	-	2	œ Q	요	ON.	0 / 6

### Summary of 2002-2003 Playa Vista Water Quality Sampling Dry Weather + Frestwater Marsh CDM

Parameters	Unlis	CTR Chronic* FW Criteria			Dry Weather	_		
			Minimum	Meximum	Treat!	Median	Hts.	Total
cis-1,3-Dichloropropena	VБrl	-	Q.	QN	QN	Q	10	9
* trans-1.2-Dichloroathene	ьдг	140000	ND	ND	QN	N	0	9
trans-1.3-Dichloropropene	l/gr	1	ON	Q	QN	Q	· 0	ę
Acenaphthene	100	2700	Q	QN	GN	CN	6 / 0	
Acenaphthylene	3	1	S	2	2	S	0	, ,,
Anthracene	l in	110000	QV	S	2	₽	0	, n
Penzo(a)enthracene	ι <sub>ση</sub>	0.049	QN	2	문	ş	0	, m
Benzo(a)pyrene	l <sub>igh</sub>	0.049	άN	ON	£	ON.	10	60
Benzo(b)fluoranthene	ូចក	6100	ND	ND	Q	QN	0	р Р
Benzo(g,h, )perylene	'nбп	1	QN	ON.	QN	NO.	/ 0	9
* Benzo(k)fluoranthene	1,61	0.049	QN	ND	Q	ND	10	m
* Chrysene	1/5/1	0.049	ON	2	2	Q	0	60
° Dibenzo(a.h)anthracene	1,61	6PC:0	QN	ON	Q	S	7 0	9
° Fluoranthene	1,51	04E	QV	QN	QN	QN	1 0	9
° Fluorene	l'gu ]	14000	QN	Q	Q	Ş	/ 0	3
findeno(1,2,3-c,d)pyrene	1,51	0.049	οv	Qν	QN	QN	/ 0	1
Naphthalene	l'gu	ı	ð	Q	QN	QN	10	-
° Phenanthrene	1/5/1	. 1	Ö	DN	QN	QΝ	/ 0	9
* Рутеле	l'gu .	11000	ON	Q	Q	ą	/ 0	3
Metals b		A THE PERSON						1
Disso yed Antimony	j/Brl	1	1.1	1,6	1,30	-	7 6	9
Total Antimony	l'gu	1	1,0	1.6	- 17	-	7 8	9
Dissolved Arsenic	/bn	150	9.0	4.6	7.07	F	8	9
Fotal Arsanic	, Gr	1	0.1	= :	9.57	6	8	
Total Becelling	ja ja	<b>‡</b>	2 2	2 5	2	2 9	) )	
Dissolved Cadadina	2 S	1 8	2 5	2) 2	200	2 0	>	<b>a</b> (4
Total Cadmin	3	y	2 2	500	0 13	,	1	
Dissolved Chramium	3 9	550	22	1 6	0.56	,-	4	9
Total Chromiter	ğ	-	0.42	1.7	0.89	-	6	6
Dissolved Chromlum (VI)	'jūr'	11	8	0,22	0.05	٥	9	80
Total Chromium (VI)	òr		6, 0	0.19	0.19	0	<i>j</i> ‡	<b>-</b>
Dissolved Copper	,dr	29.0	3.2	2'9	5.03	2	/ 9	9
lotal Copcer	on!	-	3.5	16	9.37		35	
Join Lion		1	800	58.0	50.0	- C	0	
Dissolved Lead	Į.on	0.1	2	5.5	0.70	, ,	0	, ,
Total Lead	ligi	ı	QN	1.8	0.56	c	1 6	6
Dissolved Manganese	l/gu	1	7	36	22.C0	17	9	
Total Manganese	l/gu	;	20	310	119.00	27	D	3
Dissolved Mercury	01	1	2 9	2 9	2 2	2		
Displayed Nickel		1700	2 -	QN.	ON C	<u>Ş</u> ~	3	,,
Total Nickal	201	201	200	, c	3 7 8	, "	0	Ţ
Dissolved Salenium	100	1	ę	£	QN	2	0	
Total Salenium	1/6/	5	QN	Q	2	2	0	6
Dissolved Silver	),Bri	-	Q	QV	ę	Q	0	8
Total Silver	l/O/I	1	<b>Q</b>	6.2	88	0	-	۵,
Dissolved Theillum	61		2	2	2	2	0 6	<i>a</i>
Disablyed Zino	5 6	i lä	1.0	NO.	NO 25	<u></u>	2 6	و ام
	. 6.1			1	4		,	,

# Summary of 2002-2003 Plays Vista Water Quality Sampling Dry Weather - Freehwater Marsh CDM

Parametera	5	CTR Chronic* FW Criteria			Dry Weinher	_	
			Minimum	Maximum	Mean	Median	Hits / Total
Total Zino	/3n		1.7	16	9.78	o	6 / 6
Pesticides *						31	especial services
ddd-'q'd	ľgď	0.0083	NO.	ND	2	Q	€ / 0
P.P. DDE	l'gu	6500.0	Q.	. dv	QN:	Q	E / 0
P,P.DDT	'n	1000	9	ΩN	g	S	8 / 0
Aldrin	(;6d	1.3	0.	QN	άN	QΝ	E / 0
alpha-BHC	убп	0.039	QN	QN	QN.	QΝ	8 / 0
beta-BHC	ι <sub>.</sub> 6π	0.014	QN	QN	QN	QΝ	8 / 0
delta-BHC	ľβri 1	1	QX	QN	QN	QN	8 / 0
alpha-Chlordane	ν <sub>θ</sub> ιτ	1	2	ΔN	QN	QN	8 / 0
Dieldrin	υBri	0.0019	Ð	ND	QN	ND	0 / 3
Endosulfan i	β6d i	0.0087	Q.	QN	QN	ND	0/3
Endosulfan II	y6d }	0.0087	ΩN	QN	Q	ND	0/3
Endosulfan Suifate	μôd j	110	άN	Q.	9	NO	0/3
Endda	μ6ri j	6,0023	qN	QN	QN	S	0/3
Endrin Aldahyda	P@d	0.76	QN	QN	Q	QN	5/6
Endrin Ketone	μ6d	+	QN	ΩN	ē	ND	0 / 1
gamma-BHC (Indane)	bod	91:0	QN	QN	Š	Ω	c / c
gamma-Chlordane	b6d }	j	QN	QN	Ş	ND	5 / C
Heptachlor Epoxice	l/6rl	C.0036	QN	ON	Ġ	ŪN	5 / C
Heptachlor	μōrl	C.0038	QN	ON	QΝ	ON	8 / C
Wethoxychlor	l/ibri	ł	QN	QN	Q	Q.	0 / 3
Aroclor-1016	þ6d	0.014	QN	QV.	QN	QN	0 / 3
Aroctor-1221	hg/k	0.014	QN	ND	QN	ND	0 / 3
Arodor-1232	//Erd	0.014	QN .	ND	ON	QN	0 / 3
Arodor-1242	hg4	0.014	ON .	ON	QN	QN	0 / 3
Aroclor-1248	1/6/1	0.014	ON	ND	QN	ON	0 / 3
Arodor-1254	l/Eri	210.0	QN	Q	QN	ND	0 / 3
Aroclor-128C	1/61	0.014	ON	ND	QN	QN	0 / 3
PCBs	JÆrt .	0.014	ON	ND	QN	QN	٥ / ١

Notes:
2002 CDM = 2002, April 25 and June 28. Camp Dresser & McKet

Final CTR FW Criteria = 2000, May 18. Federal Register Volume Priority Toxic Pollutiants for the State of California.

\*Per the CTR, because the salinity is between 1 and 10 ppt, the all CTR Criteria was solvalated using the mean hardness for all frest maximum set by the CTRI, a hardness of 400 mg/ was used.

\*CTR oriteria shown are for the protection of human health: due to CTR oriteria shown are the treat-water acute criteria for the protection.

ND - Not Detected 0 - Not Detected

### Summary of 1996-1998 Playa Vista Weler Quelity Sampling Dry Westher - Ballona Channel - Sattwater Portion CDM

			1986 CDM	1998 CDM	1996 CDM	1996 CDM	1996 CDM	1896 CDM	1998 CDM	1998 CDM
		CTR Chronic	Mad	COM	₩QQ	CDM	MOS	WOO	CDW	MOD M
Paremeters	Units	SW Criteria	WB	BYW	551	<b>SS</b> 2	SWM-COMP.	SS1-COMP	PVB06-VM	PVB07-WM
			Walk Brdge	SW Marsh	Saline Sta.	Saline Sta.	SW Marah	SaBrilly 1	Ballone Ch.	Flap Gates
, ,			175/96	OF/CL/)	TITOTAGE AND THE	1/13/80	ac/)   %	08/11/0	10000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Certeral			NA	AN.	NA	NA	47	۸۷	۸N	5.0017
Oll and Grosse	, C.E.		0	0	0	0	0	O	∀V.	٥
Haul	7 1		NA.	Ϋ́	Ž	A.K.	A.A	<b>∀</b> /λ:	<b>V</b>	0
TPH Gas	Į/Cil	ļ	AN.	Ž	NA	AN.	4.2	¥N	ΥV	0
WIBE	l'on		ž	¥	2	ΑΛ	ĄV	٩N	NA.	0
TPH, Diagal	), C		2	A.V.	42	NA	٧Z	¥Z	ď۷	0
Total Phonos	i au	١	ž	¥	Ϋ́Z	ďΖ	ΨN	Ϋ́	ΨZ	0.0013
Total Coliforn	MPN/COM		Ϋ́N	2	¥	٧Z	Ϋ́Z	₹Ž	300	4
Facal Cofforts	MPN/100ml		N.	N. N.	A.N	ΝA	ΝA	<b>₹</b> 2	<b>∂8</b>	4
Smoonia Smoonia	100		0	c	284	0	*>	٧/	ž	ξN
Oisson and Coleins	2 2		36.000	370.000	OCCUPE	280000	230	2:0	330	360
Total Calorina	, ou		¥N.	Ϋ́N	2	¥¥.	ďΖ	₹Z	350	360
Discolved Magnesium	jou	1	570.DC0	906.000	000009	490000	916	969	0001	130
Total Magnesium	i am	,	NA	A.	ž	AN.	Ϋ́Υ	₹Z	1000	1100
Dissolved Potessing	1,500	  -	Y.N	¥	N.	٧×	ΨZ	ďΖ	320	330
Total Potassium	nc.1	1	¥	¥.	ž	ΨZ	٩Z	¥X.	320	340
C sevies Sodium	I)CIL		¥	r.V	MA	AN	A.V.	Ā	8200	8400
Total Sodium	nc,1	1	Ą	Y.N	NA	۸N	<b>₹</b> 2	NA	8100	8400
Bica bonate	1,50	-	ž	ΨN	AN	N.A.	¥	ΨN	110	120
Carbonate	J.Su	1	AN	¥	Ą	MA	NA	A.A.	C	O
Hydroxide Alkalibity	1,56	-	AN	ΥN	NA	NA	ΑN	NA	c	c
Chlor de	μζτ. !	_	11,000	12,000	13000	6500	Ϋ́	AN	20002	19000
Ntante	l'2m		3.5	3.4	2.8	3.9	ž	٥	ď.	¥.
Suitate Suitate	"ču	1	. 200	1500	1600	1300	¥	A.	2803	CÚBZ
Alkalıtıy	mg/l	'	183	150	160	.80	Z.	2	NA.	4
Fardhess	"č	1	3100	4200	32.00	2BC0	¥.	ž	AN.	S.
Total Phosphate	ng.1		0.18	0.13	C.15	0.16	3.15	2.16	3	
Orthophosphate	mg./	1	ဂ	_	0					3
Tr butyltin	1/64	-	٥	D	٥	٥	YY.	ď.	₽N S	¥ S
dob	ng.f	1	NA	Ψ.	A.A.	Ý.	ž,	ž	001	0091
<del>ا</del>	7.0	1	7.92	7.94	46./	201	/A:/	087		<i>,</i>
Z-5-1	mg.	1	ν. • • • • • • • • • • • • • • • • • • •	4 × ×		2	100	2 2		
Vitata-V	E	!	KN 4.2	( V	42	2 2	5 12 X	Y Y	· -	
Tion			03.0	ç	, A	35.0	8 -	-	-	0.84
Toronti Nicopania	-		A.	₹N	₩.V	YN Y	¥X.	¥Z	0	٥
Specific Concuctance	L'mhos/cm	,	42000	43000	47000	37000	50000	6200	¥Ν	<b>₹</b> 2
Total Dissolved Solids	mgd		21000	21000	2200C	17000	23000	23000	32000	33000
Total Suspended Solids	Pg E	1	ΑŽ	٧N	٧N	ΑN	46	40	27	53
Volatile Suspended Solids	mg/l	-	U	0	0	C	NA	ΨZ	Ϋ́	Ą
Volatile Solids	l/gm	ı	¥N.	¥'∕	<b>4</b> Z	NA	Ϋ́	ΝĀ	6500	0000
MBAS	mg/l	-	0.12	0.17	0.13	0.15	¥	₹V.	N.	ď.
Total Organic Carbon	1/610		¥Ζ	V.	Ϋ́	Α̈́	VV	A'N		1.5
вор	m3/1	-	12	0	4.7	٥	2.9	4,2		٥
Promide	/6w	!	ž	ď.	ž	V.	€ €	€ :	5 6	30
Salinity	8		ž	ž	ž	¥ .		£ .	200	
S ca	ò	<u>'</u>	¥ .	4	٠ ٢	¥2	,		\$ 12	2 2
Circultur SC	DSI.I	1	X Z		í Ž	C.N.	C,			

Table A-2.2

Summary of 1996-1998
Plays Vista Water Quality Sampling
Dry Weather - Ballona Channal - Saltwater Portion
CDM

		CTR Chronic	1996 CDM CDM	1996 CDM CDM	19B6 CDM CDM	1996 CDM CDM	1996 CDM CDM	1996 CDM	1988 CDM	1998 CDM
Parameters	. Cults	SW Criteria	WB Walk Brdga	SWM SWM	SS1 Saline Sta	\$\$2 \$\$2	SWM-COMP*	SS1-COMP*	PVB06-WM	PVB07-WM
			1/15/96	1/15/96	1/15/96	1/15/96	4/17/96	SBIIORY 1	Ballona Ch.	Flap Gates
Volatife Organios			1000年1月1日				A. W. W.		A STOREGY	100
Tetrachloroethene	Vou	8.85	D	c	0	0	¥	4Z	1	ž
Cluena	, gi	200,000	٥	٥	o	0	Ž	Ą	¥	o
Melhylera Chloride	l/Stri	<u></u>	¥	Ą	N.A.	4.4	ΨN	Ϋ́	Ž	o
1,2-Dipheroethane	1/5/1	68	NA	ΨZ	ΑN	N.A.	₹×	ΑĀ	Ϋ́Z	0
Chloroform	ľ.gu	470	ΑN	V¥	NA .	ΝA	¥.∨	A'N	42	
1.1,1-Trichlorcethane	,gr	1:	ΝA	ΑN	Ą	ΑN	ΑN	A'N	•	
Benzane	l/Off	7.1	NA	₹ Z	ž	ΑΝ	₩.N	4Z	•	3
Ethy!berzene	ľQu	29,300	AM	*	ž	AN	٩Z	<b>4</b> N		
Semi-Volatile Organic	Total Section 1	The second second second			THE STREET	The state of the s	10 miles	10 10 10 10 10 10 10 10 10 10 10 10 10 1	V.1	0
Naphihalere	J <b>/6</b> п	-:	0	၁	3.1	0	AN.	NA NA	V.	Ž
1,2,3-Trichlcropropane	l/cri	1.	0	v	7.73	0	1	NA NA	47	C 2
4-Chicro-3-methylohenol	l/E/I	1	ΝΆ	AN	AN.	₹N.	*	47	T V	5
2-Chlorophanol	1/61	700*	ΑN	₹Ž	ΑN	۸N	A.V.	42	2 2	
2,4-Dichlorophenol	1/64	262	ΝA	<b>∀</b> \	AN	AN	ĄZ	47	AN	
2.4-Dirt Bthy phenoi	1/5/1	2,300	ΝĀ	٧×	A,N	NA	ΑN	άN	NA	٥
2,4-Dinitrophenol	hgd	14,000	ΝA	<b>∀</b> 7	ΥN	ΝΑ	ΑN	₩Z	4	
2-Methyl-4.6-dintrophenol	ъgч	785	NA	NA	AN	AN	Ž	42	₹Z	
2-Nitrophenol	μαγ	ı	NA	ΨN	AN	A.N.	NA NA	4	ΨZ	
4-Nitrophenol	₽6d	i	ΥA	ΥN	¥	¥	Ϋ́	47	ΨN	
Pentachlorophenol	,5n	7.9	NA	ΑN	NA	Ā	ĄX	ΨŽ	ΨN	, c
Phanol	ľý.	4,500,000	NA	ΑN	ΝĀ	A.	¥	۸×	ΑX	٥
2,4,6-Trichlorophenal	l/Srl	6.5	NA	Ϋ́N	AN	ž	AN	ΔN	N.A.	, ,
Votals	100	100				17.0			CV.	1000
Dissolved Allminum	, Or	-	AN	AN.	NA	۸A	NA	NA	Ü	0
Discourse Assess	ōr.	<u> </u>	Ž	<b>∢</b> Z	AN	ΝA	٧×	42		C
Tota Asenic		8	¥2	× ×	Α,	NA	A.A.	NA	)	0
Total Anilmony	1					J	0	Ç	၁	٥
Disselved Becyling				3		0	a	3	47.	NA
Total Beryllium	2		4	a k	ΨŽ,	¥,	¥Z.	NA	0	5
Disselved Boron	/67		42	7 8 2			٥	0	0	0
Total Boron	1/64		47	Į V	\$ 2	Y.	<b>√</b> .	AM	3700	3930
Dissolved Cadmium	1,64	9.3	V Z	₹Z	2	4N	Z 2	47	COSE	3200
Total Cadmicm	_ hgd	-	0	٥		C	٤	- L	C C	٥
Dissolved Chromicm®	064	90	ΑN	AN.	Y.	AN.	N N	**	,	، ا
Total Chrom um	μαγ	ti	0	c	0		7.05	8.05	aN.	O SIN
I diai Caromium +6	J.Srl	1	NA.	NA	ΨZ	ž	A.V.	¥	c	٥
Total Connection	l'3ri	3.1	₹Z	N.A.	ď Z	NA	A.A.	ΑΝ		. 24
Dissolved 1:00	Jon 1	1	٥	0	D	0	10.8	10.15	120	150
Total loo	Ó	1	NA .	Ϋ́	4	N.A.	ΑN	NA	4	88
Dissolved Lead	o c	1 3	Y S	₹Z	ž	ΝÀ	¥'∕	NA	320	490
Total ped	2	Ö	¥ (	ž	AA.	ΑĀ	Ϋ́Α	Ϋ́	ပ	٥
Disso ved Manganese	100		272	n s	23	24	36.5	40.5	ပ	0
Total Manganese	201	1	₩V	472	2		ď.	Ž	3	o
Disselved Mercury	1/51	i	¥	A Z	AN AN	V V	¥	¥ .	0	Ü
Total Mercury	1/63	+:	0	0	0	C	5 0	2	0 10	٥
Dissolved Nickel	1,61	9.2	¥χ	Ψ.	AN.	ΑN	ΑN	2	CC.C	0.30
Dispersed Colors	HOW THE	11	0	0	0	0	0	c		o
Total Selenium	Von	1,6	<b>₹</b>	ď.	¥	-tV	NA	₩2	. 060	. 049
Cissolved Silver	, Con		, ,	72		0 5	3.9	3.5	360 *	450 *
			T	Ş	Y.	AA.	32	<b>▼</b> Z	0	٥

# Playa Vista Water Quality Sampling Dry Weather - Ballona Channel - Saltwater Portion CDM Summary of 1996-1998

Parameters			1996 CDM	1996 CDM	1996 CDM	1996 CDM	1996 CDM	1996 CDM	MO2868	MOD OR
	# 5	CTR Chronic	CDM	SWM	SS1	\$52	SWM-COMP"	SS1-COMP	PVB06-WM	PVB07-WM
	<u>.</u>		Walk Brdge	SW Marsh	Saline SIA.	Saline Sta. 1/15/96	SW Marsh 4/17/86	Salinity 1 4/17/96	Ballone Ch. 7/20/98	Flap Gates 7/20/98
			OR PET	200		Ç	0	6	0	0
Total Silver	hg/l	1	) !	>	2		V. V.	72	٦	٥
Dissolved Trailium	l/bd/	_	٨٧	ž	4	ž	=		-	
Total Thatium	l'bri	1	0	0	5	0	>		, 0,7	120
Deschool Zinc	l'on	81	₹2	٩X	a Z	Ϋ́Υ	ź	¥	217	
Total Zinc	P.U.		C	ဂ	0	0	0		07:	00
10/01 Cm 10	The second second	2000	9		1000					
Pasificioles	1 . S. C. C. C.		100			117	VIV	42	AN	•
peta-BHC	/bn	0.046	NA	ΑN	ž	¥.	5		\sqrt{2}	
Anta-AHC	1/011	1	Ϋ́	47	¥	Y.	¥Z	CZ.	5	
200-200			ΨN	47	AN	YN.	¥Z.	NA.	ξ.	-   
0,4'-000	V.			_	T N	ΨZ	₹Z	₹Z	₹Z.	Φ.
P.PDD0	1.30	0.00084	Y.				8 2	ΑIA	A.V.	-
300- <b>A</b> 0	Į/Bri	. 1	ΑN	NA	ž	<b>4</b> 2	V.			6
300.00		0.00059	ž	Ϋ́Z	Z.	ΨZ	AA.	ď	5	
		56.5	17	ΑN	ΑN	<b>₹</b> 7	∢ Z	ďZ.	Z.	>

NA - Not Analyzed

ND - Not Analyzed

ND - Not Defected

1996 CDM = 1996, August 14. Camp Dresser & McKee. Bationa Creek Water and Sediment Quality Monitoring Report. 1995/1996, Wat Weather Season, Playa Vista, Celifornia.

1999 CDM = 1998, October. Camp Dresser & McKee. Playa Vista Area A and Area & Wetlands Surface Water and Sediment Monitoring Report.

1999 CDM = 1998, October. Camp Dresser & McKee. Playa Vista Area A and Area & Ander Quality Standards. Estab ishment of Numeric Criteria for Priority Toxio Pollutants for the State of Calfornia.

Fina CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards. Estab ishment of Numeric Criteria for Priority Toxio Pollutants for the State of Calfornia. \* Sample resurt is estimated for chromkin, copper, lead and selenium to be between the method detection limit and the reported quartitation limit. Average of the these values is shown.

 $^{b}\mathrm{CTR}$  oriteria are from Fuman health organisms only criteria, except for pentachlorophend.

\*Criteria for haxavalent chromium was used for chromium

\* Indicates exceeds any of the listed criteria or guidance values.

# Summary of 1996-1998 Playa Vista Water Quality Sampling Dry Weather - Ballona Channel - Saltwater Portion CDM

Miscellaredus might cyanide Cyanide Cyanide Cyanide might TRH+ Gase might TRH+ Gase might TRH+ Gase Might TRH+ Case Might Trial Phenoils might Total Chiforn Mervi Dominate Magnesium might Total Calchord Magnesium might Total Calchord Magnesium might Dissolved Sodium might Dissolved Sodium might Might Solitate might Mig	<u>*</u>	26 2004 2004 2004 2004 20004 2000 2000 2	ξŘ	Minimum 0.0017 ND ND ND ND ND ND ND ND ND ND ND ND ND	Maximum	Mean 6	Hits / Total
Grease  Grease  Bas  Bas  Dissel  Inencia  Nather Count  Agential  Agensalum  aden Perassium	<del>▐</del> <u>▋▋▍┧┧┧</u> ┪╬┧	2004 28 28 28 28 28 28 28 28 28 28 28 28 28 2		0.000 ON ON ON ON ON ON ON ON ON ON ON ON ON		9.20	E
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E .		2.6 1000 2000 2000 2000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0017		
51 61 34		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1	S 8 8 8 9 9	2 !	3	
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ξ ε >-		1000 200 2.44 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0.0019	6100.0	
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E >		24	~	7	8	42	7 7 2
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Ε <u>τ</u> ε			]	2002	370,000	120,138	200
LD 10				340	360	350	٠ŀ
ε >			1 1 1 1	6:0	C02,C08	306,658	-}
Ε	H	1 1 1	1 1 1	COO.	3	1,050	7 / 7
		1 1	1 1	320	330	325	7 7 7
>		1 1	1	320	340	330	┨
	-	1		8,230	8,400	8,300	1
	_		1	8,130	8,400	8,250	2 / 2
Akainity phate phate	1	1	ţ	110	2021	118	ŀ
Alkalıning sphate phate			1	Q	2	2	ŀ
sphate prale	J	1	1	9	2	Q	ŀ
Sphate prate	- 1		I.	8,500	20,020	3,917	٠ŀ
phate phate		1	1	2	6.5	2.2	
phate phate phate		1	1	1 300	2,830	1,917	}
phate prafe		1	-	163	180	175	
phate phate	- ' '	1	1	2,600	4,20C	3.275	- }
e) tar (di	L	1	1	D.	8	0.12	-ŀ
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	1	1 0.0014	I	2	9	QV	~]
	L	1		1,100	1.800	1,450	-1
		,	1	7.92	8.02	7.95	┪
		2.4	1	Q	Q	9	┪
	- 1	1	1	Ð	2	Q.	2 / 6
	1		-	2	2	2 3	210
	!	1		2	2	0.52	- 6
5		-	-	200	2000	46.467	╁
¥5.	s/cit:	1		000/26	94,000	10,107	ŀ
+	ļ	1		17,000	35,050	36.25	ŀ
+				12	Ş	S	·
Paga Solids				9	8.500	6.250	2 / 2
Solids				21.0	0.17	0.14	4 4
MBAS				- 2	-	1.45	2 / 2
Organis Carocii			,	Q	12	3.6	4 / 8
	+		-	8	110	55	1/2
	!   !			36	27	26.5	2/2
	+		,	QZ	Ş	Q	1 / 0
STOP STOP STOP STOP STOP STOP STOP STOP			,	1.78	1,78	1.76	- / -

Table A-2.2

# Summary of 1999-1998 Plays Vista Water Quelity Sampling Dry Weather - Ballons Channel - Sattwater Portion CDM

Parameters	Units	CTR Draft SW Criteria	COP	Chronic Toxicity		a	Dry Weather	
					Minimum	Minimum Maximum	Mean	Hits / Total
Volative Organics b	4				4	2		7 / 0
Tetrachicroe:hene	1/6/1	8.35	66	+	2 5	2 5	Ę	ŀ
Toluene	/6d	200000	850.70	1	2 2	£	2	-
Nethylene chloride	No.		- SE		9	Q	QX	0 / 1
1.2-Uichiorosinane	100	470	130	1	Q	2	Ş	0 / 1
4.1.Tribilizations	200		5400C0	ļ	S	QN	QN	3 / 1
Department of the second of th	, 2	7.1	6.5	1	₽	Q	QN	0 / 1
Gittalbenzese	į	28000	4100		Ş	QN	QN	0 / 1
Semi-Voisille Croscio			***					
Vsortthalene	ľgu	1	1	-	Q	69.3	0.78	4
1,2 3-Trichloropropane	l/ori		ŀ	1	S	2.1	0.53	7 , 1
4-Chloro-3-methylpherol	1,6ri	-	1	1	2	2	2	0
2-Chloropheno:	l/6π	\$3	1	1	2	2	2/9	
2,4-Dich:orcphenol	V6rl	36	1	1	2 9	5 5	212	> 0
2,4-Dimethylphenol	V6A	2300	,		2 2	2	2 5	
2.4-Din trophenol	,6A	14000	4			2 2	2 2	, , ,
2-Me:nyl-4,6-dinitropherol	1,64	765	222	ı	2 9	2 5	2 5	,
2-Ntrophenal	1/6/4	1	-		2 2		5	, ,
4-Nitrophenci	1/61	11,		1	2 5	2	Ş	
Pentachiorophenol	l/Cri	7.9	1	1	2 9	2 2	2	, ,
Phenal	Įď.	200004		-			2 5	
2.4.6-Trichlorophenol	ľ <b>o</b>	6.5	65.0	1	ND.	NO.	ON N	, ,
Wetais		20.00			Ş	Š	QN	0 / 2
Dissolved Altmand T	2 2			1	Q	Ŷ	S	0 , 2
Dotal Assembly	2	1 8	S	19	2	2	S	0 / 5
Total Areanic	/20				Q.	Q	QN	0 / 8
Total Antimony	   75n	1	1		SN	Q	Q	9 / D
Dissolved Barvillem	ľgn	,	0.033	-	NG	ON.	2	c / 2
Total Beryllium	1/6/1		<b>j</b>	1	Qν	ᢓ	Q	8 0
Dissolved Boron	l/brl	1	1	į	3,700	300	3.BC0	2 / 2
Total Boron	l/gu	-	1	1	3,500	3 700 3 700	3,600	2 / 2
Dissolved Cadmium	νδα	8.3	4		2	<u>;</u>	250	7
Total Cadmit.m	(/6n	1		:	2 4	1:	2	
Dissclved Chromium	1/6rd	X	8	182	2 2	1 V	200	3 - 0
Total Chromium	1/6/1				2 2	2	2 2	0 / 5
Total Chromium +6	2	1 :	1 2	5	Ŷ	120	OS OS	2 / 2
Disso ved Copper	2	; ; ;			Ş	120	32.62	2 / 8
Discolved Imp	Ž		,	,	7	009	307	2 / 2
Total Iron	100		ļ	1	320	490	405	2 / 2
Dissolved Lead	e e	8.1	9	52	QN	Q	Q	
Total Lead	δi	1	1	I	2	25	27.3	20
Dissolved Manganese	ō	ļ	1		₽	2	2	0 0
Total Manganase	ļδ	1	1	,	2	2	2	v (
Dissolved Mercury	<u> </u>	,	0.16	<b>₹</b>	2 9	200	2000	- 0
Total Mercury	j,br	ł	!!	ı	2 2	2 2	C CN	6 , 4
D ssolved Nickel	Į,	3,8	3	9	2 2	2 2	2 5	α - υ
Total Nicke	0.00	1 7	1 5		36	3	415	2 , 2
Minimales Devicesion	3	,	3 1	1	2	460	102,13	4 / 8
	-							

## Table A-2.2

## Summary of 1998-1998 Playa Vista Water Guality Sampuling Dry Weather - Baltona Chennei - Saltweter Portion 200

Parameters	Units	CTR Draft SW Criteria	COP	Chronic		Ď	Dry Weather	
					Minimum	Maximum	Mean	Hits / Total
Catal Silving	1211	ļ	1	ı	Q	Q	QN	6 / 6
Control Thought			14		QV	QV.	QN	0 / 2
Total Thalling	, c				₽	2	ND	0 / 8
Total Hamman	,	ŭ	8	51	170	210	. 80	3 / 5
Total Zine	n g		ı	ŀ	gN	170	41.25	2 / 8
	***		Stall spell	**			1	***
hata-BMC	),on	0,046		1	QN	2	S	-
delta-BHC	l'On		1	1	2	Q	9	0
0.5-000	המין	ţ	1	1;	Q	Ş	S.	0
000-44	CDII	0.00094	j	ı	DN.	NO	QV	- 0
100.9 C	000	1		ŀ	SO	ON	2	٠ / ٦
P P-DDE	9	650000		-	٥٧	Q.	9	0 / 1
Amelin PCB-1254	yon.	0.3	0.000019	1	Q	\D	Q	0 1

0 - Not Datected

NA - Not Analyzed ND - Not Detected

1996 CDM = 1996. August 14. Camp Dresser & McKee. Ballone Creek Water and Sectiment Quality Monitoring Report, 1995/1996, Wet Weather Sesson, Playa Vista, California.

Final CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numerio Criteria for Prority Toxio Pollutants for the State of California. 1993 CDM # 1998, October. Camp Dresser & McKee. Playa Viste Area A and Area B Wetlands Surface Water and Sediment Worr coring Report.

\*Sample result is estimated for chromium, copper, lead and selenium to be between the method detection lind and the reported quantitation lind.

<sup>2</sup> CTR criteria are from human health organisms only criteria, except for perteculorophenol.

Average of the these values is shown.

Poriteria for hexavalent chromium was used for chrom um

\* Indicates exceeds any of the listed or teria or guidance values.

### Summery of 1988-2002 Playa Vista Weter Quality Sampling Dry Weather - Ballona Wetlands - Sattwaler CDM

			1998 CDM	2002 CDM	2002 CDM	2002 CDM	2002 CDM
		CTR Chronic		CDM	900 00	WGO I	MG.
Parameters	Units	SW Criteria		NW-1	NW-2	SW-1	SW-2
			Under Culver	8/2/02	8/2/02	8/2/02	8/2/02
3.90.97.2				100	100		
Total Coliform	MPN/100mi	ı	0	0	0	0	
Pecal Coliforn	MPN/100ml	-	0	S	c	ات	2
Discoved Calcium	hon.	ļ	370	N.A.	ų, V	¥	Ž
Total Calcium	I/CIII		360	316	350	350	Cee
Dissoluted Magnesium	700		1000	ΨN	NA	Ϋ́	Α̈́
Total Maccondum	, ce	1	1100	950	1000	960	2700
Dissolved October 19	200	Ī	350	¥	47	NA	Ą.
DISSCIVED PC(BSSIC/II		1	350	330	380	340	366
Total Potassium	2		0098	¥	ΨZ	ĄN	₹Z
Marched School I	)/OE		8500	C058	9100	0098	23000
Distriction of the control of the co	Jou		001	AN	٩Z	<b>∀</b> ?	Y.
Bicarponate	- Jour		8	AN	47.	\.\A	ΨZ
Underside Albeiteits	mad		0	٥	0	C	0
Chlordo	mad	  - 	17000	0005.	1750	17000	40000
Discrepance files offer	may	1	Ϋ́Z	140	140	160	09Z
Ottobooto Alkalinta	The same	     	¥Z	0	0	16	0
Cultural Containing	100	1	3700	2200	2200	2400	7505
Trial Alta nita	- Kill		ΑN	140	140	.60	560
Lordoceo	To E	1	ž	4700	5400	5800	14000
Total Diversity	100		5,51	0.044	0.063	92.6	0.58
Ornepasobata	light.	<u> </u>	0	0	0	0	٥
000	l <sub>1</sub> ge		610	430	440	540	2002
HC	75	١	N.A.	8.13	821	8.42	623
Z-6.72	Ĵ	1	C	0.099	D	,	0.2
Zitrate.'X	i,5u	ı	đ	0	υ.	٥	ان
ZigiteZ	nc.(	1	0	c	0	٥	٥
TK	l'bu		1,1	2.2	3	3.1	2
Total Inorpanie Nitreger	l'pm	1	0	NA	ΑĀ	4 ∠	ž
Specific Concuctance	mp/sequin	j	ΝΑ	49000	49000	54000	03000
Total Dissolved Solids	me/l	ı	30000	28030	29000	32000	28000
Total Suspended Solids	Vбш	1	32	28	53	OE .	CE S
Total Volatile Sords	1/6w		4900	3500	3800	3800	cons
Total Crosnic Carbon	l/6.⊔	I i	12	3.7	3.4	=	à
dos	l/gm	1	75.9	ν.,	2	3.9	\$
Bromide	γĞШ	1	75	9	75	5	7.00 J
Salinity	946		36	31	32	99	8/
Ovanide	l'gn	1	ΑN	0.	0	0	2 6
Oil and Grease	ďσ	1	¥	0.53	0.33	0,45	200
TPH-Recoverable	l <sub>Q</sub> m	1	NA	Ϋ́	0		9
TPH-Extractable	"gm	_	¥	0.069	0	0.076	
TPH-Volatile (C4-C12)	J/Gri	1	¥	_	C	65	3
Total Phenois	"St	1	Α̈́N	0	0	3	2 8
	EZ.	ı	<b>₹</b>	e 60	-	U, d	28

Table A-2.3

# Summary of 1988-2002 Plays Viste Water Quality Sampling Dry Weather - Ballons Wetlands - Saltwater CDM

	-		1000 0004	SOOP COM	2002 CDM	2002 CDM	2002 CDM
		CTR Chronic		COM	CDM	COM SW-1	CDM SW-2
Parameters	<b>2</b> 5		_	Red Une	Sait Marsh Effluent 8/2/02	Under Culver 8/2/02	Confluence 8/2/02
			1/1/4/190	0.002	20 TAN 19	A. 1	
Volatile Organics			NA NA	0	0	0	0
1.1.1.2-regracingrobertality	1	,	¥Z	٥	0	0	0
1, 1, 1 - Individual and individual	1/00	F	Q.Z	0	0	Ö	0
1, 1, 2, 2 · 1 Butaum Coeulians	1/on		Ϋ́Z	0	0	0	0
1.1.2. Inchiprosibate	1,00	42	Z Y	O	0	0	0
1 4-Dichloroghapa	ng/L		Ź	٥	6	0	°
1. Dich proathene	7,57	32	¥	0	C	٥	0
1-Dichlorogoda	Jon John	1	¥	0	C	0	0
1 2 3. Trichlorobanzene	700	1	AN	0	0	c	٥
1 o 4. Tripherobaczane	764	1	¥	0	0	c	٥
1.2.4.7 rimethythenzene	1/6/1	1	ΝΑ	0	0	0	0
1.2-Dibrono-3-chloropropane	1,63		Ϋ́	0	0	٥	٥
1.2-Dibremoethane	787	1	NA	¢.	O.	٥	٥
1.2-Dichloroethane	µgv1.	66	Y.A.	¢	٥	٥	٥
1 2-Dichlorobenzene	1,611	1	V.A	C	Ö	0	
1.2-Dichlorogropane	Light.	es	N.A	C	0	ပါ	٥
1.3-Dichlarobenzene	J/gr.	1	N.A	O	Ö		
1.3-Dichlorocropane	J'QL	ı	NA	c	0	٥	
1.3.5-Trimethy banzane	Jor		NA	٥	0	ار	5 6
1.4-Dichlorobanzane	1,61		ΥN	0	0	0	2
2.2-Dichloropropare	hg/L	1	NA	0	0		
2-Butanone	J.Sr.	1	ΑN	0	0	٥	
2-Chlorotcluene	1,5rl		ΥN	٥	o	٥	
2-Hexanone	7,6d	1	NA	٥	c	0	
4-Chlorotoluene	PQ.L	-	ΑΝ	ان	c		باد
Acetone	1997	1	τX	0	C	5.4	١
Втогностиности	pg/L		ΥN	0	C		
Bromochioromethane	hg/L	-	¥	٥	0	3	-   
Brcmobenzene	100V		¥	٥	0		١
Bromomethane	7/6/1		ΑÄ	0	0		٥
Banzane	7/61	7.1	ΑΝ	0	0		٥ اد
Вгологонт	η.δ.r.	360	Ϋ́	٥	0		
Chlorodibromomethans	1)Crl	34	¥	01	3		
Chloropenzene	, on	21030	¥ .	2		> -	, ,
Carbon Tetrachioride	1,611	4.	4.4				, 0
Chloroethane		1	42		0		٥
Chlorotorm			NAN.		0.35	٥	0.23
Consolitation Distriction	200		AN.	٥	0	0	2.6
Dibromometrana	100	  -	NA	٥	0	0	0
Displacements	730		Ϋ́	0	0	0	٥
Tty Decision of the Party of th	¥6,1	29000	NA	0	0	0	0
Hexachlorobt.aoiene	1,61	ו	λ×	0	0	0	0
Sopropylbenzana	ן,םּל		ΝA	0	0	0	2
Methyl (sobury) ketone	1,6d		NA A	ပ	c	0,	3
m,p-Xylene	J/6rl	ı	¥	٥	2	0	0.2
Methyl-ten-butyl-ether	₽9/L	Ļ	ž	0.28			
Methylena Chlorida	10V	1600	ź	0	2		,
n-Butytbenzena	. µg/t.	ł	¥	٥	0,	,	
enezneciyqov1-u	<b>√</b> 6π	1	¥	0	2		ļ

# Summary of 1998-2002 Playe Viste Weder Quality Sempling Ory Weather - Ballona Wedands - Saltwater CDM

			1998 CDM	2002 CDM	2002 CDM	2002 CDM	2002 CDM
	:	CTR Chronic		COM	MOD N	CDM	CDM SW-2
Parametera	Z Z	SW Criteria	PVBOPVS Index Cilles	Red Line	Salt Marsh Effluent	Under Culver	Confluence
			7/14/98	8/2/02	B/2/02	8/2/02	8,2/02
p-trop reputtoluene	J/Cn	1	ΑN	0	0	0.57	c
o-Xuene	1/5/1	1	ΑΝ	0	. 0	0	C
ooc. Rutultanyana	1/6/1	,	Ϋ́	0	c	ဂ	O
tert. Buttchenzene	125	ı	٩X	0	c	٥	٥
Shrade	2	,	42	0	c	0	0
Trimhorophone	į	181	Ϋ́Х	C	0	0	0
Trich occurrence	J.		AN	C	a	0	O
Tokiasa	Į.	200000	Αχ	0.15	0.14	0	D
Total	1 2	9.85	4Z	0	0	٥	D
l ettechoroeurene	2		¥Z	C	D	٥	0
Varyl Acetate	100	205	2 4 2	, ,	C	ن	0
Viny' Chloride		070	V.	, .	C	c	0.2
Total Xyla⊓es	2	1	2		, c	ت	0
cis-1,2-Dichlorosthene	2		¥.4			°	0
ois-1,3-Dichloropropene		1	VIV.			٥	0
:rans-1,2-D:chloroethene	HQ.L	1	ž			,	
trans-1,3-Dienlorapracene	1/60	-	N/N	- 13		0.00	- 1. Complete 3
emi-Voletile Organics	4						0
1,2,4-Trichlorobenzana	190/L	1	ž				,
1,2-Dichlorobenzene	) pg./	17000	¥	0	6	,	
1,2-Diphenyihydrazine	100	+	Ą	0	9		
1,3-Dichlorcbenzene	76n	2600	Y.	•	,	,	, .
1,4-Dichlorcbenzene	VI N	2600	ΨZ.	5 0			3 0
2,4,5-Trichloraphenol	1,6.1	1	5			, ,	
2,4,6-Triphlorophenol	1,61		Z X	5			
2,4-Dichlorophenal	100	087	2 4			0 0	0
2,4-Dimetryiphenol		2000	5	> <			
2,4-Uinitrephenol		Octobe.		,	,	0	0
2, 4-Uinitro(blueng		'	F/4/	,	,	,	
2 5-Dinitrotokuene	1,61	1	¥ .				, 0
2-Chloronaphthalene	1,61	4300	<u> </u>			,	
2-Chlorophanot	161	<u> </u>	ď.				ت ار
2-IVethylnaphthalene	J/Or	-	ď.		٥		
2-tVethylphenol	ğ	<u> </u>	ž	3 (	0 4		
2-Naphthylamine	rg.	1	ž		°		
2-Nitroanline	rg/L	1	ž	0	o «		
2.Nitrophenol	hg/L	;	ď.	٥			
3,3'-Dicalorobenzidine	Jon Marie	0.C77	Ž				
3/4-Methylphenol	100	-	ž	,			
3-Nitroaniline	ng.	1	£ :	٥			
2,6-Dintro-2-Methyphenal	1,51	-	ž	٥,			
4-Bromophenyphenylether	VBI	,	ž	٥			
2-Chloro-3-Methylphenol		1	ž	٠,٠			
4-Chloroanilina	101	-	ď.	3		5	
4-Chlorophenylphenylether	76A	-	ž				
4-Nitroanliine	ν <sub>α</sub>	-	₹.			,	,,
4-Nitraphenal	1,6A		AN.		٥		36
Acenaphthene	ng/L	2700	ž	٥	0		
Acenaphthylere	1,00,1		ξ.			,	, ,
Aniline	1,0,1	1	ž				, -
Anthracene	184	1.0000	ž			, ,	> =
Benzidine	127	1	ž	0		,	,

# Summary of 1996-2002 Playa Vista Water Quality Sampling Dry Weather - Ballons Wetlands - Saitwater CDM

				E-50 Y00 Y			
,		CTR Chronic	_	CDM	CDM	WO W	MGS &
			_	Red Line	Salt Mersh Effluent	Under Culver	Confluence
			7/14/98	8/2/02	8/2/02	8/2/02	8/2/02
Benzc(a)anthracene		0.049	NA	٥	0	0	o
Benzo(a)oyrene	ng/L	0.049	¥.∨	0	0	٥	0
Benzo(b)/fucranthene	"Jor	0.049	٧×	0	Ф	0	3
Benzc(g,h,i)pery'ene	7/6/1		ΨV	0	Ф	S	0
Benzo(k):luoranthane	1/5rl	0.049	¥Ζ	0	0	C	c
Benzo o Acid	7,51	1	ΝA	0	0	J	0
Benzyl Alcohol (phenylmethenol)	J/Sm	1	ΨZ	0	0	ပ	c
bls(2-Chioroethoxy)methane	7,611	ţ	¥N	0		0	c
bls(2-Chloroathyl)ather	7,00	1.4	Ϋ́Х	٥	0	٥	C
histo-Chlorolanmoullathan		170000	ž	D	0	o	c
Net0_Ehydrav/Orbhhaleta	CDE1	9	¥	٥	c	0	0
Airvibacylohibalate	700	5260	A'A	٥	o	0	0
Character	1,07	C.049	Ϋ́	0	C	0	۵
Districted	707	ŀ	ΑN	O	c	٥	0
Dibanzofa trantheacena	700	0.049	¥	0	6	0	٥
Dibaczofuran	1007	ļ	Ž	O	C	0	0
	No.	12000	ΑN	0	C	٥	0
Diethylotha ate	Jon .	000021	¥	0		٥	0
Dimethylophylate	100	2900000	¥		٥	0	0
Flioranthere	LIGHT.	370	ž	0	0	0	0
Fluorene	Į,	14000	ΑN	0	0	0	0
Hexachlorobenzene	1/00	0.00077	¥	0	O	0	3
Hexachiorcbutadiene	1/6/1	60	¥	0	0	0	S
Hexachlorccylclopentadiene	h⊕/L	17000	AN	0	0	0	S
Hexachlorcethane	hg/L	9.9	N.	0	0	0	٥
Indeno(1,2,3-c,d)pyrene	161	0.049	¥	0	0	٥	٥
Isophorone	7/6/i	600	NA	٥	0	0	٥
N-N:trosodimethylamine	1/6d	B.1	A.A.	0	O	0	0
N-N-krosodiphenylamine	1,5%	13	NA.	0	0	0	٥
N-Nitrosodi-n-propylamine	μg/L	1.4	NA NA	0	0	C	٥
Nkrobenzene	J,dr	1900	Ϋ́	٥	3	c	٥
Naphthalene	μ <u>g</u> /L	1	NA NA	٥	5	٥	0
Phenanthrane	אַנּע		ΝΑ	6	ပ		٥.
Pyrane	1,61	11000	Ψ.	0	٥	٥	0
Phenol	μDVL	1	NA		Ö	0	0
Aetals*							The second second
Dissolved Aluminum	hg/	1	C	Ą	¥N,	Ψ.	Y .
Total Aluminum	jy6n	ı	0	2	0.16	78.7	- 1
Dissolved Antimony	1/6/I		¥	74.5	10.0	- 120	,
Total Antimony	Jon 1	1 8	NA P 98	9 9	2.0	5.3°	200
Diasolved Arsenio		2	3 2	1 4	00	2 6	22
Dissipant Describes	70		3	3		C	٥
Trad Berelline	100		٥		, 0	, 0	٥
Dissolved Boron	1/011		4000	Ϋ́	V.	<b>₹</b> Z	AN
Total Boron	100	ļ	4100	6.8	4	6,4	-
Dissolved Cacmium	10:1	9.3	0	C	0	60.08	0.11
Total Cadmium	1/5/1		0	0	0.066	C.18	0.49
Dissolved Chromium <sup>b</sup>	J/čri	50	0	0	0	0.98	3.3
Total Change into	100		0	0.75	1.4	2.4	2.8

### Summary of 1999-2002 Playa Vista Weter Quality Sampling Dry Weather - Ballona Wetlands - Sattweler CDM

	_		: (	1400	760	NGO.	COM
	;	CTR Chronic					200
Peremeters	\$1IIO	SY CHIERDS	Lader Publica	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NW-Z	Under Culver	Confinence
			7/14/98	180 Line 8/2/02	8/2/02	8/2/02	8/2/02
Total Coromicm (VI)	(,On	,	0	ΑN	ΑN	Vγ	ΑN
Dissolved Copper	1/61	3.1	c	B.3	8.4	8.4	- 50
Total Copper	1/6/1	ı	٥	8.8	9.3	8,4	58
Dissolved Iron	1/6/1	1	٥	ΑΝ	ΨN	∀N	ΝA
Total Iron	1/64	1	180	0.19	0.29	C.22	2.9
Dissolved Lead	1/6:1	8.1	0	c	3	ō	0.45
Total Lead	1/6/1	ı	0	0.97	1.2	. 2	12
Dissolved Manganese	1/8rt		0	NA	¥V.	N.A	ΝA
Total Manganese	1/6/1	_	19	0.031	C.027	C.39	0.68
Dissolved Mercury	1/6/2		0	0	0	0	0
Total Mercury	Jen Jen	-	0	G	0	0	0
Dissolved Nickel	Ž	8.2	0	2.5	2.9	2.4	B.7 *
Total Mickel	l/dn		0	3.4	n	2.6	£3
Dissolved Selenium	, to	۲	270	1.9	8.8	11	33
Total Selentum	l Cr	-	280	16	15	24	71
Dissolved Silver	)A	ì	0	0	0	0	0.12
Total Silver	/Sr	1	0	0	0	)	0.31
Dissolved Thailium	l/6rt	I	0	0.24	[ · · · · o · · · · · · · · · · · · · ·		0.75
Total Thallium	l/gri	ł	0	0.78	Ü	0	0
Dissolved Zinc	l/dri	181	5,	53	14	ន	48
Total Zing	Į <b>d</b> n	ı	4-	1.1	13	14	38
Pesticides					この の の の の の の の の の の の の の の の の の の		
4,4,000	J/Br/L	0.00084	NA.	0	0	٥	•
4.4*DDE *	µg/L	0.00059	NA.	0	0	Ç	0
4,4*-ODT	µg/L	0.001	N.A	0	0	Ü	0
Akirin *	J/Br/	0.00014	NA	0	0	O	٥
alpha-B#C*	J'g/L	0.013	NA	O	0	0.023 *	0.045
Chlordans	ከውሆ	0.004	ΨN	0	0	0	0
detta-BHC	_1/5ri	1	NA	٥.	0	9	0
Dieldrin	T/Srl	5,0019	NA	0		٥	0
Endosulfan I	hō/L	1	ΨŽ	٥	٥	٥	0
Endosultan II	J'Q'L	1	ΑĀ	0	0	٥	0
Endosutian Sulfate	J,&rl	240	NA	0	0	0	0
Endrin	J)Gr	0.0023	¥Ž	0	0	٥	0
Endrin Aldehyde	-J,Srl	0.31	NA	٥	0	0	٥
gamma-BHC (indene)	J/6rl	ŀ	ΑĀ	0	0	0	0
Heptachlor Epoxide	J,Br	0.0036	<b>₹</b>	٥	0	0	٥
Heptachior	1,50	0.0036	<b>∀</b>	0 (	0	o ·	
Methoxychior	hg/L	1	¥N.	0	3		5 6
Arodici-1016	, de	20.3	¥Z.		0		3
Arador-1221	J,Gr	0.03	ΑN	0	0	0	٥
Aroclor 1232	John Mark	C:03	₹Z	٥	0	0	0
Aroclor-1242	hg/L	C.03	¥V.	٥		0	0,
Arocky-1248	Į,	0.03	AA.	0	٥	0	٥
Arockr-1254	no,r	0.03	¥N.	0		0	c
Arodor-1260		300	A.Y			> <	0
PCSS	JOH.	20.0	NA PARTIES				
				THE RESIDENCE OF THE PARTY OF T			1

## Playa Vista Water Quality Sampling Dry Weather - Ballona Wetlands - Sattweler Summary of 1988-2002

			1998 CDM	2002 CDM	2002 CDM	2002 CDM	2002 CDM
	:	CTR Chronic	lo CDM	CDM	NO.	MOS	NO.
Parameters	51 10 10 10 10 10 10 10 10 10 10 10 10 10	SW Criteria	PVB09-WS	Niver Back Line	Solf Mereh Effluent	linder Culver	Confluence
			7/14/98	8/2/02	6/2/02	8,2/02	8/2/02
Bolstar	J/G/L		¥	0	c	c	0
Chloropyritos	יטר ר	ı	≨	0	c	0	0
Cuomatos	Jan.	1	ž	0	c	0	0
Demeton	J.Gr	1	ΑΝ	c	c c	0	0
Diazinon	J.on		Ϋ́	C	c ]	O	ပ
Dich prvos	1/65	ì	ž	C	0	0	U
Distriblen	Jose	ı	ΑN	0	0	0	O
Ethoprop	Įģ.	1	ΑN	٥	٥	0	ပ
Fensulfctnlor	יופיו	1	ΑΝ	0	0	0	ပ
Fentlon	ng/L	-	ΑN	o	٥	ວ	0
Merphos	J.Gil	1	ΑN	0	0	o	٥
Methyl Perathion	Į,	1	Ϋ́N	0	. 0	O.	٥
Mevionphos (Phosonin)	J/6rl	i	Ϋ́	0	· ·	٥	٥
Naled	L/Gri		ΑN	D	ပ	ت	٥
Phorate	L <sub>O</sub> L	1	<b>∀</b> ,>	0	O	0	0
Prothiolos	Jon M		N.A.	0	٥.	0	0
Honrel	7,5rd	_	<b>∀</b> ⁄	D	0	0	٥
Tefrachlorvinphos	T/Gri	1	¥Ζ	D	0	0	o.
Trichloroeste	LOL L	ı	ΝA	J	0	o	0

Notes:

0 - Not Detected

ND - Not Detected NA - Not Analyzed

1998 CDM = 1989, October, Camp Dresser & McKee. Playa Vista Area A and Area B Welland 2002 CDM = 2002, August 2. Camp Dresser & McKee. Ballona Wellands Water Quality Samr Final CTR SW Criteria = 2000, Way 18. Federal Register Volume 55, No. 97, 40 CFP Part 131 Establishment of Nurraric Criteria for Priority Toxic Pollutants for the State of Celifornia.

CTR criteria are from human health organisms only criteria except for peniachlerophenol.

<sup>b</sup>Criteria for hexavalent chromium was used for chromium

\*Sample result is estimated for chromium, copper, lead and selenium to be between the methor reported quantitation limit. Average of the these values is snown. Indicates exceeds any of the listed orderia or guidance values.

Table A-2.3

# Summery of 1986-2002 Plays Vista Water Quality Sampling Dry Weather - Ballona Wattends - Saltwater CDM

Parametera	Units	CTR Chronic SW Criteria		Dry Westher	Ę	
			Minimum	Maximum	П	Hits / Total
Beneral	STATE OF THE PARTY		· · · · · · · · · · · · · · · · · · ·	2 (A) (A)		
Total Col form	MPN/:00ml	1	QN	ON ON	QV	0 / 2
Feoral Coutorm	MPN/100ml	_	QN	ON.	9	0 / 5
Dissalved Ca.c.um	λά ω	1	370	370	370	- '
Total Calcium	Š	1	310	086	476	5 / 5
Dissolved Magnesium	Š	i	1000	1000	000'1	1 / 1
Total Magnesium	υ	1	096	2700	1,342	2/2
Dissolved Potassium	200	1	350	350	350	1 / 1
Total Potessium	mg/l	ı	330	090	462	5 / 5
Dissolved Sodium	Jager 1		8400	8400	8,400	1/1
Total Sodium	l'au	ţ	3500	23000	11,520	5 / 5
Birarhooste	, oe	1	100	100	100	1 / 1
Carbonale	uga.	-	96	96	96	1 / 1
Hydrox de Alkalinity	mc/l	-	S	QN	Q.V.	5 / 0
Oblorida	mc/l		15000	40000	21,200	5 / 5
Steamonate Alkalinity	136	1	140	260	175	4 / 4
Carbonata Alkalinity	nc/	ı	QZ	16	7	1 / 4
Sulfale	l'ou	ı	52002	7500	3,600	5 7 5
Total Alkalinity	ma.	ľ	140	260	175,00	4 / 4
Hardness	ma,	-	C04#	14000	7,475.00	4 / 4
Total Prospherus	"ma		0.044	0.66	19:0	5 / 5
Orthophosphate	րծա	ļ	Q	QN	ND	0 ( 5
COD	ľgn	1	C£#	2000	\$0\$	g
Ha	1.5	-	8.13	8.42	8.25	4 . 4
Z-EIZ,	€,pm	1	2	0.2	0.05	2 / 5
N-etart'N	րըա	_	Q	GN.	QN	0 / 5
N-eith.	ma,		Q	Q.	QN	0 / 5
	μōш	ı	1,1	3.4	2.36	5 / 5
Inordanic Nerogen	Pom	ı	Ŝ	QN.	QN	0 / 1
	umbos/om		49000	130000	70,500	4 / 4
	l/gm	1	28000	78000	39,400	2 / 2
8	1/6/21	1	28	310	85.8	5 / 5
	mad		3400	cope	4,960	5 / 5
Total Organic Carbon	l/g/II	ı	3.4		19.4	5 / 5
BOD	E V		1,4	75.9	23.4	5 / 5
Bromide	1/6	ı	09	190	98.2	5 / 5
Salinity	8	1	31	79	42.8	5 / 5
Cvanda	e M	ı	S	ON	ON.	0 / 4
Oil and Grease	ă	1	0.33	0.62	0.49	4 / 4
TPH-Recoverable	hgm	1	QN	0.46	0.15	١ / ع
TPH-Extractable	L <sub>Q</sub>	1	Q	0.14	20.0	3 / 4
TPH-Volatile (C4-C12)	pay.	i	QN	54	8.38	2 / 4:
Total Phenois	ě	-	GN	67	ÚZ.	4
			!!!			

Table A-2.3

Summary of 1998-2002 Playa Viste Water Cuality Sampling Dry Weether - Ballona Wetlands - Sattwater CDM

Parameters	Calts	CTR Chronic SW Criteria		Dry Weather	Aher	
	-		ļεļ	11	Mean	Hits / Total
Volatile Organics "					O'N	7
1,1,1,2-Tetrachiorcethane	Į,	-	Q C	S S	200	4 / 0
1,1,1-Trichloroethane	John St	1 7	2 5		2 2	7 / 0
1,1,2,2*  efrachioroemane	Total		2 2	S	GN.	0 / 4
1,1,2-1/ionioro-1,2,2-timecroecame	1000	1 3	Q	2	2	0 / 4
1 1-District athene	700	1	QV	9	ŪΝ	0 / 4
1.1-Dichloroethene	207	3.2	Q	9	ON	0 / 4
1,1-Dichloropropene	, 6rd	i	Q	CA .	Q.	4
1,2,3-Trichlorodenzene	ng/L		Q	ç	QN	4 / 0
1,2,4-Trichicrobenzene	1/6/1		ÚΝ	2	Q	, 0
1,2,4-Trimethylbenzene	764		9	QN C	2	9 0
1,2-Dibramo-3-ch oropropane	אפע	-	QV :	Ž	200	
1,2-Dib-ompethere	Jan 1	1 8	2 2	2 2	222	4 / 0
1,2-Dichloroethane	To To	3		22	CN CN	7
†,2-Dichlorobenzere	1/6/1	1 5	2 5		2	4 / 0
1,2-Dichloropropane	100	ŝ	S CIN	2		ŀ
1,3-Dichlorobenzene	2			2		0
1,3-0 chloropropane		1		2 2		0 / 4
1.3,5-1 tmemylpenzene	100		2 5	CZ	QZ	4 / 0
enezi.agunidade i				QN	ND	6 / 4
A CANDISTINATION OF THE PROPERTY OF THE PROPER			S	Q.Y	97	C / 4
c-Outsing is	1,01	[	CN.	Ę	92	- Q
O. Havanona	nc.		0,	Q	2	5 / 5
4-Chippothliana	1/25	ı	QV.	GN.	QN	7 / 0
Acetone	7,61	l	QN	15	5	2 / 4
Bromodich ordmethane	ng <sub>U</sub>	I	QV	Q	Ŷ	4 , 0
Bromochloromethane	rg/L		QN	QV	g	0 / 4
Sromobenzene	J.Bri		Q	QV	QN	0 / 4
Bromomethane	μα⁄L		Q	ON.	Q	0 / 4
Зепzвна	ካያሊ	71	QN	2	QN	4
Bromoform	_ µg√L	360	æ	QN	QN	0 4
Chicrodibromothane	hg/	34	2	2	2	0 0
Chlorobenzene	₽Đď.	2:000	Ş	DZ.		
Carbon Tetrachloride	76d	4.4	Q.	2	ON CO	4
Chloroethane	no <sub>d</sub>		Q S	2 2	2	
Chlaratorm	1,61	,	202	250	2	2 / 4
Chlorometrane	100		2 2	2.6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4 /
District Organisms	2		2	9	QN	4 / C
Dichlomodifusionathana	i Non		2	av	QN	2 / 4
Fibylbanzana	חמק	29000	ON.	QN	GN	0 / 4
Hexachlorobutadiene	1,611	1	æ	dN .	ΔN	0 / 4
Isopropylbanzena	J/Br/	1	ON.	an .	Ω.	0 / 4
Methyl Isobutyl ketone	l/gri	1	2	QN.	모	0
m.p-Xylene	hg/L	1	ON	0.2	0	
Methyl-tert-butyl-ether	ugil	-	2	0.29	3	- 4
Methylene Chloride	الم	1630	ON !	2	2 9	7
n-Butylbenzene	, gr	1		2	2 2	2 0
n-Procybenzene	1,61	-	D.	ND.	SNO	2

# Summary of 1999-2002 Playa Vista Water Quality Sampling Dry Weather - Ballona Wellands - Saltwaler CDM

Parameters	Unite	CTR Chronic SW Criteria		Dry Weather	elher	
			Minimum	Maximum	Mean	Hite / Total
p-Isopropyltoluene	T/Gr!		ON.	0.57	0	1 / 4
eusiAX-o	J.6d	1	20	QN	QΝ	7 7
sec-Butybenzene	T/6ri	1	QN	QN	QN	0 / 4
1ert-Butylbenzene			QV	ND I	QV	0 / 4
Styrene	η <sub>0</sub> η.		ON	QN	ΩV	0 / 4
Trichloraethene	J/S/I	81		ND	ND	4 / 0
Trichtorofluoromethane	7,51	[	QN	QV	Q۷	0 / 4
Toluere	J'Gd	200000	Q	c.15	0	2 / 4
Tetrachloroethene	J.od	8.35	Q	ON	2	4 , 0
Vinyl Apetate	J.Bd.	_	QV	QN	Q	0 / 4
Vinyl Chloride	1/6d	526	Q	QN	QV	7 / 0
Total Xylenes	hg't.		NO	0.2	0	4 / 4
cis-1,2-D.onloroethere	1,60		QV	QN	ΩN.	7 / 0
cis-1,3-D.chloropropene	ከውሆ	1	Q		ΩN	7 / 0
trans-1,2-Dichkroethene	L/GH	1	QN	QN	QN	C / 4
trans-1,3-Dichkropropane	ug/L	-	QN	QN	QN .	\$ / D
Semi-Volatile Organics	***	A STATE OF THE PARTY.		· · · · · · · · · · · · · · · · · · ·	See Section of the se	The second
1,2,4-Trichlorobenzene	Light.	-			QV	0 / 4
1,2.Dichlorobanzene	µg/L	17000	ON.	QN	QN !	0 / 4
1,2-Olphenylhydrazine	hg/L	_	QN	CIN	QN	5 / 4
1,3-Dichlorcbenzene	hg/L	2800	Q	QN.	ON.	4 / 0
1,4-Dichlorobenzene	l pg/L	2600	QN	QV	QN.	6 / 4
2,4.5-Trichlorophenol	Light.	I	Q	QN	QN.	7 / 0
2,4.6-Trientorophanol	Light.	1	9	QN	Ŷ	7 / 0
2,4-Dichlorophenol	hgy	790	모	Q	QN.	<b>4</b>
2,4-Dimethylpnenol	J/Gr	2300	Q	S	ON	4
2,4-Dinitrophenol	J'Gri	14000	Ġ.	Q	Q	0 / 4
2,4.Dinitrotoluene	hg/L	1	Q	2	Q	0 / 4
2,6-Dinitrotoluene	₽8ď.		2	NO.	QN	4
2-Chloronaphthalene	µg/L	4300	Ŝ	Q.	Q <del>V</del>	0 / 4
2-Chlorophenol	1/6/1	1	2	P	QN	4 / 0
2-Methylnaphthalene	пд√	ţ	2	2	Q	7 0
2-Methylpheno:	157 1	1	QN.	Q	Q	0 4
2-Naphtnylamine	100/L	1	Q	9	QN	0 / 4
2-N:troaniline	ηō√.	1	S	₽	QN	0 / 4
2-Nitrophenol	µg/L	1	Q.	Q	Q	7 / 0
3,3'-Dichlorobenzidine	1/64	C.077	2	Q	Q	4 / 0
3/4-Methy phenol	10d	-	2	2 :	QN I	0 4
3-Nitroaniine	NG/L		2		2	0 / 4
2.5-Unitro-2-Meinylphenol	100	1	2 2	2 2		2 0
2.C. Wood Catholica house	34		2 2	2 5	192	7 0
A Character line	- H.G.		2	2 2		
4. Colorathandahandahar			2 2	2 5	2	
4. Nitroanilina	100		2	2 2	2	4 / 0
4-Nitrophenol	חמק		2	2	QN	4 / 0
Acenaphthene	ng/L	2700	QV.	S	QN	7 / 0
Acenaphthylere	ከያለ		QN	ÖN	Q٧	<b>b</b> / 0
Aniline	µ9/L	1	OΝ	ON.	MD	4 / 0
Anthracene	ካያረ	110000	ON	ON	QΝ	0 / 4
Benzidine	750	1	QN	2	2	4

### Summary of 1998-2002 Playa Vista Water Quelity Sampling Dry Weather - Ballona Wellands - Saltwater CDM

Parameters	Unita	CTR Chronic SW Criteria			ā.	
		1	Minimum	Meximum	Meen	┡
Benzo(a)anthracena	J/Br/	0.049	g	2	2	┪
Benzo(a)pyrene	Jour .	0.049	2	2	2	, , ,
Benzo(b)//uoramhene	1 µ9/L	0.049	Q	Q		٠ŀ
Benzo(g,h,i)perylena	Jou	ŀ	2	QN	2	9
Benzo(k)thoranthene	ካያኒ	C:046	S	Q	Q.	3 6
Benzoic Acid	l ngy.	1	9	Q	Q.	4
Benzyl Alcohol (phenylmethanof)	hθΛ	1	Q	Q	2	0
b.s(2-Chtoroethoxy)methane	μον	1	QN	QN	2	P
bis(2-Chforoethyl)ether	µg∕l.	1.4	ND	ND	2	7
bis(2-Chloroisopropyl)ether	J/6rl	000071	NO.	QV	2	٠ŀ
bis(2-Ethylhexyl)phthalate	7/6/1	5.9	ND	QN	Ş	0 / 4
Butylbenzylphthalate	7,8K	5200	NO	Q	2	4
Chrysene	761	0.049	ND	Q	Q	~ŀ
Di-n-octylohthatate	4	1	QN	ON	ON THE	4 / 0
Dibenzo(a.h)anthracene	701	0.049	QN	QN	2	4
Dinanzoferan	ă		QN.	QN .	9	4 / 0
Discrete de la constante de la		12000	2	QN	ON	0 / 4
Distriction	į	120000	O.V	QZ	웃	<b>*</b> / 0
Distriction	101	0000060	CZ	ΩN	2	7 0 4
City and make the	101	870	02	ΩN	9	7 0
Chorona		14200	9	QN	Q	7 / 0
Tipologia Disconsiderable control	101	0.00077	Q	GN	Q	4
Development of the control of the co	200	02	CZ	CN	8	4 / 0
T exacting to detail and the second s	1 5	17000	QV	Q.	QN	4 / 0
Devacable de la constant de la const		300	CZ	ON .	ON.	7 / 0
THEXA CITICOLOGICANIO		0700	CZ	2	QV	7 / 0
enter (App. 2-6, 2. Indiana)	2	002	CZ	GN	9	4 / 0
M. Nittone of Branch and Property	1000	ı.	QZ	QN	2	0 / 4
MAINTENANCE AND	100	4	CZ	GN	9	7 / 0
Minister a proposition of	100	7.	CZ	Q	9	4 , 0
A-VIII CAOOI-II-DICOVIBIIII IB		900	CZ	QN	<del>S</del>	0 / 4
MicDenzene	100		2 2	GN	2	0 / 4
Naprii la ibi la	100		2	CN	QZ.	4 / 0
Phenanthrene	100	11000	S S	Ç	2	7 / 0
ryiene			S	Q	₽	0 / 4
Fread					The second secon	
Metals			GN		ä	0 / 1
Tetal A smith and			9	3.1	0.74	3 / 5
Total Authorities		!!!	C 47	× ×	1,00	4 / 4
Algorithm Anthony	200		0.67	1.7	1,04	4 / 4
Cicarly Arenia	Von	88	4.5	66	Ø	5 / 5
Total Areans	Vo.	,	2.1	59	82	5 / 5
Manipole Devices C	200		ę.	QV	QN	0 / 5
Total Benefilm	1/07	1	2	QN	<u>ON</u>	\$ / 0
Discount Bosson	/01		4000	4000	000'*	1 / 1
Total Born	l/on		3.9	4100	825	5 / 5
Dissolved Cadmium	1/6/1	9.3	S	0.11	<b>\$</b> C.0	2 / 5
Total Cadmium	1/6/1	ŀ	2	0.49	0.15	3 / 8
Dissolved Chromium	1/0/1	92	QN	3.3	7	2 / 5
						I

### Summery of 1998-2002 Playe Vista Water Cuelity Sampling Dry Weather - Ballona Wetlands - Sattwater CDM

Parameters	Units	CTR Chronle SW Criteria		Dry Weather	*	
			Minimum	Maximum	Mean	Hits / Total
Total Chromium IVII	lon In	-	QN	QN	2	-
Dissolved Copper	/dr	3.1	Q	50	3.02	
Total Copper	l/6ri	1	Q	29	10.9	6
Dissalved Iron	,/Bri	1	QV	Ŷ	2	╁
Total Iron	/5ri	þ	0.19	190	3/	0
Dissolved Lead	Į.	8.1	9	0.45	0 4	
Total Lead	J,Ort	-	QN	12	20	7
Dissolved Manganese	l/ord	-	ĠN	Q.	QN	
Total Manganese	/ôrl		0.027	19	4.0	6
Dissolved Mercury	ľoď	-	Q	Q	₽!	0
Total Mercury	l⁄gri		ON	Q	ON	2
Dissolved Nickel	hgų .	8.2	S	8.7	3.3	4
Total Nickel	⊬6r _		NO.	13	4.4	
Dissolved Selanum	p84	71	8.1	270	99	2 2
Total Salenium	1/6/1	-	15	260	<i>'</i>	2
Dissolved Silver	1/6/1		ON	0.12	0.02	
Total Silver	1/6/1	ı	DV	0.31	90:06	╌┠
Dissolved Thallium	l/6ri	1	ΔN	5.75	0,26	2
Total Thallum	lø1	1	GN	0.76	0.15	-1
Dissolved Zinc	) Jou	18	14	48	25	٦
Total Zinc	l/on			38	19	
Pacticine					THE RESERVE OF THE PERSON NAMED IN	
4 4'-DDD *	Lou	0.00084	SN	ND	QN	0 / 4
A A'-DDE	10,1	0.00059	CN	QN	ON	0 / 4
4.4.DOT	yon	0.003	200	QN	ON	0 / 4
A LAPID	Von	41000.0	S	QN	ON	0 / 4
	100	0.013	S	0.045	0,017	2 / 4
200000	2	200	ON	Ç	GN	0 / 4
Chiordane	1	3000	GN	CN	N.	6 / 4
delta-BHC	3,00	0,000	22	CN	QX	C / 4
Dieldrin	1,61	9 00:0	S	CZ	2	4 / 0
Endosultan	1,6		Ş	CN	Q	* / 0
Endosultan II			2		2	0 / 4
Endosuran Surate	1		Ş		9	<b>*</b> / 0
Endrin		Ţ	Ş		QN	<b>*</b> / 0
Endrin Aldenyde		1	22		Q	4 / 0
gamma-BHC (Indane)	7,61	8000	2 5	ŀ	2	<b>v</b> / 0
Heptachior Epoxide			2		Q	<b>*</b> / 0
Teplacing	3 :	E	2		Q	7 / 0
Acolog 1016		_	2		QN	0 / 4
	201	ł	Ş		5	7/0
Aroctor 1221		ŀ	2		Q	7 / 0
Arbdior 1232	2 3		CZ		Ŷ	0 / 4
Arodior-1242		800	2		gN	4 .0
Arogior-1248		ı			gN	0 / 4
Aracior-1254	1	ı	2 2		S	0 / 4
Aracior-1250		ı	Z		2	0 / 4
FCBs						
A sleep to Adathyl	l uo/L		QN		QN	0 / 4
ALI'MILLETIVE (177)						

### Summary of 1998-2002 Plays Vists Water Quality Sampling Dry Weather - Ballons Wettands - Saltwater Š

Parameters	Unik	CTR Chronic SW Criteria		Dry Weather	iber.	
		<b>L</b>	Minimum	Maximum	Mean	Hits / Total
Boletay	חמין	,	S	O.	QN	0 / 4
Chloropyilos	٩	ı	S	Q	QN	0 / 4
Cumples	Į,	ł	2	Q	QN	0 / 4
Contaction	1	,	2	Ŋ	QN	0 / 4
Diomini di managana di managan	nc/J		9	Q	ON	0 / 4
Dichloros	เล	ļ	S	QX	QV	0 / 4
Disulform	no,r		Q	GN	O.	0 / 4
Fiboora	יוסור		2	ON	ON	4 / 0
Fensulfathion	HQ/L		Q	ON	ON	4 / 0
Fention	J.Bri	1	QN	ND	ND.	<b>\$</b> / 0
Membos	YO'L	1	QX.	ND	Q2	0
Methyl Parathon	1,01	1	ON	ND.	Ġ.	4 / 0
Mevionophos (Phosdarin)	110A	1	QN	QN .	Q	0
Nafed	ηđη	-	ON	QN	Q.	4
Phorate	76n	ı	ON.	QN	QN	0
Prothictos	19A		Q	QN	QN	0 / 4
Ronel	P <sub>G</sub> r	-	QN	QN.	Q	4 / 0
Tetrachlowinohos	1/6/1	1	QN	QN	Ö	0 / 4
Trichiperonate	2		QX	Q	QN	4

0 • Not Detected

ND · Not Detected NA · Not Analyzed

1998 CDM = 1998, October, Camp Dresser & McKee, Playa Vista Area A and Area B Wetlands Surface Water and Sediment Monitoring Report.
2002 CDM = 2002, August 2, Camp Dresser & McKee, Ballone Wetlands Water Quality Sampling, Dry Weather, Playa Vista, California.

Final CTR SW Criteria × 2030, May 18, Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numerio Criteria for Priority Toxio Pollutants

for the State of California.

\*CTR criteria are from human health organisms only criteria, except for pentachlorophenol. \*Criteria for hexavalent chromlum was used for chromium

\*Sample result is estimated for chrom.um, copper, lead and saferium to be between the method detection limit and the reported quantitation limit. Average of the these values is shown.
\* Indicates exceeds any of the listed criteria or guidance values.

# Summary of 1995-1996 Plays Vista Water Quality Sampling Wet Weather - Bellona Channel - Saltwater Portion CDM

			1986 CDM	1996 CDM	1996 CDM	1996 CDM	1996 CDM	1996 CDM
		CTR Acute	CDM	₩Q5	COM	- COM	<b>X</b> 00	9
Parameters	5	SW Criteria	SWM	8S.1	\$52	WB	MAS	295
			SW Marsh	Saline Sta.	Saline Ste.	Walk Brdge	SW Mersh	Saline Sta.
			12/13/95	12/13/95	12/13/95	1/31/96	1/31/96	1/31/96
	Mark Service							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Oit and Grease	μδή	+	0	14		2	,	,
Ammonia	l'agmi		2.4	8.	- 3	1.1	2	
Dissolved Calcium	l <sub>l</sub> gn		26000	20000	13003	32000	130000	46000
Dissolved Magnesium	l'agin		28000	20200	5400	63000	350000	100000
Chloride	l <sub>Q</sub> E	,	909	310	69	1100	6900	3900
Piggin	Į.	ļ	23	15	10.2	N.A	V.≱	W
Sulfate	, out		22	69	22	140	930	410
Albaliate	700		57	35	30	\$	286	63
Aralling			ya.	130	2	340	1800	420
SSECTION	151		30 6	200	36	42.0	0.46	4.0
I otal Phosphate	i.ōw.		27	3	2,2	6:0		,
Orthophosphate	γď	1	0.31	<del>\$</del>	0.34	2	255	
Tributyltin	1/6/	-	0	0	0	0.012	0.003	210:0
#d	96	1	7,04	7.17	7.04	7.01	7.37	2.03
ス・エン	ľα	1	₹2	AN.	Ą	ž	Ϋ́	NA.
1KV	μo'll	1	5,4	4.5	3.7	0.43	0.18	0.26
Specific Conductance	ma/sadmit	1	1800	1200	390	4100	23000	6600
Total Dissolved Solids	Pag	,	1+00	700	230	3200	11360	2000
Total Suspended Solids	Ç		¥	ΑN	٨٨	۸N	N.A.	N.A.
Volatile Suspended Solids	l'oE	, ,	36	21	47	0	18	36
MEAS	may	1	0.081	0.23	0.051	0.43	0.18	0.26
aco	Įσщ		178	187	183	33.8	18.3	15
Bromide	Į,6ri		ď Ž	N.A.	νV	ΝΑ	¥N.	Ϋ́
Sa nity	l/gu	1	¥	N.A	NA	ΑN	¥.X	ž
Silica	l/gu		NA	NA	N.A	¥	≨	¥
			NA NA	NA.	ΝΆ	N.A.	NA A	N.A.
					大学の世界を			
Tetrachloroethene	'Joy'	1	48	1,2	5.4	٥		c
	ľø.	200,000	21	5.9	2.5	Û	٥	c
rganios								
	l/bri		C	0	0	٥	٥	٥
1,2,3-Trichloropropane	]/5rl		0	0	0	Q	0	0
Total Metais								
Total Antimony	l/sin		0	0	c	0	0	¥
Total Arsenic	1/6 <b>ri</b>	-	. 0	0	¢	0	0	ž
Total Beryllium	1/6/1	-	0	0	င	0	0	ž
Total Cadmium	βůd	1	0	0	c	0	٥	ΑÅ
Total Chrom:um	l/6rl	ı	0	0	C	0	0	Ϋ́N
Total Copper	V <sub>G</sub> A	ı	12	12	13	0	30	ΥZ
Total Lead	₽6rl	1	0	0	0 .	0	0	₹ 2
Total Mercury	VBr	ı	J	0	. 0	0	0	<b>₹</b>
Total Nickel	₽0rl	1	0	13	0	0	0	₹Z
Total Selenium	hgu i	1	0	0	O	٥	c	₹.7.
Total Silver	Ngu .	1	0	0	0	0	٥	Ϋ́
Total Thellium	1/61	1	٥	0	O	c	c	Ϋ́
Total Zine	1/61	1	86	123	57	19	21	æ

ND - Not Detected 0 - Not Detected NA - Not Analyzed

Notes:

\*\*Indicates exceeds any of the listed criteria or guidance values.

\*\*CTR criteria are from human health organisms only criteria.

\*\*OTR criteria are from human health organisms only criteria.

\*\*OTR criteria are from human health organisms only criteria.

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\*\*OTR criteria are from human health organisms.

\*\*OTR criteria are from human has the profit of the state of criteria are constituted by the state of criteria are criteria.

# Summary of 1995-1996 Playa Vista Water Quality Sampling Wet Weather - Ballona Channel - Saltwater Portion CDM

			1996 CDM	1996 CDM				
		CTR Acute	COM	WOO		₩.	Wel Weather	
Parameters	<u> </u>	SW Criteria	SWM-COMP CVI Mough	SS1-COMP				
		•	1/31/96	1,31/98	Manimum	Maximum	Mean	Hits / Totel
3erera!	1.X. CO. 1.X. X.					Market Strain Contraction		
Oil and Grease	Į,	1	0	0	Q	4	1,75	~I`
Ammonia	μōω		N.A.	NA NA	Q	2.4	1.28	
Dissolved Calclum	/δω	1	170	163	160	130000	33,416	٠.
Dissolved Magnesium	ľďω	***	540	510	510	350000	70,931	8 / 8
Chloride	-DE	1	¥	ΑN	80	0069	2,128	6 / 6
Nirate	Į.	1	¥Z.	٥	2	22	11,90	3 / 4
Sulfata	ľom.		NA A	Ϋ́Z	22	<b>366</b>	278	8 / 8
Alcelinity	job		₹2	¥.V.	S	88	46	9/9
Hormose	you.		ΨŽ	<b>A</b> N	28	1800	487	9/8
Total Phoenbale	įσω		0.26	0.32	0.26	2.9	1.23	8 / 9
Orthophesphate	Jou.	,	0	٥	2	4:0	0.13	3 / 8
Tabutylin	1/011	1	A.Y.	¥X	ş	0.012	C.3045	3 / 8
Ho	15	,	7.35	7.79	7.01	7.79	7.23	8 / 8
X-112	you.	,	0	٥	£	£	2	2/0
¥	Jou.	!	11	3.6	0.18	6.4	2.27	8 / 8
Specific Conductance	me/sodmis		73000	52:000	98	28000	20,861	B / B
Total Dissolved Solids	l'om		240	96	88	11000	2,321	8 / 8
Total Suspended Solids	Pio E	!	63	120	88	120	\$5	2 / 2
Volatila Suspended Solids	l/om		Ž	¥	2	47	25	9 / 9
MBAS	ma/l		ΑN	ž	0.061	0.43	5.21	9 / 9
BOD	mo4	1	63.9	30.6	15	183	85.9	8 / 8
Bromide	91	!	₹Z	ΝA	QN	CN	Q.	0/0
Satinty	l'gu	j	¥Ν	ΨN	ON	ND	QN	0 / 0
Silica	l'gu	1	NA.	NA.	ΩN	QV	QN	0/0
Strontium 90	l/Grt	1	ΝΑ	¥X	ND	ND	Q	0 / 0
Volatile Organics						A STATE OF THE STA		
Tetrachloroethene	/Bri		ΝA	Ϋ́	S	46	10.6	3 / 6
Tcluene	/6ri	200,000	ΝA	NA	QN	21	4.9	3 / 6
Semi-Volatile Organics								M
Naphthalene	l'gu		ž	Y.A	2	S	2	╌┟
1,2,3-Trichloropropana	l/6ri	ı	Αχ	NA	Q -	Q	Q	9 / 0
Total Metais								
Total Antimony	l'Sri	1	0	0	2	2	9	0 / 7
Total Arsenic	l/Sri		0	C	2	ᄝ	Q	0 / 2
Total Beryllium	1 <sub>0</sub> 0rd	-		0	2	Q.	2	2 / 0
Total Cadmium	į,tiri	1	0	0	ON	QN	윷	0 / 2
Total Chrom Jm	ľgų		0	đ	2	2	2	2 / 0
Total Cooper	ľgď	_	. 0	0	Q	SS	9.57	4 / 7
Total Lead	Lori	-	0	0	2	g	2	0 / 2
Total Mercury	μ5rl		0	¢.	2	2	2	0 / 1
Total Nickel	l/gh		C.024	0	Q	ta	1.86	2 / 7
Total Selenium	ľgd	ł	٥	0	QN	Q	2	0 / 7
Total Silve:	hgu		0	0	QΝ	Q	2	0 / 7
Total Thall-um	hg/l	1	0	0	QN	QN	S	0 / 2
Total Zinc	hgr!	1	0.015	0.021	0,015	123	48.50	8 / 9

ND - Not Detected 0 - Not Detected NA - Not Analyzed

\*\*Chaloates exceeds any of the listed criteria or guidance values.

\*\*Chaloates exceeds any of the listed criteria or guidance values.

\*\*Chaloates exceeds are from human beath organisms only orderia.

\*\*Sediment Quality Monitoring Apport, 1995/1996, Wel Weather Season, Pays Vista, CA Final CTR SW Criteria = 2500, May 18. Federal Register Volume 85, No. 97, 40 CFR Part 131, Waster Quality Standards, Establishment of Numeric Criteria for Priority Todo Pollurants for the State of California.

### Summary of 1996-1998 Plays Vista Sediment Quality Sampling Ballona Channel - Saltwaler Portion CDM

				1000 0000	1100 000				
		AAON	COM	CDM	CDM		Selt	Saltwater	
Persmeler		SOURT	SWM-SED	PVB06-SB	PVB07-SS				
		Marine Sediment	SW Marsh	Bailons Ch.	Flap Gates				
		PELS*	1/15/86	7/20/98	7/20/98		Maximum	Г	Hits / Total
General							1		3
Cil and Grease	таука	_	C	2450	68		2450	838	~!
TRPH	mg/kg	-	NA	230D	53	53	0062	1,177	2/3
TPH - Gas	m:g/kg		0	ò	0	Q.	2	Q	-1
MTBE	ПЭKG	_	ΝA	0 .	0	S	2	₽	0 / 2
TPH - Diesel	5 <b>%</b> 6ш		0	210	13	O.	210	74.3	2 / 3
Tributyi Tin	cyón M	1	0	₩N:	NA	O.	O.	S	٦.
Cyanide	mg/kg	1	A.A.	0.75	1.7	0.75	1,7	1,23	٦ŀ
Silica	mg/kg	-	N.A	290	1200	290	1200	745	2/2
Strontium 90	₽CV9		ΑN	0.115	ΔN	0.115	0.115	0.12	-
Bicarbonate Alkalinity	mgvkg	1	<b>▼</b>	0008	4000	0004	8030	0003	2 / 2
Carbonate Alkailnity	ng/kg	i	ď.		200	2	200	3	2
Hydroxide Alkallriv	ω Ko	-	¥ 2	3 200	2 000	200	000/27	24,000	2/0
Volatile Solids	υ V	-	Z 2000	47,000	000;12	23,000	2000	29,000	-ŀ~
lotal Hardness	ě		30000	2	2	CN CN	2000	1 87	3
N - BICOLUM	CVA		47	,	,	Ę	Ę	Q	0 / 2
Bromide			U62	10.000	200	18	11,000	7.260	3/3
Nitrato Ni	200			000	0	£	£	2	0 / 3
A BIGUNA	2		97			Q	£	2	0 / 2
Orthopological			0	0		Q	2	QN	C / 3
Sallully	gy.	,	Ž	15,5	8.8	8.3	15.5	12.15	2/2
Suffeta	7 E		490	089	1300	490	1000	727	3/3
21	E CYCLE		Α×	٥	0	N	QV	Q	0/2
TKN	DO'CO	L	252	1100	160	09:	1100	PC9	3/3
100	DY/OH		A.	59500	980	5600	29500	17,650	2/2
Total Phosphorus	EV.OU		ź	160	400	160	400	280	212
Total Phosphate	Ş		1.2	4	ž	1,2	1.2	1.20	1/1
Ha	3	,	7.84	8	7.9	7.84	В	7.91	3/3
Catclen	mg/kg	1	7000	9200	2800	5900	€02€	7,533	3/3
Мадгезічт	mg/kg		3800	3300	6800	3300	COB9	4,633	3/3
Potassium	maka	+	አላ	1600	4400	4600	8	3,000	
Sodium	marka		۲N	6500	2605	CO95	6500	6,050	2/2
VOCs					,		ON	NO ON	0 / 3
Methylene chioride	DXG.	-		> 0		2 2	25	2 2	L
Chloreform	S S			5 6		202	Q	g	
1 1-1-dehicoethana			C			QX	Ş	2	0/3
Benzene	P P		C	-	٥	ΩÑ	δ.	₽	0 / 3
Toluane	ng/kg	1	0	•	0	2	Q	2	0/3
Elhylbenzene	e Ayon	L	0	٥			Q	문	0.73
SVOCs									
Total phenois	poyco		0	1.25	3.1	Ð	3.1	145	2 / 3
4-Chioro-3-methylphenol	5y/6ri		0	o	٥	2	g	9	S / C
2-Chlorophenol	65/Bri	8	O	O	0	2	2	ON.	0/3
2,4-Dishlarophenol	Cy/Sri	5	0	0	o	9	ð	ON	0/3
2,4-Dimethylphenol	ρα/κα σ	18	O	5	o	ð	Ŝ	ΩN	0 / 3
2,4-Dinkrophenol	5y/Sri	1	O	0	-	₽	£	2	6 / 0
2-Mathyl-4,8-cinitrophenol	D/Kg	5	0	٥	•	2	2	9	E / 0
2-Nitrophenol	pg/kg	_	0	0	0	9	2	Q	0 / 3

#### Playa Vista Sediment Quality Sampling Ballona Channel - Saltwater Portion Summary of 1996-1998 S S

	L		1998 CDM	1998 CDM	1898 CDM					
		NOAA	CDM	CDM	CDW		88	Saitwater		
Parameter	Chats	SQUIRT	SWM-SED	PVB05-SB	PV807-55					
		Marine Sediment	SW Marsh	Ballona Ch.	Flap Gates					
		PELS								
		1999	1/15/96	7/20/98	7/20/98	Minimum	Maximum	Mean	*	Z O
4-Nitrophanol	By/6ri		0	o	0	NO	2	2	े	,
Pentachiorophenol	GX/St	17	0	0	٥	Ñ	2	QV	0	
ioneda a	no/ka	130	0	0	0	ND	2	ND	· 0	9
P 2 4 6-Trichlorophenol	nc/ka	ł	0	0	٥	QN	NO.	ND	0	9
Matals										
Aluminum	Sign Ko	L	₹Z	2900	0056	2900	9500	6,200	2 -	21
Antimony	morks		0	Ϋ́Z	ΑN	QV	ND	2	0	
Arsenic	marka	41.6	4	3.45	. 0	QN	4	2.48	7 7	
Berylkum	ΒΩ¥α		0	٥	a	Q	2	모	0	, ,
Boron	mpkg		ΨZ	40.5	57	40.8	57	48.6	2 /	2
Cadmium	Παγkα	4.21	o	0.74	0	Q	0.74	0.25	-	Θ,
Chromium	⊒eka a	_	9.6	-11	21	9.6	17	12.53	· E	, ,
Capaer	E Cka		8.1	33.5	18	8.1	33.5	19.87	9.6	e
Iron	96,80	L	ď.	7200	18000	7200	18000	12,600	2/2	~
Lead	morka	112.18	4.	42.5	1.4	14	42.5	23.50	9.	3
* Mandanese	e Acka		¥ Ž	76.5	180	292	160	118	2 /	2
Mencality	mc.ka		0	0.049	0.048	Q	0.049	0.03	2 /	3
Nickel	c Son		7.2	16.5	23	7.2	23	15.6	3 /	3
Selenium	oyou.		0.27	0	0	Q	0.27	900	1 /	
Silver	ma/ka	1.77	٥	0	0	QN	Q	Q.	<i>'</i> 0	
Thalkum	öγ,öш		0	0	0	QN	Ş	Q	`	_
Zinc	mo/ka	ľ	38	175	61	38	175	91.3	) e	3
Pesticides and PCBs		The Part of the Control	THE RESERVE							
beta-6HC	5y⁄d⊓	1	0	0	0	Q	Ç.	2	0 / 3	9
delta-8HC	ng/kg	1	0	0	0	2	운	Q	0 / 3	
000.40	Da/kg		0	0	0	2	g	£	0	,
OCC.4'd	DA/GI	7.81	0	0	0 [	2	Q	g	0	.,
O.PDDE	ngvkg	1	٥	C	0	2	2	ş	0	,,
P,P'-DDE	ug/kg	L	0	٥	0	2	₽	2	•	6
(Aroclor) PCB-1254	pa/kg	188.79	0	٥	0	Q	2	g		e

No. Not Defected

NA - Not Analyzed

NA - Not Analyzed

NA - Not Analyzed

NA - Not Analyzed

ND - Not Defected

Effects Level, level above which adverse effects are frequently expected

1986 CDM = 1996, 1996, 1996, Wet Weather Season, Playa Vista. California.

Report, 1996/1996, Wet Weather Season, Playa Vista Ana A and Area B Wallands Surface Water and Sediment Monitoring Report, 1996 CDM = 1996, October. Cerip Dresser & Mickea. Playa Vista Ana A and Area B Wallands Surface Water and Sediment Monitoring Report, 1996 CDM = 1996, NOAA Starening Quick Reference Tables. NOAA Pazzarat Report 99-1, Seattle, WA. Coastat

Protection and Restoration Divison, National Opeanic and Amorphalic Administration, 12 pages,

Apparant Effects Threshold (AET) is used instead because PEL is not listed

Indicates exceeds guidance values

Tyddynddiwenolog abler YMga Agoda sgyf abs ogda symae 80 pygos (ac PM (s ol 2)

# Summary of 1968 Playa Vista Sediment/Soll Quality Sampling Ballona Wetlands - Saltwater CDM:

	Chilts	NOAA SQUIRT	CDM PVB12-SS	CDM PVB13-5S	CDM PVB14-SS	CDM PV815-SS		Ø	Saltwater		
		Marine Sediment pri	Monitor Loc.	Farmland	Upland	Monitor Loc.					
		1999	7/20/98	7/21/98	7/15/98	7/15/88	Minimum	Maximum	Mean	Hits /	Total
Benera!								Service and the service of the servi	Southern and Stock		
Ull and Grease	₽¥,6E	ı	Ϋ́	43	≨	ž	43	43	43	-	
ТВРН	D)/GE	ı	×	07	≨	ΑĀ	40	5	40	1 /	Ţ
TPH - Gas	: mg/kg	1	ΑΝ	0	¥	¥N	2	QN	QN	10	_
MTBE	mg/kg		ΝΑ	0	ΑN	≱	2	Ş	QN	0	_
TPH - Diesel	mg/kg	ı	₹Z	6.8	ă	ž	6.B	6.9	8.8	-	_
Tributyl Tin	tig/kg		<b>₹</b> Z	ΑN	Ϋ́	ž	9	Q	2	0	
Cyanide	mg/kg	I	٧×	٥	A.A.	¥	S	ě	Ş	0	_
Silica	mg/kg		ΑN	300	Ϋ́	3	88	900	300	-	
Strontium 90	PC//2	.	ΥV	0.1	ž	3	0.1	0.1	0.1	-	L
Bicarbonate Alkalinay	ng/kg		V.A	13000	4600	άX	4600	13000	8,800	2 /	~
Carbonate Alkalinity	mgykg		γA	0	270	Ϋ́	₽	270	1.35	-	~
Hydroxide Alkalinity	mgykg		A.V.	0	O	ΑÑ	2	₽	Q	2/0	
Votatile Solids	mg/kg	Ī	N.A	56000.0	33000	ž	33000	56000	44 500	2	23
Ammonia - N	mg/kg		0	٥	o	0	2	2	ę	7 / 0	Į,
Bromide	mg/kg	-	0	٥	88	96,	ş	130	38	2	4
Chloride	аусш	ı	3600	4400	3026	31000	3600	31000	12,050	4 - 4	
Nitrate - N	D3/kg		C	o	3	0	ş	Q	2	0	Ļ
N:1:0-N	шэжg	1	C	0	0	0	QN	QN	QN	7 0	4
Orhophosphate	maykg		C	0	0	0	Q	ĠŃ	9	7 0	Ļ
Salinity	g/kg	1	7.7	8.6	18	57	7.7	. 25	22.83	7 / 4	Ļ
Sulfate	mg/kg	1	. 200	4100	2830	4000	1700	4130	3,150	41,	
*  -	шg/kg		0	0	D	٥	QN	Ñ	QN	, , 0	
TKN	тол/ка	1	110	520	250	310	110	520	300	4 / 4	
TOC	mg/kg	-	29000	15000	0	5800	QN	28000	12,400	3.1.6	
Total Phosphorus	mg/kg	ı	360	250	440	200	200	440	310	4 /	,
34	3	1	7.7	7.9	7.9	3.1	2.7	9.1	7,9	41.	
Calcium	B9/kg	1	¥	12000	7800	NA	7800	12020	9,500	2/2	~
Magnesium	mg/kg	-	A.A.	9000	8400	AA	64D0	0006	8,700	2 / 3	2
Potassium	mQ/kg	I	NA	4700	4500	N.A.	4530	4700	4,600	2/3	_
Sodium	mg/kg	1	ΝA	COES	2300	٧×	5300	7300	6,300	2 / 2	
SOC	Service Co.										
Methylene chloride	Lg/kg	Γ	NA	٥	¥	ΑN	QV	QV	ΩN	, , , o	
1,2-Dichloroethane	1.9Ag	-	ΝΆ	0	¥	ΑΝ	QV	ę	2	. 0	
Chloroform	1:0/kg	I	NA NA	0	₹	ΑN	ģ	Ş	2	0	
1,1,1-Trichtoroathane	µ9/kg	i	NA	0	ž	ΝΑ	S	Ş	av.	7 0	L
Benzana	палка	f	N.	0	ΝΆ	ΑN	Q	₽	92	1/0	
Toluene	ng.∕kg	1	ΨZ	O	N.A.	NA	Q	QN	ÖN	1 7 0	
Effylbenzene	; µg/kg	4	NA	0	A.	¥	ą	QN	2	. / 0	

### Playa Vista Sediment/Soil Quality Sampling Ballona Wetlands - Saltwater CDM Summary of 1998

Parameter  SYOCs  Total phenols							_	•			
Parameter  SVOCs Total phenois		NOAA	MG3	E C	COM	¥Q0		ň	Saltweler		
SVOCs Total phenols	<b>*</b>	Soular	PVB12-5\$	PVB13-SS	PVB14-5S	PVB15-5\$					
SVOCs Total phenois		Sediment	Monitor Loc.	Farmland	Upland	Monitor Loc.					
SVOCs Total phenols		PELS.									
SVOCs Total phenois		1999	7/20/98	7/21/98	7/15/98	7/15/9B	Minimum	Maximum	Mean	Hits /	Total
Total phanois			A CONTRACTOR OF THE PARTY OF TH		11111111111111111111111111111111111	September 1					
	ng/kg	I	×	1.2	NA	NA	1.2	1.2	120	1	
4-Chloro-3-methylphenol	5жел	1	N.A.	0	NA	ΑN	QN	ON.	QN	7 0	r
2-Chloropheno:	pg/kg .	9	ΝA	C	ΑN	AN	QV	2	ą	0	
<sup>b</sup> 2,4.Diohlorophenol	ByErl	5	ΥX	ဂ	ΑN	ΑŅ	Q	£	£	•	
2,4-Dimethylphenol	3001	18	¥Ž	٥	ΨN	A'N	2	2	2	0	
2,4-Dinitrophenol	D3V67	ı	ΑN	٥	ΑN	ΨN	ð	2	9	70	
2-Methyl-4,6-dinkrophenol	5W6:1		₹Z	٥	Ψ×	A'N	8	2	g	0	
2-Nitrophenol	ngrkg		¥N	٥	ΑN	ΑN	QV	Q	ą	0	
4-Nitrophenol	μg/kg	_	NA .	. 0	NA	ΑN	ď	2	QV.	/ 0	
* Pentachlorophenol	p9/kg	17	₩N	O	AN	ΨN	Q.	Q	Q	0	
Phenol	j 5y∕6d	130	ΑN	٥	NA	NA	ΩN	Q.	QN.	0	
lonefacrchiorate	Dayon	Ð	ΑN	0	۸×	ΑΝ	92	Q	2	0	
Metals		THE PARTY OF THE P			Mark Control	CASH					
Aluminum	тдука	ł	Α'n	12000	13000	NA	12000	13000	12,500		2
Arsenic	пожа	41.6	N,A	5.4	٥	ΝA	QN	5.4	2.7	1	<u>.</u>
Beryllium	пока	-	N.A.	0	0	Ą	QN.	Q.	QV	/ 0	
Boron	ОХЮШ		N.A.	7.0	29	ΑN	- 67	20	69.5	2.1	
Cadmium	mQ/kg	4.21	A.A	0	0	ΑN	QN	QV	g.	10	
Chemium	- 5%Su	160.4	γV	25	22	NA	. 22	25	23.5	2	
Copper	тоука	103.2	A.V.	28	23	ΑN	23	28	25.5	2 /	
Iron	mg/kg	1	A'A	00052	22000	AA	22000	24000	23,000	7 2	_
Lead	пдука	112.18	NA	77	4.3	ΥN	4,3	54	14,15	2.7	
Manganese	шрка	1	NA	440	360	NA	363	440	C0\$	2.7	
Marcury	mg/kg	0.696	ΝA	0.094	90'0	AN	90'0	0.094	0.07	12	
Nicke	⊞g/kg	42.8	ν¥ν	98	30	NA	30	જ્ઞ	32.5	12	
Setenium	mg/kg	1	NA	0	0	AN	ON	QN	g	70	
SHVB	mg/kg (	1.77	NA	0	0	ΑÄ	S	£	ð	0	<u>.</u>
Thallium	mg/kg	-	ΝA	0	0	≱	문	₽	Š	0	
Zinc	mg/kg	271	NA	88	59	¥	65	83	7	5 /	
Pesticides and PCBs			The second second								
beta-BHC	ру'дц	1	ΝÀ	0	ΑĀ	ΑĀ	QN	Q	Ŷ	0	
gelta-BHC	pg/kg		NA	0	NA	AN	Q	ş	2	10	
O'P-DOD	pg/kg		NA	0	NA	Z	QN	읖	2	10	
P,P-000	полка	7.81	NA	. 0	¥¥	N.	및	Q	ON	/ 0	
0,7-008	пака	***	ΑN	0	MA	NA.	ON.	Q	Q	10	
P,P'-DOE	16.YG	374.17	NA	0	NA	₹	Q	ON.	DN.	10	
(Aroclar) PCB-1254	Схубл	196.78	NA	0	Ą	ΑΝ	S	QN	2	0	

On the Defected

NA - Not Analyzed

NA - Not Analyzed

NA - Not Analyzed

ND - Not Detected

ND - NOT Detect

#### Summary of 1998 Piaya Vista Sediment Quality Sampling Ballona Wetlands - Saltwater CDM

			1898 CDM	1998 CDM	1998 CD&N	1998 CDM	1998 CDM					
O. C.	1	NOAA	MQC COM	CDM	CDMF	COM	CDM	_	E I	Drainage Channels		
	5	Marine	2000	20-20-01	2000	3						
		Sediment	Red Line	Under Culver	Canilluence	Gas Co. Rd.	Gas Co. Rd.					
		1999	7/14/98	771408	7/20/96	7/21/98	7/21/98	Minimum	Maxdmum	Mean	Hits	Total
General				A TANK	500000000000000000000000000000000000000			er oak is water oan en en een een een een een een een een				
Oil and Grease	mg/kg.	1	NA	NA	ΑÑ	ď.	62	82	62	95	1	-
нант	Sylow	1	NA	ĀN	NA	Ϋ́N	92	90	99	20	1 1	
TPH - Gas	ωg/kg	ı	Ϋ́	ΝΑ	ΑN	ΝΑ	٥	Ą	ΩV	ş	٥	_
MTBE	mg/kg	t	ΑN	ΨX	ž	ďΖ	٥	QN	2	윷	0	-
TPH - Dieset	mg/kg		Ψ×	ďΧ	3	₹Z	٥	Q	2	ę	0	-
Cyanide	marko		Ä	ΥX	¥	¥X	٥	Q.	Ş	Ω¥	0	-
Siloa	1 mg/kg	Į.	Ϋ́	A.X	¥	¥X	1500	1,503	1,500	1,500	-	-
Strontlum 90	5/02 -		ΨV	ΑN	ž	۸×	0.23	0.23	0	0.23	-	-
Bicarbonate Alkalinity	mg/kg	ļ	3600	086	23000	008	17000	88	53,000	16,240	9	s
Carbonate Akalinity	mg/kg	ŧ	250	300	006	0	0	Q	006	290	9	2
Hydroxide Alkelinity	i mg/kg i		٥	0	0	0	0	Q	QN	QN	7 0	ß
Volatile Solds	1 mg/kg		00008	44000	46000	93000	28000	28,000	63,000	56,200	1 8	5
Ammonla - N	morko	1	٥	0	0	0	0	QΝ	QN	ΔN	0	5
Bromide	mg/kg	ļ	٥	0	0	0	٥	₽	ð	æ	0	ις.
Chloride	i mg/kg j		6700	1800	5703	999	3430	480	6,700	3612	19	2
Nirsta - N	Sy/Gu	-	٥	0	0	ن	0	Q	QN	QN	/ 0	2
Mitrite - N.	mg/kg	_	٥		0	0	0	2	ON	QN	/ 0	2
Orthophosphate	. Ωνkc	1	0	0	0	٥	o	QN	QN	QN	0	5
Salinity	976	1	12	17	9.5	0	6.3	Q	17	86.8	4 /	5
Sulfate	mg/kg	1	620	560	843	1400	620	280	1,400	728	/ 8	2
TIN	ag/kg	i	c	0	0	0	0	QN	_ QN	QN	/ 0	S.
TKN	mg/kg	1	440	190	670	980		190	680	518	1 9	5
TOC	⊕g/kg		15000	13000	24000	45000		11,000		21,600	9	2
Total Phosphorus	Sylvani	-	270	270	240	560	380	240	1	284	9	2
PH	βū	I	8.4	8.7	8.4	7.3		7.8		8.2	/ 9	5
Calcium	mg/kg	1	20000	4:00	30000	3900	C008:	3,900	1	15,200	9	2
Kagnesium	movkg		6300	7300	7700	5500		2,500		6,700	9	2
Potassium	D3/GU	1	3500	2000	3700	2700	3600	2,700	6,000	3,700	27	20
Sodium	mg/kg	I	2600	2500	8100	1.00		1,100		3,880	3	ഹ
NOCS				THE STATE OF				A SAME OF SAME	Ů,			
Methylene chloride	ug/kg		П	A'A	NA	ΨZ		QN	1	QN	0	-
1,2-Dichloroethane	ps/kg	_	ž	ΥN	NA	NA	٥	Q	Q	2	/ 0	-
Chloroform	pg/kg	+	NA	¥Z	NA.	٧×	٥	Ş	Q	9	/ 0	Ţ.
1,1,1-Trichloroetnane	DA'24		AA	NA .	AN	NA	٥	ΔN	Q	2	٥	_
Benzena	DA/Bri	ŧ	AN	ΨZ	NA	ΑN	6	Q	Q	2	0	<b>-</b>
Toluene	нажа	1	NA	N.A.	ΝA	NA.	٥	QN	QN	QN	/ 0	1
Ethylbenzene	ugkg	च	¥	NA	₩A	NA	c	ND	ND	Ş	7 0	

#### Playa Vista Sedimeni Quality Sampling Ballona Wetlands - Saltwater Summary of 1998 CDM

			1998 CDM	1994 CDM	1998 CDM	1998 CDM	1998 CDM					
		MOAA	COM	#OC	MOO	NG5	HQ:		Draine	Drainage Channels		
Persmeter	Chits	SoulRT	PVB06-SS	PVB09-SS	PVB10-5\$	PVB11-65	PVB11-SD					
		Sediment	Red Line	Under Culyer	Confluence	Gas Co. Rd.	Gas Co. Rd.					
		PELs.										
			7/14/98	7/14/98	7/20/98	7/21/98	7/21/98	Minimum	Maximum	Mean	¥.	Total
SVOCs		market in the second	the borney of the second second	A Commence of the Commence of					A Property of the Party of the			
Total phenois	194cg	-	NA	A/A	ΑN	ΑŅ	4.5	4.5	S	4.5	, -	
4-Chlord-3-methytphenot	ōwan i	1	۸۸	NA	NA	ΝA	0	ND	Q	Q	0	
2-Chlorophenol	5XGH	B	Α×	ΑN	NA	٧N	0	ON.	ON	QN	10	1
2.4-Dichlarophenol	.uo⁄ko	9	¥	₹×	ΑZ.	<b>₹</b> 2	P	ş	S	Q	10	1
2,4-Dimethytoheno:	Loke	ş	ΑX	4×	ď	٩N	Ó	Q	Q	Š	0	_
2,4-Dinitrophenol	nako	_	Ϋ́	ΑN	NA	ΨN	٥	S	QN	ND	/ 0	1
2-Methyl-4,6-dinitrophenol	ጕ		ΑN	NA.	NA	<b>4</b> %	0	QN	QN	ND	10	1
2-Narophanol	⊢	1	¥	٧×	Ą	ΨN	٥	NO	ON	ON	/ 0	_
4-N:rephenol	DD/KG	1	Ą.X	¥N.	ΝĄ	WW	0	ON I	NO	Q	0	
Pentachlorophenol	DD/kg	21	ž	¥.v	Ą	¥N.	0	ON	ON.	Ŷ	0	
Phenol	ngvkg	130	ž	A.A.	ΝĀΝ	٧N	0	Ω	ND	QN	(0)	1
2.4.6-Trichlorophenal	no/ko		ž	ΨX	Ϋ́	¥Ν	•	Q.	9	Q	10	1
Mereis		8						The second	100 Co. 100 Co			
Aluminum	таука	-	2600	12000	7900	00001	0098	7,500	12,000	9,200	18	5
Arsenio	mg/kg	9117	2.6	0	3.6	<b>*</b>	3	ΩN	4	2.85	4.1	5
Baryllum	mg/kg	Andah	0	O	ð	D	c	QΝ	ND	CN	/ 0	5
Boron	бу,бш	į	59	58	55	05	99	69	59	55.6	1 9	5
Cadmium	mg/kg	4.21	0.88	0	69.0	17	· · · · · · · · · · · · · · · · · · ·	ΩN	2	0.7	18	5
Chromium	mg/kg	160.4	14	18	14	92	15	14	25	17.4	19	
Copper	mg/kg	108.2	19	23	18	83	20	18	63	28.4	1 9	2
Iran	mg/kg		12000	18000	14000	00024	17000	12,000	18,000	15,600	1 9	ıc.
Lead	mg/kg	112.18	8.4	17	3.2	. 021	3.4	3.2	170	40.4	. 6	9
Manganese	тока	260	150	150	210	176	260	150	260	188	5 /	5
Mercury	mg/kg	0.896	0.042	0.054	0.029	0.17	0.062	0.028	0	5,0712	. 9	9
Nickel	st-grkg	42.8	18	23	21	29	22	18	29	22.8	5 /	s
Selerium	maka		0	၁	0	၁	C	2	ND	QN	0 /	2
Silver	marka	471	0	O	٥	o	٥	ON .	QN	QN	10	\$
Thailium	mg/kg		o	0	0	0	0	QN	_ QN _	ON	7 6	2
Zinc	mg/kg	142	29	25	64	. 098	57	40	350	108.6	5 /	5
Pesticidas and PCBs	100 miles			AND PROPERTY OF STREET			Section Section 4					
beta-BHC	ug/kg	_	NA	N.A.	YN	٧N	0	QN	ON .	ÖΝ	7.0	1
celta-BHC	uoka	l	NA	N.A.	Y.	ΝA	0	ND	ND	S	7 0	
O,P-DDD	Dy/Or	-	ΨN	Ā	٧N	٧N	0	QN	ND	ON.	/ 0	,
P.P000	py-gr.	7.81	AM	NA	NA	N.A	0	QN	ND	QN	10	1
O.P.DDE	8x/or		ΑN	NA.	٧N	ΝA	٥	QN	ND	QN	70	1
P,P'-DDE	D3/kg	374.17	AM	NA	NA	NA	Ò	QV	ND	ON	10	
(Aradov) PCB-1254	DQ/kg	62.861	ΥN	٧V	ΥN	٧N	٥	ΔN	ďΝ	QN	/ 0	

G - Not Detected

NA- Not Analyzed

PEL - Probable Effects Level, level above which adverse elfacts are frequently expected

PEL - Probable Effects Level, level above which adverse elfacts are frequently surface Water and Sediment Monitoring Report.

Probable Effects Level, Desser & Mokee, Playa Vista Area A and Area B Wetlands Surface Water and Sediment Monitoring Report.

Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12 pages.

Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12 pages.

Indicates exceeds guidance values

Appendix A-3 Chambers Group/Soule Existing Data

# Summary of 1992 Plays Vista Water Quality Sampling Ory Weather - Ballone Channel - Saltwater Portion Chambers Group

Control         Control         SV Critics         SV Critics <th></th> <th></th> <th>CTR Chronic</th> <th></th> <th></th> <th></th> <th>Chambrens Gro</th> <th></th> <th>CONTRACTOR OF THE PARTY OF THE</th>			CTR Chronic				Chambrens Gro		CONTRACTOR OF THE PARTY OF THE
10   10   10   10   10   10   10   10	Parameters	Unite	SW Criteria	BC Footbrda	BC 2nd Culv.	In Wetlands	BC Footbrda	BC 2nd Culv	In Wetlands
1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024/92   1024				14	2.A	28	14	*	28
March Greese				10/24/92	10/24/92	10/24/92	11/7/92	11/7/92	11/7/92
The control of the	la la	THE STATE OF THE S	and the second section of					Selection of the select	
Includence   Inc	Oil and Grease	SE.	1	57	27	15	do:	7	80
The control of the	Magnesium	)SE	1	448	88	006	803	80	1350
Item	Potassium	ja B	ı	177	314	473	369	230	537
Table   Tabl	Bicarbonate	ည်	1	163	165	153	228	211	166
12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   12500   125000   125000   125000   125000   125000   125000   125000   125000   125000   125000   125000   1	Carbonate	no.	1	0	ပ	Đ	0	0	0
Participation   Participatio	Chiorice	mg/l	1	7460	12500	17800	12600	8800	17900
The Cartest	Suffate	mg/1	j	1190	1430	2520	1700	1230	2350
Interpretation	Total Phosphorus	l/5ur	4	0.53	0.15	0	C.3	0.29	0,11
Region   R	Immediate Oxygen Demand	1,5u	}	٥	0	0	٥	0	0
titogen mg/, — 12000 20400 131 141 141 141 141 141 141 141 141 141	COD	l/đu:	1	810	180	210	170	95	185
Solid	Organic Nitrogen	√bw	1	6.7	2.5	4.2	1.4	-	1
National	Total Dissolved Solids	μ	1	12000	20400	28930	20700	13630	27600
The Certon mg/l	Volati e Solida	percent	ı	0.24	0.33	0.52	5.34	0.27	0.44
Interior	Total Organic Carbon	FQE.		22	=	10	3.6	3.8	2.4
heare         μg/l         —         0         0           flate         μg/l         —         0         0           file         μg/l         225         0         0           chince         μg/l         1,800         0         0           chince         μg/l         1,800         0         0           chince         μg/l         1,800         0         0           cochiene         μg/l         32         0         0           location         μg/l         470         0         0           location         μg/l         4,4         0         0           location         μg/l         1,700         0         0           chick         μg/l         1,700         0         0           chick <td>e Organics*</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>The state of the s</td>	e Organics*								The state of the s
Part	Chloromethane	VO1	ţ	0	1	0	0	4	Û
Part	Bromomethane	νδη.	1	0	o	0	0	0	0
Decide   D	Dichlorodifluoromethane	/6n	I	0	0	0	0	0	0
Purities	Vinyi Chloride	l/gri	525	0	0	0	0	0	0
National	Chloroethane	l/bri	1	0	0	0	0	0	0
Area         µg/l         —         0         0           Perform         µg/l         3.2         0         0           Name         µg/l         470         0         0           Acrost-ferre         µg/l         470         0         0           Acrost-ferre         µg/l         470         0         0           Acrost-ferre         µg/l         4.4         0         0           Acrost-ferre         µg/l         34         0         0           Acrost-ferre         µg/l         1,700         0         0           Acrost-ferre         µg/l         2,600         0         0           Acrost-ferre         µg/l         17,000         0         0           Acrost-ferre         µg/l         2,600         0	Methylena Chlorida	Ž,	1.600	0	0	0	0	0	0
therine         µg/l         3.2         0         0           hand         µg/l         470.00         0         0           define         µg/l         470         0         0           define         µg/l         4.4         0         0           define         µg/l         4.4         0         0           pillonda         µg/l         1,700         0         0           pillonda         µg/l         1,700         0         0           pillonda         µg/l         1,700         0         0           pillonda         µg/l         2,600         0         0           pillonda         µg/l         2,600         0         0           pillo	Trichlorofluoromenthane	l/6rl	J	. 0	0	С	0	Đ	0
Marcherie   1997	1,1-Dich or ethene	l-βri	3.2	0	0	0		0	0
Notice:tierre         µg/l         140,000         0         0           Thene         µg/l         470         0         0           Self and black         4.4         0         0         0           Self and black         4.4         0         0         0           Shibonde         µg/l         4.4         0         0         0           Shibonde         µg/l         3.5         0         0         0           Sport and black         µg/l         1,700         0         0         0           Settlande         µg/l         1,700         0         0         0           Inplantation         µg/l         1,700         0         0         0           Inplantation         µg/l         1,700         0         0         0         0           Inplantation         µg/l         1,700         0         0         0         0         0           Inplantation         µg/l         1,700         0         0         0         0         0           Inplantation         µg/l         1,700         0         0         0         0         0           Inplantation         <	1, 1-Dichtorethane	hgr)	1	0	0	0	0	0	O
hane         µg/l         470         0         0           selflane         µg/l         ~         0         0         0           purple         4,4         0         0         0         0         0           purple         1,700         0         0         0         0         0         0           purple         1,700         0         0         0         0         0         0         0           purple         1,700         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	trans-1,2-Dichloroethere	րու	140,000	0	0	0	0	0	9
thanse         µg/l         99         0         0           shinnel         µg/l         44         0         0         0           shinnel         µg/l         44         0         0         0         0           vogarie         µg/l         1,700         0         0         0         0         0           korgrosene         µg/l         1,700         0         0         0         0         0           korgrosene         µg/l         1,700         0         0         0         0         0           restrante         µg/l         1,700         0         0         0         0         0           rise         µg/l         1,700         0         0         0         0         0           rise         µg/l         21,000         0         0         0         0         0           rise         µg/l         17,000         0         0         0         0         0           rise         µg/l         2500         0         0         0         0         0           rise         µg/l         2500         0         0         0         0 </td <td>Chloroform</td> <td>μαĵ</td> <td>470</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>۵</td> <td>Ç</td>	Chloroform	μαĵ	470	0	0	0	0	۵	Ç
Defination   Definition   Def	1,2-Dichlorcethane	hgr)	68	0	0	0	0	٥	٥
State   1971   4,4   0   0   0   0   0   0   0   0   0	1,1,1-Trichloroethane	l/Gri		0	0	a	0	٥	יני
Are thanse         µg/l         446         0         0           Opparie         µg/l         1,700         0         0           Indications         µg/l         81         0         0           Indications         µg/l         1,700         0         0           Indications         µg/l         1,700         0         0           Indications         µg/l         2,600         0         0           Indications         µg/l         2,600         0         0           Indications         µg/l         2,600         0         0           Indications         µg/l         17,000         0         0           Indications         µg/l         2,600         0         0           Indications         Indications         0	Carpon Tetrachlonda	i)Sh	4.4	. 0	0	o	0	0	O
Section   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,	Bromodichloromethane	1,60	919	0	0	C	0	0	9
Acropropens         µg/l         1,700         0         0           Testitane         µg/l         42         0         0         0           Saftane         µg/l         1,700         0         0         0         0           Topuspene         µg/l         1,700         0         0         0         0         0           Indications         µg/l         1,700         0         0         0         0         0           Indication         µg/l         21,000         0         0         0         0         0           Indication         µg/l         21,000         0         0         0         0           Indication         µg/l         2500         0         0         0         0           Indication         µg/l         2500         0         0         0         0           Indication         µg/l         2600         0         0         0         0           Indication         µg/l         2600         0         0         0         0           Indication         µg/l         2600         0         0         0         0           Indication	1,2-Dichloropropane	1,51	36	0	О	a	0	0	Ü
10   10   10   10   10   10   10   10	trans-1,3-Dichloropropene	l'gu	1,700	0	0	C .	0	0	٥
1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,00	Trichkmetaene	l/Srl		0	0	С	0	٥	. 3
1,100   1,170   0   0   0   0   0   0   0   0   0	Dibromochloromethane	175/1	34	Û	0	C	0	0	3
1,700   0   0   0   0   0   0   0   0   0	1,1,2-Trichloroethane	l'gu	\$	0	O	0	0	. 0	5
Ilongethane   Ug/l   11   0   0   0   0   0   0   0   0	cis-1.3-Dichloropropene	l/gu	1,700	0	0	0	0	0	3
Silocathane   Ug/1   350   0   0   0   0   0   0   0   0   0	2-Chloroethylvinyl ether	ľou	1	0	0	0	0	o	. 0
Section   11   0   0   0   0   0   0   0   0	Bromoform	1/01	360	0	٥	C	0	0	D
Section   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	1,1.2,2-Tetrachioroethane	ľou.	11	0	0		0	0	. 0
10   10   10   10   10   10   10   10	Tetrachlorosthene	l/grl	8.85	o	0	0	0	٥	
nizene         µg/l         2,600         0         0           nizene         µg/l         17,000         0         0           nizene         µg/l         2,600         0         0           ng/l         29,000         0         0           ug/l         29,000         0         0           ug/l         29,000         0         0           ug/l         29,000         0         0           ug/l         200,000         0         0	Chlorobenzene	l/gu	21,000	. 0	0	0	0	0	0
17,000	1,4-Dichkrobenzene	l/gu	2,600	O	0	0	0	. 0	0
nzene ugi 17,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Эелгепе	l/gri	ŗ	O	0	0	0	0	0
2,600 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,2-Dichkrotenzene	ĝ	17,000	o	0	0	0	0	0
1991 29,000 C 0 0 1 1991 1991 0 0 0 0 0	1,3-Dichfordbenzene	igo	2,630	٥	٥	0	٥	. 0 .	0
1991 200,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Ethylbenzene	į,	29,000	O	0	Φ	0	0	0
Total XVIBNes	Toluene	ľ <b>g</b> ť	200,002	0	0	0	٥	0	. 0
The state of the s	Total Xylenes	l'agu	-	0	0	0	0	¢	0

#### Playa Vista Water Quality Sampling Dry Weather - Ballona Channel - Saftwater Portion Summary of 1992 Chambers Group

			1993 Chambers	1993 Chambers	1993 Chambers	1993 Chambera	1993 Chambera	1993 Chambers
		CTR Chronic	Chambers Orp.	Chambers Grp,	Chambers Grp.	Chambers Grp.	Chambers Grp.	Chambera Grp.
Parameters	Cnits	SW Criteria	BC Footbrdg	BC 2nd Culv.	in Wetlands	BC Footbrdg	BC 2nd Cuty.	in Wetlands
			4	র	8	. ₹	*	58
			10/24/92	10/24/92	10/24/92	11/7/92	11/7/92	11/7/92
Wetals			THE REAL PROPERTY.					
Dissolved Arsenic	_		٥	0	ņ	o	3	c
Dissolved Cadmium	ō	6.3	٥	0	O	٥	0	c
Dissolved Chromitan <sup>e</sup>	Į,	85	7	0	0	4	٥	4
Dissolved Capper	Ē	3.1	. 61	. 01	0	٥	0	C
Dissolved Iron	97	1	388	430	1470	c	110	c
Dissolved Lead	ļģ	- K	D	0	0	0	0	0
Dissolved Manganese	jon.	-	120	20	50	CZ	9	c
Dissolved Mercury	700	-	D	٥	0	0	3	c
Dissolved Nickel	701	8.2	0	0	0	0	0	c
Dissolved Zing	J/6ri	83	8	40	99	50	96	, C6
Pesticides and PCBs*								
Aldrin	l/diri	9	0	٥	0	C	o	C
alpha-8HC	hon	0.013	0	0	0	٥	o	c
beta-BHC	l/gu	0.C46	0	0	0	٥	٥	0
Lindane	l/Ert	0.063	0	0	0	٥	0	0
Chiordane	l/gų	0.004	0	0	0	٥	0	c
Dieldrin	l/Crl	6100.0	0	0	0	0	0	٥
Endrin	l/cn	0.0023	0	0	0	•	0	0
Toxaphene	1/6/1	C.0002	0	0	٥		o	0
Heptachlor	1/61	0.0038	٥	0	0	•	0	0
Heptachlor Epoxide	1/6/1	0.0036	0	0	٥	0	0	0
O,P*.DDT	1/61	ı	. 0	0	0	0	0	0
P,P'-DDT	1/6/1	100.0	0	0	Ç	0	0	٥
O,P-DDD	1/6d	ı	O	0	O	0	0	0
P,P-DDD	1/6/1	2,00084	a	0	o	0	0	0
P.PDDE	1/6rl	69000°C	Q	0	U	•	0	0
Total Pesticides	l/6ri	1	c	0	S	0	0	0
PCB-1018	l/6rl	50.03	. 0	9	0	•	0	0
PCB-1221	1/Br/	0.03	0	0	O	o	0	0
PCB-1232	hou .	0.03	0	0	0	0	0	0
PCB-1242	₩6ri	0.03	٥	J	5	o	0	o
PCB-1249	yôri -	0.03	C	U	0		D	0
PCB-1254	Mgu	60.03	o	0	0	٥	0	0
PCB-1260	l/gri	80:0	0	o	0	0	0	0
Total Chiorinated Hydrocarbons								
Defected	μg√	ı	0	O	0	0	0	0

1989 Chambers - 1993, March. Chembers Group, Inc. Comparison of the Re-establishment of Tidal Flow in the Ballona Welfands Through the Baltona Chambel.
Finel CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality
Standards, Establishment of Numeric Criteria for Priority Toxic Polluteris for the State of Cellfornia.

0 - Not Detected
NA - Not Analyzed
ND - Not Detected
Incicates exceeds any of the listed criteria or guidance values.

\*The Chambers 1993 Report does not indicate whether the metals values reported are dissolved or total. Here they are assumed to represent dissolved metals concentrations.

<sup>6</sup> Value for hexavatent chromium was used for chromium

"CTR criteria are from human health organisms only criteria, except for PCBs, Aldrin, Chlordene, Toxaphene, Heptachlor, and P.P-DDT.

CTR Criteria is from the acute sattwater criteria.

# Summary of 1992 Playe Vista Water Quality Sampling Dry Weather - Ballons Channel - Saltwater Portlon Chambers Group

		OTR Dreft	908	800		Dry Weather	<b>19</b> .		<u></u>
Parameters	2	SW Criteria	Objectives	Chranic		Movimies	Page	1	į
<b>General</b>			Same and the same of the same	2000 W					
Oil and Grease	νem	_	1	1	7		19.17	/ 8	9
Magnesium	Įδω		1	1	448	1350	900	6 /	8
Potassium	υδω		1	1	177	537	320	18	9
Bicarbonate	րծա	_	ı		153	226	181	6 /	8
Carbonale	_ nam		_	ı	QN	QN	άN	/ 0	8
Chloride	ĮБш	1	1	j	7460	17800	12627	/9	
Suffate	V6m	1	1	-	1130	2520	1722	19	8
Total Phosphorus	μ6ω i		-		QN	0.53	0.24	5 /	8
Immediate Oxygen Demand	_ l⁄gm	1	1	I	QN	Q	QN	0 /	9
000	Ибш	-	1	l	35	810	273	/ e	
Organic Nitrogen	MgM		1	1	-	5.7	65 Cs.	8	6
Total Dissolved Solids	ρœ	1	1		12000	29900	20703	9	
Voladile Solids	percent		1	,	0.24	0.52	0.36	9	۵
Fotal Organic Carbon Votatile Organics*	тол пол			1	2,4	22	6	9 /	9
Chloromethere	1/01	94	1	١	QN			0	9
Bromomethane	l'gu			1	QN	Q	QN	0	2
Dichlorodilluoremethene	l/gu		1	ı	Q	QN	QN	7 0	9
Vinyl Chloride	<u> </u> ,6п	525	36	1	ĠΝ	ON	QV	/ 0	9
Chloroethane	ľщ		1	4	QN	Q.	QN	۰,	9
Methylene chloride	l/gu	1630	-	_	Q	R	Q₹	0	9
Trichloroflucromenthane	ľ,či	1	1	I	2	9	æ	0	
1,1-Dichloroethene	,an	3.2	7100	-	Q	2	Q <del>V</del>	0	
1,1-D:chloroethane	Į,di		4	_	QN	2	g	0	
trans-1,2-Dichloroethene	νoπ	140030	ł	1	S	2	ş	0	
Chloreform	Mon	470	130	1	g	2	Ş	Ô	
1,2-Dichloroethane	Jon,	88	130	1	2	9	Ş	0	<b>6</b>
1,1,1,1 idniordethane	Ž	1	240000	1	Q	2	Q (	0	٥
Growdichleromethese	i i	4.2	80	Ė	22	2 2	2 2	3 0	
1.2-Dichloropropane	(A)	8	í	1	2 2	2 5	Ş		
trans-1,3-Dichloropropene	Jon.	17:30	9	1	£	2	Ş		9
Trichtoroethene	l/6rt	31	27	1	Q.	2	Ŷ	0	9
Dibromochloromethane	1/64	34	1	.1	ZDN .	QN	QΝ	/ 0	6
1,1,2-Trichloroethane	1/6/1	7,5	43000	1	Q	Q	QΝ	7 0	9
cis-1.3-Dichloropropane	J/61	1700	9.9	1	ą	ę	Q.	· 0	8
2-Chicroethywiny: wher	1/6:1	1	-	+	Q	Q	£	0	٥
Бготогот	1,84	360		_	QN	Q	£	0	ψ
1,1,2,2-Tetrechloroethane	1/6/1	<del>+</del>	1200	ı	Q.	Q	문	•	٥
letrachlorgethene	1/6/1	28.85	82 1	i	QN I	2	2	0	١
Chloropenzane	1,611	27000	570	1	Q.	9	2	0	
1,4-Uichiorobenzene	1/6/1	2603	Br	1	2	2	9	0	6
Benzane	1/6/1	1.2	5,9	1	2	Q	2	0	<u>_</u>
1,2-Dichlorobenzene	H9/1	17000	1	-	Q	Q	Đ	0	8
1,3-Dighlorobenzene	ρδη ,	092	1	1	QN.	⊋!	2	0	9
Ethylbenzene	1,61	29000	4130	}	2	2	2	0	g .
euano:	ng.	200002	85000	!	Q.	QN	2	0	<sub>s</sub>
lotal xylenes	292	I	1	I	2	Q.	2	0	80

### Plays Vista Wider Quality Sampling Dry Weather - Ballona Channel - Saltwater Portion Chambers Group Summary of 1992

Parkmeters	Uniles	CTR Draft SW Criteria	COP Objectives	COP Chronic Toxicily		Dry Weather	7 <b>.</b>	
				,	Minimum		Mean	Hita / Total
Metals*			The second secon			State Sales of the second second		
Dissolved Arsenic	l/grl	88	32	19	QN	QN	QN.	9/0
Dissolved Cadmium	μδπ 	8.3	*7	æ	S.	S	9	9/0
Dissolved Chromium	μöd	09	B	ı	S	4	2	3 / 6
Dissolved Copper	V6n	- m	7.	'n	S	13	3.8	1 / 8
Dissolved Iran	νδή	ı	ı		QN.	1470	482	4 / 8
Dissolved Lead	μôπ	8.1	В	22	S	Q	2	9/0
Dissolved Manganese	μôπ		1	ı	2	120	42	8 / 5
Dissolved Mercury	/6ri	ı	0.16		S	Q	9	9/0
Dissolved Nickel	νδπ	8.2	20	84	QV	Q	ġ	9 / 9
Dissolved Zinc	γôπ	181	8	15	20	86	53	8 / 9
Pesticides and PCBs								
Aldrin	l/gH	9	0.000022	!	QN	QN	ΩN	9 / 0
alphe-BHC	l/6π	0.013	1	1	QN	Q	9	9 / 0
beta-8HC	l/gri	0.048	1	1	QN	QN	Q	9 / 0
Findane	l <sub>igh</sub>	0.063		ı	Q	Q	2	9 / 0
Chlordane	μαγ	90004	0.000023		Q	QN	Q	9 / 0
Dieldrin	γöri	0.0019	0.00004	-	Ş	Q	Q.	9 / 0
Endrin	1,5rl	C.0023	0.004	1	QZ	Q	2	9 / 0
Toxaphene	LDd.	0.0002	0.00021	_	QN	Q	9	8 / 0
Heptachtor	ι⁄ori ′	0.0036	2/000:0	_	QN	QN	Q	9 / 0
Heptachtor Epoxide	ρöd	0.0036			QV	QN	QV	9/0
#00-4'0	hgri	1	0.00017	1	S	Q	Q	9 / 0
P.PDDT	μđη	1000	21000.0	-	QN	QN	ġ	8 / 0
0,P-000	(Bri		-		QN	QN	9	8 / 0
P,P'-DDD	/ord	0.00084	_	_	QN	Qν	S	0 / 8
P,P'-DDE	1/24	0.00059		1	Q.V	Q.	2	9/0
Total Pesticides	),Bri				Q٧	Q	S	9 / 0
PCB-1018	)ac	60.0	6100000	1	Qν	Q	9	9 / 0
PCB-1221	ľoď	0.03	0.000019		GX.	QN	2	9 / 0
PCB-1232	l/Bri	0.03	0.000019		S	GN.	Ð	8 / 0
PCB-1242	l/gr	0.03	0.000019	ŧ	ON	QN	Q	9/0
PCB-1249	/Bri	0.03	0.000019	1	S	QN	ON	9 / 0
PCB-1254	l/gri	0.03	610000°C		ON	QN	9	9 / 0
PCB-1260	ľgi	0.03	0.0000019		ĠN	QN	QX	9/0
Total Chlorinated Hydrocarbons	_							
Detected	'Jon'		_	-	2	£	o Z	9 / 0

1993 Chambers • 1993, March. Chambers Group, Inc. Comparison of the Re-establishment of Tidal

Flow in the Ballona Wetlands Through the Bationa Channel or Through the Marina Dat Rey Entrance Channel. Final CTR SW Critaria × 2000, May 18. Federat Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Priority Toxic Pollutents for the State of California.

NA - Not Analyzed
ND - Not Defected
Indicates exceeds any of the isted offerla or guidance values.

> The Chambers 1999 Report does not indicate whether the meta's values reported are dissolved or total. Here they are assumed to represent dissolved metals concentrations.

\*Value for hexavalent chromium was used for chromium

\*CTR criteria are from human heath organisms only criteria, except for PCBs, Aldrin, Chiordane, Toxaphene, Heptachlor, and P.P-DDT. \*CTR Oriteria is from the scute satiwater orteria.

### Summary of 1982 Playa Vista Water Quality Sampling Dry Waether - Santa Monics Bay Chambers Group

Parameters	Linke	CTR Chronic SW Criteria	COP	COP	1993 Chambers Chambers Grp. BC Mouth		Dry Weather		
		•		August .	11/7/92	Minimum	Maximum	Mean	Hits / Total
General								ì	
Oil and Grease	mc.	I	25	_	8	9	8	8	1 / 1
Magnesium	ПÇI	1	1	I	942	942	942	942	17.1
Potassium	loE.	I	I	1	475	475	475	475	1/1
Bicarbonate	lgm.	f	1	1	188	183	188	158	1/1
Carbonate	իցա				0	QN	ON	QN	1 / 0
Chloride	Su .	1	ı	1	15100	18,100	16,100	16.100	
Sulleta	Lom.	ı	H	!	1850	1.850	1 850	1.850	-
Total Phosphorus	lg E	1	_		0.17	71.0	0.17	0.17	- / -
Immediate Oxygen Demand	l/Su			ŧ	0	2	9	2	0 / 1
000	μcη	J	1		175	175	176	175	-
Crganic Nitrogen	m Pag	ı	•	ı	1.2	1.2	- 2	1.2	-
Total Dissolved Solids	/6E	1		1	24900	24.900	24.900	24.900	-
Volatile Scilics	percent	š	1		0.44	40	0.44	4	- / -
Total Organic Carbon	/6E	1		1		3	3	ø	- / -
Volațiie Organica			A 10 PER 1						
Chicromethans	γδď	ı	1	1		Ð	Ð	2	0 / 1
Bromomethane	101	***	1	1	P	오	9	2	- / 0
Dichlorodifluoromethane	161	1	1	1	0	ð	Q	Ð	0 / 1
Vinyl Chloride	16d	525	35	ŀ	0	2	g	Ð	0 / 1
Chlcroethane	port.	1	,		o	9	9	QV	0 / 1
Methylene Chloride	pad .	1600			•	Ş	Q	S	0 / 1
Trichlorofluoromenthane	l/grt		_	1	•	Q	QN.	Ş	1 / 0
i, t-Dichloroethene	րեր	_	7,100	i	٥	ş	ą	₽	0 / 1
t, t-Dichloroethane	1 <sub>0</sub> 01	9	ł	ļ	0	æ	2	S	- / 0
trans-1,2-Dichloroethene	hgri	1		_	0	₽	2	Q	0 / 1
Chloroform	l/grl	470	130	I	0	ş	Q	QN	0 / 1
1,2-Dichloroethane	μgη.	86	130	1	0	2	£	2	0 / 1
1,1,1-Trichloroemana	рðц	1	540,000	1	0	QX	Q	QN	0 / 1
Carbon Tetrachloride	μαn	0.25	0.9		0	QN	QN	۵	1 / 0
Bromodichloromethane	μα <sub>1</sub>	1		1	0	QN .	QN	QN	0 / 1
1,2-Dichloropropane	нал	ı	1	ı	0	QN	QN	ON	0 / 1
trans-1,3-Dichloropropene	νon	ı	9.9	ı	0	QN	QN .	ND	0.7.1
Trichloroethene	рбл	-	27	1	٥	Ċ	QN	QN	0 / 1
Dibromochic comethane	PG"	1	1.	I	ŷ	QN.	ΩN	QN	0 / 1
1,1.2-Trichlorpethane	ľgri	42	43,000	1	U	ON	GN	QN	0 / 1
cis-1.3-Dichtcropropena	VSII	ı	8.9	1	O	ON	dN	QN.	1 / 0
2-Chiomethylylmyl ether	уби	1:	I	I	Q	QZ	QN	ΔN	0.7.1
Bromoform	l'Sh	390	1	t	D	QN	S	DN	0/1
1,1.2,2-Tetrachloroethane	្រីព	11	1,200	ı	O	Š.	QN	ND	6 / 4
Tetrachlorgethene	Lgu.	3.85	66	ı	0	Q	QN	ND	6/1
Chlorobenzene	l/ou	989	570		0	ND	QN	QN	1 / 0
1,3-Dichlorobenzene	[à	2600	ı	ļ	٥	NO	2	QN	0 / 1
: 2-Dichlorobenzene	l'œr!	17000	-	I	O	ON	ΩN	ND	1 / 0
Велделе	l/g/l	71	5.8	1	o	Q	QΝ	ON	1 0 / 1
1,4-Dichlorobenzene	/gr	2600	18	I	0	ND	QN	Q	0 / 1
Ethyloenzene	Š	29000	4.100	ı	0	ND	QN	Q	1 / 0
Tcluene	l/orl	200000	85.000	1	0	ND	QN	Q	1 / 0

#### Summary of 1992 Plays Vista Water Quality Sampling Dry Weather - Santa Monics Bay Chambers Group

		CTR Chronic	dos	g	1993 Chambers Chambers Grp.		Dry Weather		
Parametare	# 5	SW Criteria	Objectives	Chranic Toxicity	BC Mouth 0A				
					11/7/92	Minimum	Maximum	Mean	Hite / Total
Total Xylenes	l/grl	ı	_	į	0	٩	9	ð	1 / 0
Wetals ho								年 10年 日の公	
Dissolved Arsenic	ľūri .	36	æ	45		dN	2	Q۷	0 / 1
Dissolved Cadmium	lou	9.3	5	8	0	Š	2	Š	1 / 0
Dissolved Chromium *	l/gri	20	8	81	٥	Ŝ	9	Ş	0 / 1
Dissolved Copper	l/Bri	3.1	12	ьtī	0	Ş	2	2	0 / 1
Dissolved Iron	l'ou I	ı	1	ī	50	909	50	55	1 / 1
Dissolved Lead	l <sub>Q</sub> q,	9.1	8	55	0	QN	2	2	٠ / ٥
Dissolved Manganese	l <sub>ugu</sub>	1	1	ı	2	2	c <sub>1</sub>	~	- / -
Dissolved Mercury	l/gul	I	0.18	0.4	0	Ş	Q	ā	0 / 1
Dissoved Nickel	l/gu ]	8.2	02	48	10,	₽	5	10	1 / 4
Dissolved Zinc	l/gu		26	51	.09	80	09	90	1 / 1
Pesticides and PCBs*								ŕ.	
Akin*	reu.	1,3	0.000022	ı	0	ΔN	2	QN	0 / 1
alpha-BHC	ığı	0.013	1	1	q	QN.	Š	문	0 / 1
beta-BHC	Į/Bri	0.046	_	1	Ö	QN	2	Ş	٥ / ١
Undana	ğ	***	_		Ó	۵N	Š	2	0 / 1
Chlordage	ğ	0.004	0.000023	1	0	ND	QN	Ĉ	1 / 0
Dieldrin	ρğ	0.0019	0.00004		0	QN	ND	QN	: / 0
Endrin	lgu	0.0023	0.004	ļ	0	QN	QV	CN	1 / 0
Toxapherie	lgi	0.0002		1	0	ON	QV	S	- / 1
Heptachior	lgu	0.0036	0,00021	1	c	QN	Q	QN	0 / 1
Heptachlor Epoxide	Гgл	0.0036	0.00072	1	C	QN	QN	QN	0 / 1
O.P'-DDT	Ιδη	I	0.00017	1	0	QN .	ND.	QN	0 / 1
P,P-00T	Į,	500.0	5,00017	ı		Q	Ŋ	ND	1 / 6
0,P-000	l⁄gt	1	I	j		QN	מ	Ş	0 / 1
P.P-000	lo.	0 20084	ļ	l	9	ND	ON	QN	0 / 1
P.P.DDE	l/gr.	0.00069	1	ı	0	Q	92	QN	0 / 1
Total Pesticides	/6ri	1	1	I	0	ΩN	QN	ND	0/1
PCB-1016	νбп	0.03	0.000019	ı	0	QN .	QN	ΔN	0 / 1
PCB-1221	ğ	0.03	0.000019	-	0	Š	S	QN	0/1
PC8-1232	P.C.	0.03	0.000019	1	. 0	QN.	QN	ON	0 / 1
PCB-1242	P.	0.03	0.000019		0	ΩN	Q	QN	0 / 1
PCB-1248	Юſ	0.03	0.000019		0	QN	ON.	ON.	0 / 1
PC8-1254	ю	0.03	0.000019	_	0	ON	ON	QN	0 / 1
PCB-1260	М	0.03	0.000019		0	ON	ON	ΩN	0 / 1
Total Chlorinated Hydrocarbons Detected	νeπ	1	1	i	٥	Q	CN	ND	0 / 1

0 - Not Detected NA - Not Analyzad ND - Not Detected 1993 Chambers - 1993. March. Chambers Group, Inc. Comparison of the Re-establishment of Tidal Flow in the Ballona Wetlands Through the Ballona Chamber or Through the Marina Del Rey Entrance Chambel.

COP Objectives = 1997. Celifornia State Water Resources Control Board. California Ocean Pian. Table 9 Water Quality Objectives. Daily Maximums for aquatic life and 80-day Avarages for human health.

COP Chronic Toxicity = 1997. California State Water Resources Control Board. California Ocean Plan. Table D Conservative Estimates of Chronic Toxicity.

\* CTR criteria are from human hastih organisms only criteria, axcept for PCBs, Aldrin, Chlordane, Toxaphene, Heptachter, and P.P.DDT.

<sup>b</sup> The Chambers 1993 Report does not indicate whether the matais values reported are dissolved or foral. Here they are assumed to represent dissolved metals concentrations.

<sup>o</sup> Values in the Cairfornia Ocean Plan did not specify whether objectives were for total or dissolved metals. Dissolved metals was assumed.

<sup>4</sup>Values for hexavalent chromium was used for chromium \*CTR Ortein is from the acute satiwater chiera.

Indicates exceeds any of the listed criteria or guidance values.

### Summary of 1992 Plays Vista Water Quality Sampling Wet Weather - Ballons Channel - Saltwater Portion Chambers Group

		CTR Acute	1993 Chambers Chambers Grp.		Wet Weather						
Parameters	Units	SW Criteria	BC Footbrdg 1A	BC 2nd Culv.	BC Yellow Pipe SA	BC 1st Culv 6A	In Wetlands 2B				
	80088888		12/5/92	12/5/92	12/5/92	12/5/92	12/5/92	Minimum	Maximum		Hits / Total
Oland Grease	l'ou	1		15	10 to	9	0		46	6	The second second
Magreshim	Spin Budy	ļ	978	978	086	302	200		26	36.4	, ,
Potasslum	SE SE	1	96	96	96	109	272	8	272	134	٠-
Bicarconate	i'gm		140	153	159	156	171	04-	121	156	╬╌
Carbonale	"ōu		0	0	0	0	Ç	£	Ş	9	-
Chloride	mg)	-	4900	4800	5980	11300	12800	4,800	12,800	7,896	2 - 2
Sultate	ូចម	į	920	200	810	980	1620	200	1,620	828	·
Total Phosphorus	.em	-	98:0	0.55	0.59	0,49	D.18	0.18	0.83	5.0	[
immediate Oxygen Demand	എം		1.2	1.2	1.2	1,2	0	⊋	1.2	96.0	<u>-</u>
COD	:i6m	_	105	115	110	140	170	58	5	128	-
Organic Nitrogen	ľδш	1	2.4	4.69	3.4	*	8.	0.	4	6	-
Total Dissolved Solids	Įð.		8700	8300	0068	9100	22500	8,300	22,500	11,500	·-
Volatile Solids	3	_	0.17	0.16	0.18	0.21	0.41	0.16	0,41	0.23	-
Total Organic Caroon	rao,		81	21	20	50		sa	21	17.2	8 / 6
vocs •							Z				
Chioromethane	194	1	0	Q	0	0	D	ON.	2	g	0 / 5
Bromomethane	100		D.	0	0	٥	0	ON	ND ON	QN	6 / 9
Dichtoroditionomethane	₽67 	-	0	0	0	â	0	2	ND.	QN	0 / 5
Viny Offerde	(S)	525	0	0	0	٥	Ó	2	2	QN	0 / 5
Cloroethane	) <sub>6</sub> 6	34	D	J	0	ď	û	QN	2	QV	9 / 2
Methylene Chroride	,on	1,800	0	ن	0	0	0	QN	2	Q	0 / 5
I denioratuoromenthane	,5n	i	0	J	0	c	0	9	Ñ	Q.	6/0
1,1-Dichicroethene	PG.	1	0	0	0	0	o	₽	ş	QN	6 / 5
1,1-Uichtcroathana	Ž	-	0	0	0	٥	6	2	2	2	9/0
naris-i-comproperation	Š.		0	0	0	0	0	Z	2	ĝ	e / o
Chipropria	31	470	0	0	٥	0	٥	2	₽	ဋ	6/0
1,2-Jankorosmane	3	8	0	٥	٥	0	0	Q.	2	Q.	0 / 5
Contract Translation	3	,	3		0	0	0	CN	2	2	0 / 5
Company (Marchage)	ò	4.4	٥	0	0	0	0	2	2	Ş	C / S
D. Dichercomorpe	2 5	ı		5		0	0 (	CQ (	2	2	0 / 0
trace-1 3-Dishlorocopes	2 2	3				3	2	2	2 5	2	c / p
Tochicrathene		,		9				2 9	2	2	3 / 0
Dibroporloromedhana	, ice				c			2	2 5	Ž	
1,1,2-Trichlorcethane	100	77	C			0		2 9	2 5	2 5	2 0
cis-1,3-Dichlaropropene	ě	1	0	0	0	, 0	0	2	2 2	Ş	) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
2-Chlorcethylvinyl ather	l/gr	}	0	. 0	0	0	0	ş	2	Ş	0 / 5
Вготобогт	1,81	360	0	0	0	ů	0	QN	Q	Ş	3 / 0
1,1,2,2-Tetrach/oroethane	ğ	=	0	0	0	. 0	0	GN	Q	Q	0 / 5
leitachio dethene	en l	11	0	0	0	0	0	Q	٩	Q	5 / 0
1,3-Uichlarobenzene	ă.	2,500	0	0	0	٥	0	Ð	ş	Q	0 / 5
1,c-Dictional and a series	6	0007	١	ò	0	9	0	ş	Ş	2	0 / 5
adazuaci		1,00	0	C .	0	0	0	Q	ş	Q	0 / 5
Cricropenzene	200	003,12	Ò	ô	0	0	O	₽	ş	Q	0 / 5
The Distriction of the Court	S. F	2,000		0	٥١		0	Q :	₽	2	57
Tologo	V .	000'62		0	٥	0	0	Ę	₽	2	D / 5
Total Volence	ne i	MANAGO		0	٥	0	0	Q.	9	Z	0 / 5
Marate A	in the second	I STATE OF THE PARTY OF THE PAR	n		O	0	0	QN	- ON	9	0 / 5
Dissolved Arsenio	ÇDI.	69							-		
Dissolved Cadmium	Von	2.7	Ô	0	, 0		Ç	2 2	2 2	2 2	6 / 6
Dissolved Chromiten *	nay	1100	ت		ķ	, .	,	2 5	2 9	2 2	6 / 6
			,	,	,	>	, , , ,	AL.	5	5	0

### Summary of 1992 Playa Vista Water Quality Sampling Ver Westher - Baltons Channel - Saturator Portion Chambers Group

			1993 Chambers	1893 Chambers	1993 Chambers	1993 Chambers	1993 Chambers				
Partmeters	5 5 5	SW Criteria	Chambers Grp. 3C Footbrdg	Chambers Grp. BC 2nd Culv.	Chambers Grp. BC Yellow Pipe	Chambers Grp. BC 1st Cully	Chambers Grp. In Wetlands		Wet Weather		
				*3	₹9	6.4	23.8				
			12/5/92	12/5/93	12/5/92	12/5/92	12/5/92	Minimum	Maximum	Mean	Hits / Total
Dissolved Copper	<b>₽</b> 61	4.8	13 *	10.	13 •	12.	0	₽	13	80.00	4 / 5
Dissolved Iron	yg/i	_	980	089	292	790	190	190	980	3	5 / 5
Ossolved Lead	100	213	3	0	·	٥	0	ş	2	2	6 / 5
Olssolved Manganese	190	1	130	130	120	130	50	20	130	8	100
Obsolved Mercury	1,00	-	0	Ú	٥	0	0	9	£	2	2 / 3
Olssalved Nickel	1,00	7.4	٥	υ		0	0	9	2	2	0 / 5
Dissolved Zinc	1/61	. 08	. 8	100	• 001	1001	64	4	g <u>r</u>	\$	5 / 5
Pesticides and PCBs *							100 mg / 100		WANTED STATES	A Later Section 1	NAME AND POST OF THE PARTY OF T
Aldrin	1,61	1,3	٥	Q	0	0	0	ON	QN	ON ON	5 / 0
alpha-BHC	µ9/1	0.013	٥	0	0	٥	0	S	2	9	0 / 5
tera-BHC	1/61	0.046	0	0	0	٥	0	S	g	£	9 / 0
Lindane	ľů.	0.316	0	D	0	c	0	S	ę	£	6 / 0
Chlordane	· µg/i	0.09	0	0	0	6	0	2	2	g	0 / 5
Dieldrin	199	0.71	0	o	0	c	0	S	2	ę	0 / 5
Endrin	ön	0.337	0	0	0	c	a	2	2	Ŷ	0 / 5
Toxaphene	-61	0.2:	0	0	0	0	O	Ω	2	Ş	5 / 0
Heptachica	Į.	0.053	0	0	0	C	0	2	S	£	9 / 0
Heptachter Epoxide	ĮĐ	0.053	0	0	٥	0	0	QV	S	£	8 / 0
O,P -CDT	<u>5</u>	Ì	0	0	0	٥	c	2	2	₽	u . o
P.P.DOT	3	0.13	٥	O	0	0	C	ON .	CV	Ş	3 / 0
O,P:500	,ASA	1	O	0	٥	0	0	ON	2	Ş	3 / 0
P 04-003	ğ	0.00084	6	0	0	ð	C	ON	QN CN	Z	3 / 0
300-6 d	Jōn	0.00069	c	0	0	0	0	ON	Q	Ş	3 / 0
Total Pesticides	ğ	1	C	۵	C	0	0	QN	Q	S	9/0
PCB-1016	ğ	i	0	C	0	0	0	Q	Q	ON	9/0
PCB-1221	ρī	,	0	c	0	0	0	QN	9	Ŷ	9 / 0
PCB-1232	<u>1</u> 61	1	0	C	. 0	0	0	QN	ON:	2	9 / 0
PCB-1242	Ì	1	0	0	0	0	0	QV	S	2	9 / 0
PCB-1248	Į,	-	0	0	0	0	0	QV	ş	2	5/0
PCB-1254	ğ	1	٥	0	0	0	0	₽	ę	Q	0 / 5
PCE-1260	ğ	I	0	0	0	. 0	0	9	ę	£	0 / 5
I otal Chlorinated Hydrocarbons Detected	<b>5</b>	1			o		<	9	9	:	
			, , , , , , , , , , , , , , , , , , ,	,	Α.	2		ND.	O.	D.Y.	מ

C - Not Detected NA - Not Analyzed ND - Not Detected

1993 Chambers - 1993, March. Chambers Group, Inc. Comparison of the Re-establishment of Tidal Flow in the Baltona Wellands Through the Baltona Channek of Through the Marina Del Rey

Entrance Channel.

Final CTR SW Crishts = 2003, May 13. Federal Register Volume 65, No. 67, 40 CFR Part 131. Water Quality Standards, Establishment of Numeric Criteria for Priority Toxic Pollutaris for the Stats of California. CTR official are from human health organisms only criteria, except for PCBs, Aldrin, Chlordane, Toxaphene,

Heptachlor, and P.P.-DOT.

<sup>&</sup>lt;sup>b</sup> The Chambers 1993 Report does not indicate whether the metals values reported are dissolved or total. Here they are assumed to represent dissolved metals concentrations.

Pvalue for hexavatent ornomium was used for chromium.

OTH Crisara is from the acute saftwater orderta.

Indicates exceeds any of the fisted orderta or guidance values.

Table A-3,4

Summary of 1991-1992
Playa Vista Sediment Quality Sampling
Ballons Channel - Sattwater Portion
Chambers Group

			1993 Chambers	1993 Chambers	4 BOS Chambors	1000					
Parameter	Units	NOAA	Soule, et. al. 12	Chambers Grp.	Chambers Grp.	Chambers Grp.	Chambers Grp.		ัด	Settweter	
		Marine Sediment	7.0	å	Flap Gates	Flat Cates	Culver/Lincoln				
		1988		1/17/92	1/17/92	1/17/00	10/24/05	1,11			-
General Volatite Solids	3			S					ratulitan Tabulitan	Mean	Hite / Total
100	, university		2 2	4.2B	3.90	8.03	11.2	3.9	11.2	7.11	-
Immediate Oxygen Demand	mayko		AN AN	1	23°	3.63	4.48	23.	4.48	2.84	4/4
Chemical Oxygen Demand	⊞o⁄ko		42	1	158	88	96.0	84	158	108	4 / 4
O and Grease	T.OKO		2000	1	00000	27800	55800	27,800	56,800	48,750	414
Tota: Phosphorus	marka		AN.	t	0350	27800	1100	1,18	27,830	7,346	5/6
Organic Nitrogen	E G	,	42		6 000	1.85	99.9	1.5	6.68	3.79	2/4
Hydrogen Sulfide	DAYGE.	,	A.V	1	300	1350	1500	913	9,190	3 163	4/4
Tributyl Tin	ПO'KG			1	7.5	0.75	1.79	0.85	1,79	1.10	4/4
Total Alkalinity	E O'KG	ı	42	1	ZI 0	0.61	0.83	Ŷ	0.63	0.33	5/5
Chloride	οχ/S	,	ďΖ	7180	0.150	30163	00012	6.920	25,100	15.980	4/4
Calcium	ağı		AN	42	76.4 2	2004	12730	7,183	14,500	10,983	4/4
Magnesium	mg/kg	,	AN AN	4830	0294	42	9700	9,760	9,700	007.6	1/1
Potassium	CX OF		AM	2610	0.000	14300	211	211	14,300	6,003	4 / 4
Sulfate	morka		12	01.5.1	2000	0430	25	2,540	8.460	4,805	4 / 4
VOCs	1		100000	71.7	1020	150	2100	1,020	2.150	1,670	4 / 4
Chloromethane	pg/kg	1	W. Xulian v	C							A STREET, ST.
Bromomethane	ng/kg		ž			,			2	£	7 / 0
Dichlorodifluoremethane	DV/Srt		¥X	, -		3	0	2	2	2	2/4
Vinyi Okloride	0)/64 M	,	42				0	2	2	ĝ	0 / 4
Clorosthane	cy/6ri		₩.	,			0	2	ĝ	Q	0/4
Methy ene Chlor.de	D/A		42	>		0	٦	2	9	Ď.	0 / 4
Trichlorof-uoromenthane	-ug/kg		¥.√	) c			0	Q.	⊋	QN	0/4
1, 1-Dichloroethene	nayka	1	¥Z	, ,	,		3	Q	2	2	0/4
1,1-Dichloroethane	Daved	1	ΨN		>	2	0	2	ð	ΩN	0/4
trens-1,2-Dichtoraethene	ug/kg	1	AN.			3 6	0 6	2	2	9	0 / 4
Chlaroform	pg/kg		Ϋ́	C	, -		3,	2	2	ᢓ	0/4
1,2-Dichloroe;hane	5 Nort		¥		, c		- (	2	9	Q.	C / 4
1, 1.1-Trichloroethane	ng/kg	1	Ϋ́					2	2	<del>Q</del>	0 / 4
Carbon Tetrachioride	ng/kg	1	¥	, ,			C	၇	2	Q.	0 / 4
Bromodichloromethane	pg/kg	1	ž	0	,		0	2	2	₽	0 / 4
1,2-Dichlotopropane	pg/kg	1	ΑN	0		,		2	2	ĝ	4 / 0
Irans+1,3-Dichioropropane	DQ/KG	-	ΝÀ	0	0	, -		2 2	2	2	7 0
Trichtoroathene	су/оп	41	A'A	0	0	-			2	2 5	4 / 6
Occumochicomethane	og/kg		ΝA	0	0	, ,		2 5	2 4	Ç,	4 / 0
1, 1,2 : richicroethane	прука	1	NA	0	0	, 0	, .	2 5	2 2	2 5	
de-1,3-Uchioropeae	<u>Ş</u>		NA	٥	٥			2 5	2 5		4
Homotomy Homotomy	5y/6r		Ϋ́	Ö	0	v	0	2	Ę	2/2	* 10
1.1.2.9-Tetrachbosothere	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	Y.	٥	0	D	٥	2	2	Ş	
Tetrachlocothane	7	;	Ž	٥	٥	0	٥	Ð	2	£	7 0
Chlorobenzena	2 20 21	λά	3	0	٥	0	0	QΩ	S	Ş	7
1.3-Dieherotenzene	5 Q		¥.	6	c	0	0	NO.	2	2	7 0
1.2-Dichlorobenzena	2 5		Ž	3	0	a	0	2	Ş	2	4 / 0
1.4-Dichlorobenzene	2 5		Ž		°	0	0	2	Q	Û	4 / 0
Велгара			Ž	0	0	0	0	S	Q.	Š	, ,
Chlorobenzene			Ž		٥	0	0	Ð	Ş	2	7 (6
1.2-Dichlorobenzane	2 5		4		0	0	0	Ş	₽	9	4
1.3-Dichlorobanzana			A.	0	٥	0	O	£	2	Q	4 6
1,4-Dichlorobenzene	oyle:		2 2	3	0	O	0	Q	ą	S	┟╴
Ethylbenzena	Ng/kg	4	4N		1	٥	٥	QN	ÓN	QN.	0 / 4
6.Jen.io_	1:9/80		ž		3.6	0 80	٥	2	Q	Q	4 / 0
Dotal Xylenes	53/6rl	7	2	-	,,,	899		Q	963	253	3/4
				,		. 22	0	2	88	12.75	7 7 0

67/06/1025/should althritionarity (44) submitted the middle of the high children and have considered to the sixtee of the sixtee

#### Playa Vista Sediment Quality Sampling Ballona Channel - Saltwater Portion Summary of 1991-1992 Chambers Group

			1993 Chambers	1993 Chambers	1993 Chambers	1993 Chambers	1993 Chambers					Γ
Parameter	Sile.	SQUIRT	Soulle, et. 16.	Chambers Grp.	Chambers Grp. 2A	Chambers Grp. 28	Chambers Grp. 28		ű	Saltwater		
		Marine Sediment	0	Ped Bridge	Flap Gales	Flap Getos	Culver/Lincoln					
-		1999	001-91	1/17/92	177.00	1/17/0/2	40/04/60	Definition on	Machinist		7	1
Metals						201111	1014W34		SECTION AND ADDRESS OF THE PARTY OF THE PART	Mean Market	/ 1114	ON SE
Arsenic	mg/kg	41.6		3.5	5.67	8.95	5 13	3.49	A 05	607	7	
Cadm um	mg/kg	4.21	90'	0.93	1.58	29.67	0.45	0.65	5	200		T
Chromiten	mg/kg	160.4	20.5	24.7	22.3	45.2	34.7	20.5	45.9	200	,	T
Copper	mg/kg	108.2	25.9	36.5	88.2	42.3	31.8	25.9	42.3	2	2	Ī
Iron	сж∕сш	1	ΑN	12700	11800	54400	35100	11 B00	54 400	008.60	2	
Lead	mg/kg	112.18	161	115 *	73.7	19.5	4B.1	19.5	19,	83	7 / 2	T
Manganese	mg/kg	260	ĄN	106	112	433	211	108	607	810		T
Mercury	t⊓g/kg	969'0	0	71°C	0.16	0.08	0.18	CZ	610	,		1
Nickel	mg/kg	42.8	10.9	4.6.	13.7	30.7	2.1	901	30.7	Cat	. 4	Ī
Zinc	mg/ko	271	56	165	606	126	V + +	25.	200	200	,	
Pesticides and PCBs	2000 E	The state of the s				THE PERSON NAMED IN	THE PROPERTY OF THE PARTY OF TH	***************************************	202	641	G / C	200 Mary 200
<sup>b</sup> Aldrin	07/04			A CHIEF CONTRACTOR OF THE CONT				854) (C) (C) (C) (C) (C) (C) (C) (C) (C) (C	SACON CALAMANA			10000
aroha-BHC	0.20		2		) 		2	2	QN	ŝ	0 / 4	1
DHG-MHC	5		5			0	٥	2	ďΝ	Q	0 / 4	
0 0000	S .		¥Z.	0	٥	٥	C	2	9	2	0 / 4	
Chidane	CX/GI	0.99	₹	0	0	0	0	9	QN	Q	7 0	
Chlordana	D KG	4.79	124 "	210	170	0	. 9	Q	210	102	9 / 7	Ī
Cheigra	S S	4.3	¥¥.	0	0	0	0	£	Ş	2	0 / 4	Ī
Endrin	- Joyka	1	₹N.	0	0	3	0	ş	£	Q.	0 / 4	
Toxaphane	Paka B	I	N.A.	0	٥	0	0	2	£	SP	0	
Heptachlor	04/gr	0.3	N.A.	0	O	0	6	S	Ę	Ę		T
Heptachlor Epoxide	pgvkg	J	ďχ	0		0		Ç	22	2 2		T
O.P'-DDT	ugvikg	_	AN	0	0	ь	0	2	Q	Ş	0	Ī
P.P.DOT	ng/kg	4.77	. 8	130 1	160	0	.6	2	160	<u>.</u>	4 1 5	
0.P-000	₽9/Kg		Ϋ́	0	0	0	0	Q	2	Q	7 / 0	T
	19/kg	7.81	-1-	.6	120	o	3	2	120	82	4 / 5	
BOOTH	SW6n	374.17	8	190	150	0	13	Q.	8	72	4 / 5	
CIA) YESTICIOES	Bykd Boykd		≨	539	600	0	30	Q	600	282	3 / 4	ľ
P.CP-1016	By.Kd	188.79	3	0	O	Ó	0	Ŷ	2	£	4 / 0	
FCB-1223	ng.kg	188.79	Ä	٥	C	C	0	9	Ş	₽	0 / 4	
FCB-1232	LG'KG	188.79	Ϋ́	٥	0	0	0	2	S	2	4 / 0	
PCB-1242	ng/kg	188.79	ΑN	0	0	0	0	QV	GN C	9	7 0	Γ
PCB-1248	pg/kg	188.79	NA	0	0	0	٥	QV	Ş	Ę		T
PCB-1254	D)/Or	153.79	Ϋ́	0	0	0	0	Q	2	S	4	Ī
PCB-1280	5 System	168.79	ΨZ	0	0	0	0	9	2	Ę	4 / 0	Ī
Total Chlorinated Hydrocarbons			-							l L		T
Detected	6x/6ri	į	¥N.	623	98	-	8	Ş	S.	to		
Notes:						<u>,</u>	3	1	300	787	4	1

0 - Not Detected
NA - Not Analyzed
ND - Not Detected
ND - Not Detected
SD - Storm Drain
1993 Chambers Group, Inc. Comparison of the Re-establishment of Tidal Flow in the Ballona Wetlands Through the Ballona Chamist or Through the Marina Del Ray Entrance Chambel.
\*\*Buchman, M.F., 1998. NOAA Screening Quick Reference Tables, NOAA HAZMAT Report B9-1, Seattle, WA, Coastal

Protection and Restoration Division. National Oceanic and Atmospheric Administration, 12 pages.

\* Apparent Effects Threshold (AET) is used instead because PEL is not listed
"Note: The Chambers 1993 Raport does not indicate whether the metals values reported are dissolved or total. Here they are assumed to represent total metals concentrations.

Indicates exceeds guidance values

#### Summary of 1991-1992 Playa Vista Sediment Quality Sampling Santa Monica Bay Chambers Group

		1883 Chambers	1993 Chambers				
-	NOAA	Chambers Grp.	Soule, et. al.		Sa	Iwater	
	Marine Sediment	<b>\$</b>	-				
	PELR	Ochari	Breskwater				
\$ 100 COLUMN	+989	1/17/92	Oct-91	Minimum	Maximum	Mean	Hits / Total
ma/ka		50g	1510	200	,	W	
marka	-	£0.0			Ī	100.0	7 7 7
%		1.64	Ž	2	ı	2	1 / 1
mg/kg	***	99'0	≨	0.86	0.66	990	
тожа		Q	≨	2	Q	D.	1 / 0
шама		4100	₹	4.100	91.7	4.100	
mc/kg	1	2.10	¥	2.1	77	7.7	1
тожа	J	141	NA	177	17	177	171
mgkg		64'0	N.A.	67.0	0.79	0,79	1/1
mg/kg	1	3310	ΝA	3,310	3,310	3,310	- / 1
тид/ка	1	5350	ΑA	5,350	5,350	5,350	. / -
mg/kg	1	2120	MA	2,120	2,120	2,120	1/1
mg/kg	1	828	NA NA	696	928	828	1/1
mg/kg		790			062	280	1/1
			#	ŝ			
ng/kg		0	NA	NO.	۵N	QN	1 / 0
194'kg	-	0	ΝΑ	Q	QN	QN	0 / 1
53/6ri	1	0	ΑV	Ş	2	Ş	0/1
Z S		٥	¥.	2	2	2	0 / 1
S S S S S S S S S S S S S S S S S S S			W.	2	2	2 9	0 / 1
uo/ka			42	2 2	2 2	2 5	
pg/kg	1	٥	ΑN	2	Q	Ş	1/0
54/6rl		0	ΨN	2	ON	Ę	, ,
j pg/kg		0	NA	2	2	2	0 / 1
ug/kg		13	AA	13	13	13	-
pg/kd	1	0	NA	2	QV	2	0/1
паука		0	ΑN	QN	QN	ş	1/0
10/kg	,	٥	NA	NO	ON	QN .	0/1
19/kg	1	0	ΑŽ	D.	ND.	ON	0/1
БХС	-	0	Ϋ́	Q.	Q	Ñ	0 / 1
51.5	1 3		NA.	2	ę	2	0/1
100 Kg	*	0	ž	2	Ş	2	0 / 1
2 2			<b>5</b> 5	2 9	2	QV.	0/1
00/00			\$ 2	2 5	2 5	2 4	6/1
o3/co			V.	2 2	2 5	2 2	
μα/kg			AA	Ş	2 5	2 2	3
רמעמ	1	0	ĄN	Ş	Ş	2	
pg/kg	57	0	A.S.	£	Ę	Ş	
па/ка	1	0	NA NA	ş	2	Ş	, , 0
pg/kg	í.	0	NA	Š	QV	Ş	- / 0
₽9″kg	1	0	NA	Q	QN	ę	0 / 1
LQ.Kg	1	0	A'A	<u>Q</u>	ON	QN	1 / 0
SV-SH		0	¥	9	QN	QN	071
0,50	*	0	NA	Ð	ON	Š	0 / 1
DG/KG		٥	ΨV	9	2	Ş	0 / 1
L PSynk L	*	3	NA	Ñ	2	2	0 / 1
	1976	NOAA NOAA NOAA NOAA NOAA NOAA NOAA NOAA	NoAA NoAA NoAA Narine Sedimenti 1999 1999 1999 1999 1999 1999 1999 19	Marine Sedunent Ochen PELE 1 1909 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17/02 1/17	NOAA   Chamber Grp.   Soule, et. al.	NOAA   Chamber Grp.   Soule, et al.     Marine Soulint   Coan   Soule, et al.     1989	Marine Section   South, et. al.   Sout

#### Playa Vista Sediment Quality Sampling Summary of 1991-1992 Santa Monice Bay Chambers Group

			1993 Chambers	1993 Chambers				
		AAON	Chambers Gro.	South of al		ž	Calterator	
Parameter	Units	SOUIRT	40	-		į		
		Marine Sediment	Ocean					
		200	1	Breakwater One of				
Mereis					MINIMAN	THE PERSON NAMED IN COLUMN	Mean Wash	rits / total
Arsenic	ma/ka	41.6		2.27	1 1 50	1 50   500	1 87	000
Cadmium	and/kg	4.2:		50	7,0	30	00.0	90
Chromium	ma/kp	160.4		14.3	70	1	11.4	6)
Copper	ma/kg	108.2	5.3	13.8	2.2	8 6	0.65	2/2
Iran	move	ī	4980	c	Ş	4 OPC	2 400	07.
pëe	Ey/6±	112.18	62.8	25	52.6	84	583	6/1
Menganese	рудш	280	65.3	NA.	65.3	65.3	85.3	
Mercury	mg/kg	0.696	0.08	0	2	80.0	0,0	1 / 2
Nickel	mg/kg	42.9	4.82	8.02	8	8.02	8.47	67.
Zinc	mg/kg	271	31.2	55.3	31.2	l	43.6	113
Pesticides and PCBs					CO. CLANSING			100 mm
Adrin	La/kg	5,5		NA	GN		C 2	1 / 0
elpha-BHC	50/61		0	¥	£	Ę	CZ	
beta-8HC	₽9/kg		٥	NA.	9	2	CZ	-
Lindane	Førkg	0.99	0	AN	£	2	Ş	0 / 1
Chlordane	pg/kg	4.79	0	. 97	€	\$	23	1/2
Dialdrin	палка	4.3	0	άN	Q	Z	Q	110
Endrin	раука	-	0	ΝA	ą	2	S	0 / 1
Texaphane	₽9/kg	-	0	Ϋ́Z	9	Ź	2	C / 1
Haptachtor	uo/kg	0.3	0	Ā	S	9	2	0 / 1
Replachior Epoxide	pg/kg	1	.0	Ϋ́	ş	욧	£	0 / 1
O.P. dor	l ug/kg	1	¢	NA	Ş	Ş	ą	0 / 1
P-00T	µg/kg	4.77	0	0	Ş	ş	ş	0 / 2
0,P'-000	UQ-KQ	1.	0	¥Ν	Q	2	£	1.70
P-000	HG/kg	7.81	0	4	QN	4	2	1/2
P,P-00E	l ug/kg	374.17	0	7	9		3.5	1/2
Total Pesticides	ug/kg		0	ΝΆ	g	2	윤	0 / 1
PCB-1018	ug/kg	138,79	J	ΝA	9	9	ě	0 / 1
PCB-1221	Lig/kg	138.79	0	٧×	ş	Ş	ş	0 / 1
PCB-1232	PG/kg	188,79	ပ	ΑN	2	2	Ş	0 / 1
PCB-1242	µg/kg	t88.79	0	ΑN	2	2	2	0 / 1
PCB-1248	Бұ/бп	188.79	٥	ΨN	g	2	£	0 / 1
PCB-1254	pg/kg	188.79	0	¥	2	2	Ŷ	0 / 1
PCB-1260	ugykg	188.79	0	ΑN	2	2	2	1/0
Total Chiermated Hydrocarbons Detected	L CAPCIT		4		4	1	:	
Notes:	Ruse		,	¥	2		2	0/1

0. Not betected
NA - Not Analyzad
ND - Not Detected
NA - Not Analyzad
ND - Not Detected
SD - Some Dean
ND - Not Detected
SD - Some Dean
ND - Not Detected
SD - Some Dean
PEL - Probable Effects Level, leval above which adverse elfects are frequently expected
1993 Chambers - 1893, March. Chambers Group, Inc. Comparison of the Re-establishment of Titlet Flow in the Bellona
Wedender Finding the Seltions of Annual or Through the Annual Order or Through the Through the Annual Order or Through the Throu

metals concentrations.
Indicates exceeds guidance values

Appendix A-4 Woodward-Clyde Consultants Existing Data

### Playa Vista Water Quality Sampling Dry Weather - Baltona Channel - Saltwater Portion Summary of 1990

			1990 WCC	1990 WCC				
Paramaters	Sitte 8	CTR Chronic SW Criteria	WCC Stat. 5	S S S		, ,	Dry Weather	
			5/16-17/80	5/16-17/90	Minimum	Махітыт	Mean	Hits / Total
General								
Total Hardness	TIGE!	1	6100	6300	9,100	6,300	6,200	2/2
Total Suspended Solids*	1/6U	1	8	110	<u>8</u>	110	55	2/2
Nirale	Joe		0.07	0	Ð	200	0.0	1 / 2
Ammonia	mg/L		0	0	Q	Q	ş	0/2
TKN*	mg/L	i	Bro.	o	9	9.0	0.4	1 / 2
Orthophosphorus*	mg/L	ļ	0.13	200	0.02	0.19	0.08	2/2
Total Phosphorus	mg/L	1	90'0	970	0.03	0.16	0,10	2/2
PAHS	'Jon	I	0	0	QN	QV	욧	0/2
Oil & Grease	ug/L	l	o	0	Q	Q	Ş	0/2
Pesticides and PCBs	אלין.	ı	0	0	2	2	ş	0 / 2
VOCs			<b>经验</b>					
Abetone	7,6st	1	11	0	QN	11	5.5	1 / 2
Methylene Chloride	J/Srt	1,600	o	0	Ş	2	£	0 / 2
Other VOCs	T/6H	1	0	0	Q.	Ç2	ş	2/0
Wetals	2.10404.5							
Dissolved Arsanic	J'GH	36	2	0	aN	2	1	1 / 2
Dissolved Cadmium	Jugu	9.3	0	0	QΝ	GN	QN	210
Dissaived Chromium 4	Jugari,	20	10	8	8	10	ch	2/2
Dissolved Copper	J'gu	3.1	4 4	4.	4	4	4	2/2
Dissolved Lead	J/6ri	8,1	0	0	QΝ	DN.	오	310
Dissolved Mercury	Jugy'L	-	0	. 9	QΝ	ΝO	유	3/0
Dissaved Nickel	Light.	8.2	0	3	GN	DN.	QN	8/0
Dissolved Selenium	1,6vL	7.1	0	0	QN	DN	Q	z / o
Dissolved Silver	1,611		1.7	0	ΩN	1.7	3.65	1 1 2
Dissolved Zinc	אַה ויים ו	18	<b>L</b> -	O	2	7	3.5	1/2

0 · Not Detacted

Final CTH SW Criteria = 2000, May 18, Federal Reg ster Volume 85, No. 97, 40 CFR Part 131. Water Quality Standards, Establishmen; of Numeric Criteria NA - Not Analyzed
ND - Not Defected
ND - Not Defected
1990 WCC = 1990, November 14. Woodward-C.yde Consultants, Final Technical Appendix to the Master EIR. Table 5-2. for Priority Toxic Pollutants for the State of California.

\*Results for Orthophosphate, Total Suspended Solids, and Total Kjeldahi Nitrogen from: 1980, July. Woodward-Clyde Conscitants. Dry Weather Sampling Results Raport. Table 4.

\*Applicate was also detacted in the titp blank for the samples with hits, so the results should be reviewed with partion.

CTR criteria are from human health organisms only order a. <sup>4</sup>Values for hexavalent chromium was used for chromium

### Playa Vista Water Quality Sampling Dry Weather - Ballona Wetlands - Saltwater Summary of 1990

General General Total Buschees mg/L Total Suspended Solks* mg/L Nitrale Ammon:a mg/L TKN* mg/L TKN* mg/L Othrophosphorus* mg/L TKN* mg/L Othrophosphorus* mg/L PAHs phosphorus* mg/L PAHs mg/L VOGS Grease ug/L VOGS Grease ug/L VOGS Anderse	<u>#</u>	CTH Chronic	WCC Sta. 4		ογ	Dry Weather		
Hardness Suspended Solids *  Suspended Solids *  Income  Prosphorus *  Prosphorus *  Grease *  G		SW Calledon	Sta. 4					
Hardness Suspended Solics*  Elefon: On:a  Phosphorus*  Grease Cides and PCBs								
Hardness Suspended Solids * le le corva pphosphorus*  Grease cides and PCBs			Gas Co. Rd					
Hardness Suspended Solids* Formula forma Inchesional forms Formula forma Grease Cides and PCBs	_		5/16-17/90	Minimum	Maximum	useli	/ \$1!H	Total
al Hardness al Suspended Solids and solid								
al Suspended Solids "  mon:a  monia  Nophosphorus   B Prosphorus   G Grease  A Grease  Micides and PCBs	٦,	1	140	140	140	140	-	-
monea  \[ \lambda_{\text{in}} \\ \text{in} \\ \text{hophosphorus} \\ \text{hophosphorus} \\ \text{Hs} \\ \text{Hs} \\ \text{hickesse} \\ hic	<u>ا ا</u>	ı	16	16	91	94	11	1
mona Notrosphorus Hal Phosphorus & Grease Nicides and PCBs	7,	1	0.24	0.24	C.24	0.24	11	1
Valorophorus* Incophorus* Is Prosphorus As Grease Nicides and PCBs	٦,	1	2.2	2.2	2.2	2.20	11	1
hophosphorus*  A Brosphorus  A Grease  Nicides and PCBs	٦,	1	3.4	3.4	3.4	3.40	1 /	1
al Phosphorus Hs & Grease kiloides and PCBs	7	1	4.1	1,4	1,4	1'4	/	1
A Grease Micides and PCBs	. 7/	1	1.6	1.6	1.6	1.80	11	1
& Grease Micides and PCBs	٦	· 1	٥	QV	QN	ΔN	/ 0	1
sticides and PCBs	J.	-	0	202	ON .	ON	10	
i accia	\ \ \	ı	٥	2	ļ.	ΩN	0	_
				100 Sept. 1				Sur Sur
	1 7	_	14	14	14	14	11	1
Methylene Chloride " µg/l.	ν.	1,600	0	٩	Q	ΩN	10	-
Other VOCs µg/L	V.	ı	0	۵v	Q	QX	/ O	_
Metafs (Dissolved)								1.814
Dissolved Arsenic µg/L	V.	36	O	ΔĎ	ON	QN	10	1
Dissolved Cadmium   µg/L	A. I	9.3	0.1	0.1	0.1	01.0	1 1	1
Dissolved Chromium 4 μg/L	T.	50	1	1	1	1	1	1
Dissolved Copper	] 'T'	3.1	. 5	5	\$	S	/ 1	1
Dissolved Lead	7	8.1	0	CN	ĠΝ	QΝ	/ 0	1
Dissolved Mercury	7	ı	0	ð	QΝ	GN	10	1
Dissolved Nicket	بہ	8.2	. 6	đ	8	6	1 1	1
- un	7.	71	0	ND .	QN	QΝ	<i>,</i> 0	1
Dissolved Silver	A.	j	0	AD	QN	GN	/ 0	1
Dissolved Zino	ب.	18	æ	54	35	54	-	_

0 - Not Defected NA - Not Analyzed ND - Not Detected

1990 WCC = 1990, November 14. Woodward-Clycle Consultants, Final Tachnical Appendix to the Master ER. Table 5-2. Final CTR SW Criteria = 2000, May 18. Facteral Register Volume 85, No. 87, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Priority Toxic Poliutants for the State of Cellfornia.

\* Results for Orthophoaphate, Total Suspended Solids, and Total Kjeldahi Nitrogen from: 1990, July. Woodward-Clyce Consultants, Dry Weather Sampling Results Report. Table 4.
\* Acetone was also defected in the trip blank for the samples with hits, so the results should be reviewed with caution.

° OTR oritoria are from human health organisms only oriteria.

### Pisya Vista Water Quality Sampling Dry Weather - Centinela Ditch - Saltwaler Summary of 1990

	_		1990 WCC			ŀ		Γ
Parameters	Chits	CTR Chronic SW Criteds	WCC 5th 3		Dry	Dry Weather		
			Cent. Ditch					
			5/16-17/90	Minimum	Maximum	Medin	Hits / 1	Tota
General			A CHARLES					Ö
Total Hardness	mg/L		720	720	022	720	1 / 1	
Total Suspended Solids	I movi	1	140	140	140	140	1 / 1	
Nirate	T/GIL	1	0.23	5.23	S)	0.23	1 / 1	
Ammonia	mg/L	Arrel	0	Q	2	9	0 / 1	
TKN	mg/L	[	3°L	ا. ئ	1.5	1.50	1 / 1	Γ
Orthophosphorus*	mg/L	1	0,4	0.4	9.4	24	1 / 1	Γ
Total Phosphorus	mg/L		92.0	3.76	0.76	0.76	111	Γ
PAHS	7,511	ı	0	QN	2	9	10	Γ
Oil & Grease	_m9√L		Ŷ	Q	2	2	0 / 1	Ī
Pesticides and PCBs		1	0	Q	2	2	0 /	Γ
VOCs						N. M. M.		
Acatone	7/Sπ	ļ	. 0	QN	QN	9	0.7.1	
Wethylene Chloride "	1'gi	1,600	0	Q	Q	Š	0 / 1	Γ
Other VOCs	J'Qi:		٥	QN	Ð	9	0 / 1	Γ
Metals (Dissolved)		10 May 20						
Disselved Arsenic	T/Sr:	38	4	7	4	7.0	1 / 1	
Disscived Cadmium	.to!	9.3	2	. 2	3	2,00	1/1	
Disselved Chromium <sup>d</sup>	<sup>ታ</sup>	50	8	6	6	6	1/1	
Disselved Copper	เดา	3.1	. 9	5	\$		111	
Dissolved Lead	ě	8.1	- 61	19	19	19.0	1/1	
Dissolved Mercury	,6r	1		ND	gN	Q	0 / 1	
Dissolved Nickel	_1/gH	8.2		7	۷	7	111	
Dissolved Selenium	HQ/L	71	0	QN	ĠΝ	ON	1/0	
Dissolved Silver	L'gu.		0	QN	ÖN	ON.	110	
Dissolved Zinc	T/Bri	-81	Z	54	54	54	11	
						1		

D - Not Cetected

NA - Not Analyzed
ND - Not Analyzed
ND - Not Analyzed
ND - Not Detected
1990 WCC = 1990, November 12. Woodward-Clyde Consultants, Final Technical Appendix to the Master EIR. Table 5-2.
Final CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria
for Priority Toxic Policiants for the State of California.

Results for Orthophosphate, Total Suspended Solids, and Total Kjeldahi Nitrogen from:
 1990, July. Woodward-Clyde Consultants. Dry Weather Sampling Results Report. Table 4.
 Acatione was also celected in the trip blank for the samples with hits, so the results should be reviewed with cauthor.

\* CTR offerta are from human health organisms only criteria.

### Summary of 1990 Playa Vista Sediment Quality Sampling Ballona Channel - Saltwater Portion WCC

			33W 0881	1880 WCC					
		NOAA	WCC	WCC		58	Saltwater		
Parameter	Units	SQUIRT	Sta. 5	Sta. 6					•
		Marine Sediment							
		PELS.	Ballons	Bellone					
		1999	May-90	May-90	Minimum	Maximum	Mean	Hits	Total
General						TO STATE OF			
Oil & Grease	mg/kg	1	23	46	46	55	51.5	2	2
bis(2-Ethylnexyl)phtnalate	pa/kg	1	0	6.0	Ş	6.9	0.45	-	2
Metas				The second second					
Arsenio	mg/kg	9.12	ĸ)	4.3	4.3	9	4.65	12	2
Cadmium	mg/kg	4.21	2.2	1.7	1,7	2.2	1,95	2	2 /
Chromkum	mg/kg	160.4	61	18	18	ę,	18.5	2 /	2
Copper	твука	108.2	81	30	18	8	24	2 /	2
· Lead	mg/kg	112.19	52	110	23	110	5.99	7 2	2
Mercury	шаука	0.696	0	0	QV.	Q	Q	10	2
Nickel	mg/kg	42.8	p.	6	6	Pl	11.5	2 /	2
► Selenium	mg/kg	1	0	٥	QN	ΩN	Q٧	/ 0	/ 2
Silver	mg/kg	1.77	9°Q	0.5	0.5	0.5	0.5	2 /	2
Zinc	ωōyd	27.1	22	170	73	170	122	2	2
kladar.									

Notes:

0 - Not Detected

NA - Not Analyzed

NA - Not Analyzed

NA - Not Analyzed

ND - Not Detected

PEL - Probable Effects Level, level above which adverse effects are frequently expected

1990 WCC = 1990, November 14. Woodward-Ciyde Consultants, Final Technical Appendix to the Master EIR. Table 5-2.

\* Burthman, M.F., 1999. NOAA Screening Quick Reference Tables, NOAA HAZMAT Report 89-1, Seattle, WA, Coastal Protection and Passoration of Division, National Oceanicand Almospheric Administration, 12 pages.

\* Apparent Effects Threshold (AET) is used instead because PEL is not listed

"Indicates exceeds guidance values

#### Summary of 1990 Playa Vista Sediment Quality Sampling Ballona Wellands - Saltwater WCC

			1990 WCC					Ī
	:	NOAA	WCC		Stor	Storm Drains		
Parameter	Silva	SQuiRT Marine Sediment	Ste.					
		PELs'	Jefferson SD					
(General	A. 1 - 5.10 00	1988	May-90	Minimum	Maximum	Mean	Hits / Tot	Total
Oil & Grease	mg/kg	1	2:00	2100	2,100	2,100	1 / 1	
VOCs				A THE COURSE				Ä
1,1,1-Trichloroetnane	Буют	ı	0 1	QΝ	QN .	Ö	1 / 0	
1,1,2,2-Tetrachlorcethane	βy/cπ	1	0 1	ON	_ QN	QN	1 / 0	
1,1,2-Trichloroethane	Буубт	ı	0	QN	QN	QN	1 / 0	
1,1-Dichloroethane	pykg	1	0	ON	QN	ND	0 / 1	
1, 1-Dich oroethene	paykg	1	0	QN	QN .	ďλ	1 / 0	
1,2-Dichoroethere	пачка	<b>J</b> .	0	QN	Q	QN.	- ^ 0	Γ
1,2-Dichlorobanzana	µg/kg	1	0	QN	αN	GN	0 / 1	
1,2-Dichtoropropane	Bg/kg		0	Q	QN	SS.	1 0	
1,3-Dichlorobenzene	μg/kg i		O	QN	QN.	OV.	1 / 0	
1,4-Dichlorobanzana	пачка	ı	O	QN	ND	ND	0 / 1	
2-Chloroathylvinylether	μΩ/kg	1	٠	ND	ON.	ND	1 / 0	
2-Hexanone	Hg/kg	1	0	Q	Q	ND	- / 0	
Acetone	µg/kg	1	Ó	NO	Q	ND	0 / 1	
Acrolein	±Ω/kg	1.	٥	ΩN	QN	ND	0 / 1	
Aprylonitrile	ug/kg	+	· · ·	NO	QN	QN	1 / 0	
Bromodichlorometnane	µg/kg	ı	ç	QN	QN	ND	0 / 1	
Bromomethans	палка	1	0	ND	QN.	Q.	1 7 0	
Benzene	µg/kg	ı	0	QN	dN.	QN.	0 / 1	
Bromoform	полка	1	0	ND.	QV	ND	0 / 1	
Chlorobenzene	полка	1	٥	QΝ	άN	ON.	1 0	
Carbon Tetrachlorida	пдука		٥	QN	Q.	ΝĎ	0 / 1	
Chlaroethana	5y/61	1	٥	QN N	皇	ΩN	- '	
Chloroform	ng/kg	1	0	2	g	NO NO	0 / 1	
Chicromethane	EQUST1	1	Û	ND	딮	O.	0 / 1	
Carbon Disuffice	19/kg	1	Ć	ND	QN	ND	0 / 1	
Dibromcchloromethans	. Буубп	ı	0	ND	ON	νo	0 / 1	
* Ethylbenzens	ng/kg	4	O	ND	ND	NO	0 / 1	
Frean-113	ng/kg	1	C	ND	QN	CN	1 / 0	
Methyl Ethyl Ketone	п9/кд	1	. c	ND	QN	ON	1 / 0	
Methyl Isobutyl ketone	ng/kg	ì	. o [	ND	Q	GN	1 / 0	
Methylene Chloride	µg/kg	*	ပ	ΝĎ	Q	ON.	0 / 1	

#### Summary of 1990 Playa Vista Sediment Quality Sampling Ballons Wetlands - Saltwater WCC

NOAA   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989   1989				<					
Martine			NOAA	20 M		Stor	Storm Drains		
PELE   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899   1899		alte	SQuIRT Marine	Sta. 4					
Incomplement         ILIGNG         1999           Incomplement         ILIGNG			Sediment PELA*	Jaffarson SD					
Interference	:		1999	May-90	Minimum	Maximum	Mean	H ST	Total
Interception   Ingly		gykg	1	٥	Q	S	g	٥	  -
Injury   I		g/kg	14	٥	2	ð	ş	0	-
1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990   1990		DY G	1	٥	Q	S	ş	٥	-
Aceiste	-	9kg		٥	ð	£	2	0	-
Acetate	:	Sko	52	0	2	S	문	0	-
Chloride         Light         4           Xylanes         Light         4           Activation of the control of the co		g, Kg	1		Q	Ω	₽	0	-
Xyjenes         Lupkg         4           2-Dichlorosthene         1-g/kg         —           2-Dichlorosthene         1-g/kg         —           1-12-Dichlorosthene         1-g/kg         —           1-13-Dichlorosthene         1-g/kg         —           1-13-Dichlorosthene         1-g/kg         —           1-13-Dichlorosthene         1-g/kg         —           1-13-Dichlorosthene         1-g/kg         —           1-14-Dichlorosthene         1-g/kg         —           1-15-Dichlorosthene         1-g/kg         —		g/kg	1	٥	Q	2	2	٥	_
2-Dichlorocethene		D/kg	7	0	2	₽	2	٥	-
1.2-Dichloropticipane   1.9/kg	-	64/6	1	0	Q	2	문	5	  -
1.2-Dichlorocethene		g/kg	_	0	Š	2	물	٥	-
1,3-Dichloropropens   1,0/kg	r	g/kg		٥	Q	£	Ş		-
	_	g/kg		1	2	2	ş	0	
9 Hg/kg —— 9 Hg/kg 13 9 Hg/kg 110 Hg/kg —— Hg/kg 245 Hg/kg 245 Hg/kg 245 Hg/kg 245 Hg/kg 245 Hg/kg 245 Hg/kg 692.53 Hg/kg 692.53									
DAYOU  DA	}	g/kg	-	0	Q	Q	S	0	-
Hayes  Ha		Q,KG	13	٥	Ž	Q	Ş	0	-
DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU DAYOU	9	ōγkō		0	Q	Q	2	0	-
Harry		cykç	_	0	ND.	QN	ΩN	/ 0	
Payed	ne	g/kg	110	0	ON	QN	QΝ	/ 0	ł
HOWER HORSE		3/Kg	ı	0	NO	QN	QN	/ 0	-
Hayes  Ha		5y/C	_  -	. 0	NO	ON	2	0	1
Payed and Act of the A		5 y/c		0	S	QV	QN	0 0	1
Hands and the state of the stat		J-Kg	ŀ	0	Q	ND.	ON	/ 0	1
ather sylver syl		J/kg	ı	0	ON.	ON	ON	/ 0	-
ather yaykg		ğ	I	0	Q	QN	ON	/ 0	-
Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sy	7	Š,	١	0	Q	QQ.	Q	0	-
Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori		Ş.	1	٥	2	QZ	2	0	-
Syder Syder Syder Syder Syder Syder Syder Syder		D.	,	0	Q	Q	2	0	-
Sylori Sylori Sylori Sylori Sylori Sylori Sylori Sylori		Ş.	98.9	0	₽	ç	Q	0	-
Sylon Sylon Sylon Sylon Sylon Sylon Sylon		₽.	127.87	3	QN	Q	2	0	_
Sylon Sylon Sylon Sylon		g,		٥	Q	ĝ	2	0	-
5y6d 5y6d 5y6d		S.	245	٥	9	Q.	2	•	_
Sylon Sylon		핅.	1	٥	Q.	Q.	2	0	_
pg/kg pg/kg		닭.	692.53	٥	2	2	٥	0	-
ug/kg pg/kg		D,	763.22	٥	Q	Ş	9	-	_
pg/kg		B A	1630	٥	ð	Q	Š	` °	1
		S N	670	0	ą	Ŷ	2	0	1
Benzo(k)fuoranthene kg/kg 1800		P <sub>k</sub>	1800	٥	Q	ġ	Q	0	1
		J/Kg	63	O	QN	ON	2	7 6	1
Chrysene µg/kg 845.98		J/kg	845.98	0	Q	Q	Q	7 6	1 1
Di-n-octylphthalete µg/kg 61		3/kg	61	0	S	NO.	2	7 0	1

## Summary of 1990 Playa Vista Sediment Quality Sampling Ballona Watlands - Saltwater WCC

	_		1990 WCC					
Parameter	Cnit*	NOAA SQUIFT Marine Sediment PELs "	WCC Sta. 4 Sta. 5		Stori	Storm Drains		
		1999	May-90	Minimum	Maximum	Mesn	/ <b>野</b> 至	Total
Oibenz(s,h)anthracene	бу,бп	134.61	0	ð	ę	ę	0	L
Dibertzofuran	6y,6n	ı	0	Q	2	Ş	0	_
Dibutylphthalate	ENOTE	1	o	Q	2	£	0	
Diethylphthalate	pa/gr:	œ	٥	Q	Q	2	0	_
DimethyloPhhalale	Ω/kα	9	c	Ş	CŽ	Ę		
Fluoranthene	πα/kα	1493.54	c	22	2	Ž	0	. _
Fluorene	no.kg	144.35	C	ÜN	GN.	Ş	, 0	_
Hexachlorobenzene	ug/ka	8	c	QV	Q	9	0	_
Hexachlorobutadiene	OXOT	1.3	٥	Q	Q	9	0	<u> </u> _
Hexachlorocytolopentadience	Dy.Or.	ſ	٥	2	£	2	0	L
Hexachioroethane	ng/kg	g	٥	ş	ş	2	0	_
Indeno(1,2,3-c,d)pyrene	5y/6tt	900	0	Q	Q	2	0	_
Isophorane	ng/kg	i	0	2	S	2	0	_
N-Nitrasodimethylamine	μ <b>o</b> /kg	i	0	Q	Q	2	0	_
N-Nitrosodiphanylamine	бу/бп	28	0	₽	Ş	9	0	_
N-Mirosogi-n-propyramine	6 <b>3,6</b> π	ı	0	Q	윷	Ð	0	_
Nitrobenzene	6γ,6π	t	0	2	ĝ	Q N	0	L
Naphthalene	ing/kg.	390,64		Q	QN	Q	10	L
Phenanthrene	бх/бт	543.53	0	QN	ON	QN	0	
Pyrene	буют	1397.8	0	Q	ş	9	-	
bis(2-Chloroethoxy)methane	палко	-	0	Q	Ş	9	, 0	
bis(2-Chiproethyl)ether	5 <b>0</b>	1	0	2	Q	Q.	/ 0	-
bis(2-Chloro(sopropyl)ether	50/61	ı	0	QN		Q	/ 0	1
bis(2-Ethylhexyl)phthalate	5ayea	- Constitution of the Cons	0	Q	Q	Q.	· 0	_
Votals	201						100 September 10	***************************************
All Services		2,7	6,	0,7	6,5	6,5		
Chroming	2 2	7 001	٥	0 0	2 5	D, C		_[,
Conser	2 5	0.00	2 8	2 6	2 0	2 8	,	
Fead	DAMP.	112.18	8 02	8 2	9 0	8 8		_
Mercury	DOKO	0.896	0	Ş	Ę	Ş		L
Nickel	e you	42.8	,	-	2	5	,	_
Selenium	Dayko	-	C	Ş	é	Ş	6	l.
Silver	E S	1.77	0.4	40	4.0	0.0	,	
Zinc	mayka	27.1	280	280	280	280	-	
Posticides and PCBs								
Aldrin	ng/ka	9.5	0	ā			0	
Chlordane	полка	4.79	0	Ð	9	₽	7 0	Ļ
02240.0	noyea	7.81	-	Ş	2	Ş	, ,	ľ
						2	-	

### Playa Vista Sediment Quality Sampling Ballona Wetlands - Saltwater Summary of 1990

	_		1996 WCC					
		AAON	WCC		100	Storm Grains		
Parameter	Unite	SOWIET	574.4					
		Marine						
		Sediment						
		PELs*	Jefferson SD					
	-	1999	May-90	Minimum	Maxemum	Mean	Hits	Total
P.p. DDT	ug/kg	4.77	Ó	QN .	ON	S	0	-
Dieldrin	54/Sti	4.3	0	ON I	_ ON	QN.	0	
Endosulfan I	ng/kg		Q	QN	R	⊋	0	1 1
Endosultan II	By/Gn	444	۵	QN.	Q	윤	٥	-
Endosulfan Sulfate	pa/qu	_	0	۵Ņ	ΩN	2	0	-
Endeln	6A/6m		0	Q	2	₽	0	1 1
Endrin aldehyde	ug/kg	_	q	QV	Q	ą	0	-
Heptachlor Epoxide	ug/kg		C	SG	Q	9	0	-
Hepiachlor	pa/pr:	6.0	C	Q	ON	æ	0	۱ ،
Methoxychior	±0,γ6π		C	S	2	ą	٥	-
Aroclor-1016	µQ/kg	188.79	C	ON.	QN	Ŷ	0	-
Araclar-1221	HQ-KG	188.79	0	Q.	Q.	2	٥	- 1
Aroclor-1232	trg/kg	188.79	0	Q.	QN	QN	٥	-
Aroclor-1242	: Pykg	188.79	c	NG	ON	Q	0	-
Arpclar-1248	64/6rd	62'881	c	Q.	QN	Q	0	- /
Aroclor-1254	HQ/Kg	62'881	c	S.S	ON	QN	0	۱ ۱
Arockir-1260	gy⁄an	188.79	0	Qν	_ ON	ΔN	0	۱ ا
Arodor-1262	βγ <mark>⁄</mark> δή	188,79	0	QN	QN	QN	0	1 1
Toxaphene	Ďη/ĞĦ	—	0	QX	QN	ΔN	0	1
alpha-BHC	64/6ff		٥	QN	Q	9	0	-
beta-BHC	i μα⁄κα :		0	QN	QN	Q	0	-
delta-BHC	μ <b>©</b> /kg		0	ΩN	ĠΝ	QN.	0	1
gemme-BHC (lindane)	µg/kg	66.0	0	QN	QN	Ş	0	-

0 - Not Detected

NA - Not Analyzed

ND - Not Detected

ND - Not Detected

SO - Storm Detected

PEL - Probable Effects Level, level above which adverse effects are frequently expected

1950 WCC = 1990. November 14. Woodward-Clyde Consultants, Final Technical Appendix to the Master EIR. Table 5.2.

Polection and Restoration Division. National Oceanic and Atmospheric Administration, 12 pages.

\* Apparant Effects Threshold (AET) is used instead because PEL is not listed

\* Indicates exceeds guidance values

# Summary of 1990 Playa Vista Sediment Quality Sampling Centinela Ditch - Saltwater WCC

Parameter		NOAA	WCC			Storm Oredon		
Paremeter		MOAA	MCC.			17.0		
Parameter					ŝ			
•	Units	SQuiRT Marine Sediment	Sta. 3-Avg.					
		PELS.	Cant Ditch					
		1989	May-80	Minimum	Meximum	Mean	Hita / To	Total
Genera!	1000	The Mark Street	STATE OF THE PARTY					
Oif & Grease	то/ка	***		89	68	58	1 1 1	_
VOCS								
\$.1,1-Trichlorcethane	ugvkg i	-	0	ON	Ş	QV	0 / 1	
1.1.2.2-Tetrachloroethane	f 6y/6r	1	0	Q	Q	GN	0 / 1	
1.1,2-Trichlorcethans	Pa/ga	ı	0	ON	ş	QN	0 / 1	
1.1-Dichloroethane	rp/kg	E e	0	2	9	ON.	- 0	Ϊ
1.1-Dichlorositisme	pp/kg	]	0	QN	QN	QN	0 / 1	
1.2-Dichloroethane	P.D.kg	1	0	NO.	Q	Q.	1 / 0	
1.2-Dichlorobenzene	₽9/kg	ı	0	ON	ON	QN	1 0 1	-
1,2-Dichloropropane	i by∕g⊓	J	0	ND	ON	QN	0 / 1	
1.3-Dichlorobenzana	hD/kg	1	0	ND	ON	ON	0 / 1	
1, 4-Dichlorobenzene	Булат	1	0	QN	ON	QN	1 0	
2-Chloroethylvínylether	PD/kg		. 0	NO	QN	an	0 / 1	
2-Hexanome	пэ∕ка	1	0	ND	Q.	ON	0 / 1	
Acelone	ру/сц		0	ON	ON	QN	1 0	-
Acrolein	ug/kg	1	0	QN .	QN	QN	0 / 1	
Acrysonitrile	E3/kg		0	SID	QN	QN	1 1 0	
Bromodichloromethane	пэлко		0	ND	ON	QN	0 / 1	
Вготоперале	па/ка	1	0	NO	QN	QN	0 / 1	Γ
Benzane	бұ/бп	1	0	QN	Q	QN	10	Г
Bromotorm	паука	ı	0	QN	QN	QΝ	1 / 0	
Chlorobenzene	SyyEn	_	0	QN	QN	GN .	1 / 0	
Carbon Tetrachicride	пэже		0	QN	ON	ON	1 / 0	
Chloroethane	бу/бп		0	QN	Q	ON.	1/0	
Chtoroform	палка	1	0	ON	ND	ÓΝ	1/0	
Chloromethane	полко	-	0	QN	S S	QN	0 / 1	
Carbon Disulfide	руже	1	0	ON	QN	QN	1 / 0	П
Dibromochicromethane	ngvkg	I	0	QN	Q	ďΝ	0 / 1	
Ethylbenzene	20/kg	4	0	QN	ð	QN	0 / 1	
Freon-113	μg/kg	1	0	QN	æ	ΩN	0 / 1	
Methyl Elfryl Katona	navka	****	0	ΩN	NO	QN	0 / 1	
Methyl Isobutyl katone	па/ка	1	0	2	NO.	QN	1 0	
Methylene Chloride	пдука	1	0	Q	ΝD	Q	0 / 1	

# Summary of 1990 Pinya Vista Sediment Quality Sampling Centinela Ditch - Saltwater WCC

			200					
		NOAA	WCC		Sto	Storm Drains		
Parameter	ŝ	SQUIRT	Sta. 3-Avg.					
		Merine						
		PELs '	Cent. Ditch					
		1996	May-90	Minimum	Maximum	Mean	H.	E C
Styrene	Буубя	I	0	Ŷ	<del>Q</del>	Q.	, 0	-
Trichlorgethens	пдука	41	0	Q	QN	QV.	/ 0	-
Trichlorgfluoromechane	5y/6ri	1	0	Ŷ	QN.	Š	0	-
Toluene	by6n		0	Ş	S	QX	0	-
Tetrachicroethene	no/ka	57	0	2	Q	QN	0	-
Vinyl Acetale	noyka	***	0	Ş	Ę	QN.		-
Vinyl Chloride	nayea	-	Ū	Ŷ	ę Į	2		-
Total Xvienes	SV DII	4	0	£	Q	Q	-	-
cés-1,2-Dichlarbethene	DX/OT		0	£	ş	2		-
dis-1,3-Dichloropropene	ng/kg	1	0	Ŷ	₽	2	0	-
trans-1,2-Dichloroethene	DI,		0	€	2	2	0	-
brana-1,3-Dichlorogropene	D) On		0	£	2	Q		-
SVOCs		THE REAL PROPERTY.	- 15 - 15 - 15 - 15 - 15 - 15 - 15 - 15					
1,2,4-Trichlorobenzerie	n∂/kg	-		Q	Q	άN	0	-
1,2-Dichlorobenzene	BA'6	13	٥	ş	Ş	9	•	-
1,2-Diphenythydrazine	ng/kg	j	٥	Ş	₽	Q	6	-
1,8-Dichlorobenzene	ра,ка	ŀ		ģ	QΝ	Q	0	-
1,4-Dichlorcbenzene	Dy/Ort	110	0	QN	QN	ON.	0	-
2,4-Dinitrololuer.e	j gy/kg ∣	1	0	QN	QN	ÓN	/ 0 .	-
2,6-Dinitratoluane	μΩ/kg	ı	0	۵N	QN	QV	/ 0	-
2-Methyfnaphthalene	no/ka		٥	£	Q.	Q	0 /	-
2-MiroanHine	полка		C	Ŷ	QN	Q	/	-
3,3'-Dichlorobenzidine	Bγ,δi	<b>‡</b> .	Э.	ð	Q	Q	/ 0	-
3-Nitroansine	полка	1	O .	2	QN	ON	0	-
4-Bromophenylphenylether	D)/OH	1	S	⊋	Ñ	2	) O	-
4-Chlorogailine	By/Sm	1	2	Q	9	ģ	0	-
4-Nitroaniline	By Sal	1	3	2	ĝ	Q	^	-
Acenaphihene	US.Kg	88.9	o .	ā	Ş	Q	•	-
Acenaphthylene	ug/yg	127.87	0	ĝ	Q	2	^	-
Aniline	D. Val	•	D	ĝ	Š	2	0	
Anthracene	псуса	245	0	Q.	Ñ	2	0	-
Benzicine	D G	1	o	2	2	Q	/ 0	-
Benz(a)anthracene	uQkg	692.53	0	Q	2	Q	/ 0	
Benzo(a)pyrene	ug/kg	763.22	0	QN	_QN	Q	1.0	μ
Benzo(b)fluoranthene	: Marke	1800	0	Q	Q.	CN CN	/ 0	-
Benzc(g,h,i)perylene	поле	670	0	ON	Ŋ	ON.	7 0	-
Benzo(k)fluoranthene	ug/kg	:800	0	QN	QN	Q	10	-
Butylbenzylphthalate	ag/kg	63	0	ดง	92	ON	/ 0	-
Chrysene	Dy/DT:	845.98	0	92	ND	QN	0 /	-
The same darkate land		i		4.1	61.			

### Summary of 1990 Playa Vista Sediment Quality Sampling Centinela Ditch - Sattwater WCC

			1990 WCC					
Parameter	units.	NOAA SQUIRT Marine Sediment PELs*	WCC Sta. 3-Avg.		Stor	Storm Drains		
		1989	May-90	Minimum	Maximum	Mean	Hits /	Total
Dibenz(a,h)anthracene	PP/kq	134.81	•	S	Ð	£	- 0	-
Dibenzofuran	HD/kg	,	0	ş	2	2	0	_
Dibutyiphthalate	P. P		•	QV	Q	皇	- 0	-
Diethylphthalate	up/ka	9	0	Ş	£	2	, 0	ŀ
Dimethylphthalate	up/kg	9	0	2	Ð	£	~	_
Fluoranthene	py kg	1493.54	0	Ş	£	운	0	_
Fluorene	oy.on	144.35	0	S	Q	2	0	Ļ
Hexachiorobenzene	μ <b>g/k</b> g	θ	0	Š	Q	Q.	1 0	_
Hexachtorobutadiene	ngvkg	1.3	٥	S	₽	문	~ 0	_
Hexachiorocyiplopentadiance	LD/kg	-	0	QV	Q	QN	0	L
Hexachioroethane	kp/kg	E,	٥	Ş	₽	물	0	_
Indeno(1,2,3-c,d)pyrene	-pykg	900	°	2	2	물	0	_
Isophorone	EN/GI	ļ	0	9	9	Ð	10	1
N-Nitrosodimethylamine	µg/kg	١	0	ŊN	QN	QV QV	1.0	1
N-Nitrosodiphenylamina	ng/kg	972	Ô	2	Q	QN	10	
N-NitrosodI-n-propylamine	ug/kg	1	0	ND	QN	æ	/ 0	_
Nitrobenzene	μg/kg	ı	0	Q	₽	Q	/ 0	_
Naphthelens	μgνkg	390.64	0	QN	Q	Š	/ 0	_
Phenanthrene	μgνkg	543.53	0	2	S	ğ	0	
Pyrene	ρχ	1397.6	٥	2	Ş	Ş	0	_
bis(2-Chloroethoxy)methane	Mg/kg	I	٥	2	₽	욷	0	
bls(2-Chloroethyl)ether	Pig/kg	1	٥	9	ş	윋	0	_
bis(2-Chloro(sopropyl)ether	E K	ı	٥	2	ş	2	0	_
bis(2-Ethythexyl)phthalate	ugvkg	1	0	Q.	QX V	QN	/ 0	1
Wetals	LI-VOID MOUNTE	41.8	284	9 86	0.85	2.35	-	-
Cadanium	E ACAKO	12.4	2		2			
Chromium	по∕ка	160.4	27.5	27.5	27.5	27.5	-	
Copper	шо∕ка	108.2	28.5	29.5	29.5	29.5	/	1
Lead	тоука	112.18	. 53	58	58	25	/	_
Mercury	mg/kg	0.696	. 0	ON	QN	QN	/ 0	
Nickel	mg/kg	42.8	8.5	9.5	9.5	9.5	1 /	_
Selevium	mg/kg		0	ND	ON	Q	10	1
Silver	то/ка	1.77	0.7	0.7	2.0	0.7	1.1	1
Zinc	mg/kg	271	160	160	160	160	771	1
Pesticides and PCBs					州大学会			
Akdrin	μgvkg	9.5	0	2	g	Q	0 /	
Chlordane	ug/kg	4.79	0	ON	QN	QN	/ 0	1
<u>000</u> -d'd	ugvkg	7.81	0	ON	æ	Ð	/ 0	-
1000	2/12	21.702	·	2	C2	QIA.		١,

### Table A-4.6

# Playa Vista Sedimeni Quality Sampling Centinela Ditch - Sattwater WCC Summary of 1990

			1990 WCC					
		NOAA	WCC		Ston	Storm Drains		
	-11-11							
FEBITION	5	Marina	ON C-PAG					
		Sediment						
		PEL.	Cent. Ditch					
		1999	May-90	Windmum	Meximum	Mean	His /	Yota
100-,d'd	Hg/kg	4.77	0	2	Ş	ą	-	-
Dieldrin	полка	4.3	0	QN V	ş	ģ	/ o	-
(ue)jnsopug	μg/kg ⊨		0	¥	ş	Q.	0	-
Endosulfan II	по/ка	1	0	ş	2	Ð.	0	-
Encosultan Sulfate	полка	1	0	9	Ş	QV.	0	-
Endrin	рууст	1	. 0	Ş	Ş	2	0	-
Endrin aldehyde	pg/kg	ł	0	웃	Q.	ΩN	0	-
Heptschfor Epoxide	Ба,ба	1	0	QV.	QN	Q	0 /	1
b Heptachior	kg/kg	0.3	0	QN	Q	2	/ 0	1
Methosychlor	6x,6m	1	٥	₽ P	Ŷ	Q.	0	-
Arcclor-1016	паука	138.73	o	Q	S	Q	0	-
Araclor-1221	бубп	138.79	٥	₽	S	Ş	0	-
Araclor-1232	поле	138.79	0	9	QN.	2	, a	-
Arcelor-1242	nove	188.79	0	_ ON	qN	ΩŅ	/ 0	1
Aroclor-1248	CX/SH	138.79	C .	QN	QN.	QΝ	/ 0	-
Aroclor-1254	i dayδπ	138.73	0	QN.	Q	ON.	0	-
Araclar 1260	Ex/St	188,79	0	GN	ΩN	Q.V	0	-
Argejor-1262	6y5n	138.79	0	QN	QN	QN	/ 0	-
Toxaphene	uç/kg		0	QN	QN.	QN	/ 0	-
alcha-BHC	Субп	1:	0	an	NO N	ΝΩ	/ 0	_ l
beta-BHC	ngika	1	. 0	QN	QN	QN	/ 0	-
delta-BHC	100kg	1	0	QN	Q	Qν	/ 0	1
gamma-BHC (Indane)	пожа	0.99	C	gN	ĝ	QΝ	/ o	-

- Notes:

  0 Not Detected

  NA Not Analyzed

  NA Not Analyzed

  NA Not Analyzed

  ND Storm Drah

  PEL Probable Effects Level, level above which adverse effects are frequently expected

  Storm Drah

  PEL Probable Effects Level, level above which adverse effects are frequently expected

  1890 WCC ± 1890, November 14, Woodward-Ciyde Consultants, Final Technical Appendix to the Master Elfs. Table 6-2.

  \*Buthman, M.F., 1998, NOVAM Soreening Quick Reference Tables, Final Technical Report 96-1, Seattle, WA, Coastal

  Profection and Restoration Division, National Decapties and Atmospheric Administration, 12 peges.

  \*Indicates exceeds guidance values

  \*Indicates exceeds guidance values

## Appendix A-5 Aquatic Bioassay Consulting Laboratory Existing Data

Summary of 1905-1997
Playa Vista Water Quality Sempling
Dry Weatter - Bellone Channel - Saltwater Portion
ABCL

			1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL
		CTR Chronic	ABCL	ABCL	ABCL	ABCL	ABCL	ABCL
Perameter	#ijun	SW Criteria	12-0m	12-2m	12-0m	12-2m	12-0m	12-2m
			Ballona Channel	Ballona Channel	Ballona Channel	Ballone Channel	Ballona Chennel	Ballona Channel
General			0.0000	1200 A SALES (10)	05.E/O	20 54	C DA	
Total Coliforn	MPN/100ml	1	Ŷ	ΑN	270	ĄX	80	ΑN
Fecal Collicim	MPN/100mt	1	٥	ΑN	130	Υ×	60	ΥN
Enterococcus	Cofs/100ml	1	ç	ΑN	Ø	Ϋ́	٥	ď
Salinity	0/00	1	33.5	33.5	28.29	3224	31.02	32.64
Dissolved Oxygen	l⁄gπ	ì	9,6	80 80	6.91	5.67	7.01	7.38
Ha	-	-	8.1	8.05	82	B.20	8.13	70.B
NH3+NH4	u-aM	-	1.1	2	5.9	5.30	0	٥
gos	FOE	1	2,5	2.6	3.4	2.40	ş	1.9

Notes:
0 - Not Detected
NA - Not Analyzed
ND - Not Detected
ND - N

Summary of 1996-1987 Playa Vista Wakar Quality Sampling Dry Waether - Ballona Channal - Saltwater Portion ABCL

		1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL
		ABCL	ABCL	ABCL	ABCL	ABCL	ABCL	ABCL	ABCL	ABCL
Parameter	Units	# <del>0</del>	12-21	12-dm	12-2m	12-51 E0-51		12-0m	12-2m	12-0m
n.=		Ballona Channel 10/8/96	Ballons Channel 10/8/96	Ballons Channel	Ballona Channel	Sallons Channel 12/18/95	Baltona Channel	Ballona Channad	Battona Channel	Bailona Channel
Genaral		THE RESIDENCE OF			The second second				THE REAL PROPERTY.	HOUSE STREET
Total Coliform	MPN/100ml	1300	≨	600	AK	16000	N.A.	9006	A.A.	16000
Feca Colforn	MPN/100ml	300	¥	04	4%	300	Ϋ́	270	¥	240
Enterospoous	Cofs/100mi	52	ž	7	A.N.	280	¥	0	ΑX	
Sainity	00/0	24.7	30.26	32.48	33.43	28.9	32.51	28.38	32.88	21.09
D ssolved Oxygen	hgm.	187	8.06	7.46	7.43	8.57	9.1	5.8	7.05	12.73
Hd		7.94	8,13	8.24	8.28	8.24	8.18	8.01	7,84	8.43
NT3+NH4	u-at/l	13.2	6.6	3.7	0	4.9	4.8	14.2	6.9	1,1
803	l/Sim	N.	A.	NA.	ΑN	3.3	E, .	4.6	2.8	8.3
		1 - 1 - 1								

holes:
0 - Not Detected
NA - Mol Anelyzed
NA - Mol Anelyzed
NA - Mol Anelyzed
ND - Not Detected
ND - Mol Marke and Detected
1997 - Mol Marke and Detected
1997 - Mol Marke and Detected
1997 - Mol Marke and Detected
Toxic Pollutants for the State of California.
Toxic Pollutants for the State of California.

# Summary of 1996-1997 Playe Vista Water Quality Sampling Dry Weather - Ballone Channel - Sattweter Portion ABCL

l	1997 ABCL ABCL	1987 ABCL ABCL	1997 ABCL ABCL		Spit	Saltwater					
_	'ailone	3	Ballone Channel	Ballona Channel	Ballona Channel	Ballone Channel	Battone Chemnel				
2/21/97 3/19,	379		3/19/97	5/1/87	57,197	26/2/97	6,2/97	Minimum Meximum	leximum!	Мевп	Hits / Total
	100						F. 10 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15. A 10. A 10.			
NA C	o	H	Ϋ́	2400	ΑN	220	¥	P	18,000	4,188	11/8
NA C	٥		ΑĀ	1300	ΑN	. 02	ž	QV.	006,	248	9711
NA.	٥		ΝA	c	N.A.	. 0	NA	æ	280	28.27	5/11
32.55 26.47	26.47		32.55	28.23	32.98	28.6	33.28	21.09	38.5	30.16	22 / 22
13.92 6.1	6.1		13.92	8.07	9.48	5.5	6.71	5.5	13.92	6.27	22 / 22
8.13 8.43	8.43		8.19	8.34	8 19	8,18	8.12	7,84	8.43	8.17	22 / 22
5.3 16.1	16.1	Н	5.3	2.1	1	23.8	27	ON.	27	6.98	19 / 22
9 8.7	8.7		6	10.3	1.	2.7	3.4	1.3	- 11	5.14	18 / 18

Notes:
0 - Not Celected
NA - Not Analyzed
1997 - September 16. Aquatic Bloassey Consulting Laboratory. The Madrie Environment of Manna cei Rey Harbor July 1998 - June 1997,
Final CTR SW Criteria = 2000, May 18. Federal Pegister Volume 65, No. 97, 40 CFR Part 131. Water Cuelly Standards, Establishment of Numeric Criteria Icr Priority
Toxio Polularis for the State of California.

## Summary of 1996-1997 Playa Vista Wefer Quality Sampling Dry Weather - Santa Monice Bay ABCL

					1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1087 ABCL
		CTR Chrank	000	8	ABCL	ABCL	ABCL	ABCL	ABCL	ABCL	ABCL
Parameter	Suits Califs	¥\$	Objectives	Chronic	1-0 <del>-1</del>	1-2m	Ę	2-0m	E	2-4m	-Çm
		Critteria		Toxichy	SMB	SMB	SMB	SMB	BMS	SMB	SWB
			•		7/29/96	7/29/98	7/29/96	36/52//2	7/2B/96	7/29/96	94/8/8
General	1000				Participated in the same		A STATE OF STATE OF	10 mm	Contract of the Contract of th	THE RESERVE AND ADDRESS.	
Total Col form	MPN/100ml	I	1000	-	40	ΝA	₩N	0	¥	ž	170
Fecal Cortorn	MPN/100mi	1	200	ı	22	₩.	٩×	0	ź	Ϋ́	130
Enterococcus	Col's/100ml	ļ	. I	,	o	NA.	ΨZ	0	¥	ΝÀ	+
Salinity	30/0		-		33.57	33.57	33.56	33.51	33.52	33.51	31.18
Dissolved Oxygen	ligin	ı	_	ſ	8.8	6	9.1	8.6	8.7	8.3	5.54
Hc				ì	8.14	8.14	8.13	8.12	8.1	9.16	8.21
NH3+1-44	u-at/l			1	2.7	0	D	0	0	0	0
GCB _	l/gm	1	f	1	2	2.3	2.8	1.8	1.5	1.7	2.2

Note Selected
NA - Not Detected
NA - Not Detected
NA - Not Detected
1997 ABCL = 1997, September 15. Aquatic Bloassay Consulting Laboratory. The Marine Environment of Marina del Rey Harbor
July 1996 - June 1987.
September 15. Aquatic Bloassay Consulting Laboratory. The Marine Environment of Marina del Rey Harbor
July 1996 - June 1987.
COP Objective California State Water Resources Control Board. California Ocean Plan. Table B Water Quality Objectives. Daily Maxinums for aquatic life
and 30-day Averages for human health.
COP Chronic Toxicity = 1997. Ca. Yornia State Water Resources Control Board. California COP Chronic Toxicity = 1997. Ca. Yornia State Register Yolume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria for Priority
Toxic Pollufants for the State of California.
Indicates exceeds any of the listed oriteria or guidance values.

Summary of 1996-1997 Maya Vieta Water Quality Sampling Dry Weather - Senta Monica Bay

		1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL
		ABCL	ABCL	ABCL	ABCL	ABCL	ABCL	ABCL	ABCL
Parameter	Unite	1-2m	£	2-011	E	2-4m	1-0 <del>m</del>	1-2m	Ī
		SMB	SMB	SMB	BWS	SMB	SWB	SWB	SMB
		8/8/96	8/9/96	96/5/8	8/9/96	96/5/6	96/8/6	96/8/6	9/8/95
General			ACCOUNT OF THE PARTY OF THE PAR		A. 4. 4. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16				Charles and the Charles
Total Coliform	MPN/100mi	ž	₹	0	AN.	ΝΑ	40	άN	NA
Fecal Coliforn	MPN/100mi	ž	≱	0	¥N.	ΑN	\$	ž	Ϋ́
Enterocopus	Col's/100m:	ΨN	ž	2	₹	Ϋ́N	3	ΑN	ΑN
Salinity	00/0	33.01	33.4	33.3	33.3	33.51	31.14	33.22	33.45
Disselved Oxygen	l/6#:	68.5	6.22	7.08	2.03	8.16	8.13	8.38	9.54
Hď		6.24	B.23	8.24	8.24	8.27	8.13	8.15	9.18
NH3+NH4	u-abi	3.8	0	O	c	2.9	D	c	င
909	l'atr	2.0		r. eğ	1.3	6	*	2	18

No. Not Analyzed

NA - Not Analyzed

September 16. Aquatic Bloassey Consulting Laboratory. The Marine Environment of Marina del Rey Harbor

July 1996 - June 1997.

September 1997. September 16. Aquatic Bloassey Consulting Laboratory. The Marina del Rey.

COP Objectives - California State Water Resources Control Board. California Ocean Plan. Table D Conservative Estimates of Chronic Toxicity.

COP Chronic Toxicity = 1997. Celifornia State Water Resources Control Board. California Ocean Plan. Table D Conservative Estimates of Chronic Toxicity.

Final CTR SW Citienia = 2000, May 18. Federal Register Volume 85, No. 97, 40 CFR Pert 131, Water Quality Standards, Establishment of Numeric Criteria for the State of Dalifornia.

# Summary of 1896-1997 Plays Vista Water Quelity Sempling Dry Westher - Sente Monics Bay

		1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL
		ABCL	ABC	ABC	ABCL	ABCL	ABCL	ABCL	ABCL
Parameter		2-0m	2-2m	£-4	ĘĢ	+2+	ŧ	2-011	2-2m
,		SMB	SMB	ENS	SMB	SMB	SMB	SMB	aws
		96/8/6	9/8/96	96/8/5	10/8/96	10/8/96	10/8/96	10/8/96	10/8/96
Ganeral	10 to 3 to		· · · · · · · · · · · · · · · · · · ·		A CONTRACTOR OF THE PARTY OF TH	A Control of the Cont	A STATE OF THE PARTY OF THE PAR	A Company of the Comp	
Total Colitorm	IMPN/100ml	0	N.A	ž	340	Ş	₹	0	ΑV
Fecal Coliform	[MPN/100m]	0	d'A	¥	220 ·	₹N	¥	0	√.
Erteropodeus	Ccl's/100ml	0	A.A.	AN.		¥	Ϋ́	0	ΑX
Samity	0/60	33.21	32.94	33.24	34.64	32.77	33.01	33.3	33.33
Dissolved Oxygen	mg/l	7.33	7.72	8.06	7.69	7.71	8,02	7.8	8.45
PH		8.07	60.8	9.13	8.11	8.11	9.11	8.07	808
NH3+NH4	U-at/	. 0	. 0	0	9'2	3.6	3.3	3.5	4.2
800	mg/l	1.6	2.5	2.5	ΨX	NA.	N.A.	ΨN	Α'n

Notes:

0 - Not Described

NA - Not Aralyzed

NA -

Indicates exceeds criteria

# Summary of 1996-1997 Playa Vista Water Quality Sampling Dry Weather - Santa Monica Bay

		1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL
		ABCL	ABCL	ABCL	ABCL	ABCL	ABCL	ABCL	ABCL
Perameter	ş	245		1-2m	£4.	2-0m	2-2m	7. E	-0-1
		SMB	BWS	SMB	SMB	SMB	SMB	SMB	SMB
		10/8/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	11/15/96	12/18/96
General				and the second second		Control of the Contro	The second second	THE PROPERTY OF THE PARTY OF TH	
Total Collform	MPN/100mt	NA	40	٩N	A.∧	130	¥	ΝA	30C0
Fecal Coliform	MPN/100m	ΑN	20	ΑN	NΑ	8	¥	ΑX	2400 *
Enteropodous	Co.'s/100mt	ΑN	0	¥X	A.A.	0	₹	AN	008
Sa. nity	00/0	33.31	33.37	33.41	33.45	33.39	33.42	33.45	32.07
Dissolved Dxygen	1/5/11	9,48	B.62	8,53	6.69	8.59	9.52	8.5	7.8
Hd :	1	8.13	8.28	8.29	8.28	8.29	8.29	8.3	8.2
NH3+NH4	/ae√o	2.7	10.2	0	5.5	•	0	0	3.9
800	m	NA	άχ	ž	ΑN	₹N	Ϋ́	¥X	9:

C - Not Defected
NA - Not Analyzed
1997 ABCL = 1997. Sectember 15. Aquatic Bicassay Consulting Laboratory. The Marine Environment of Marina del Rey Harbor
July 1998 - June 1997.
COP Objectives = 1997. California State Water Resources Control Board. California Ocean Plan. Table B Water Quality Objectives. Dally Maximums for aquatic life

and 30-day Averages for human health.

COP Chronic Toxicity = 1997. California State Water Resources Control Board. California Ocean Plan. Table D Conservative Estimates of Chronic Toxicity.

Final CTR SW Criteria = 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Ortheria for Priority. Toxic Pollutants for the State of California.

Indicates exceeds criteria

Table A-5.2

Summary of 1996-1997 Plays Vista Water Quality Sampling Dry Weather - Santa Monica Bay

		1997 ABCL ABCL								
Parameter	Unita	1-2m SMB	2-0m SMB	2-2m Swa	2-4m SMB	t-0m SMB	1-2m SMB	1-4m SMB	2-om SMB	
		12/18/96	12/18/96	12/18/96	12/18/96	1/8/97	1/8/97	1/B/97	1/6/97	1/8/07
General										
Total Caliform	MPN/100m	XX.	1300 -	AN	NA	.0005	ΝA	ΑN	05	NA.
Fecal Coliform	MPN/1C0ml	₹Z	. 005	AN.	٧X	.009	ĄN	NA	Ç	NA
Enteropodous	Cors/100ml	٨N	- BO	NA	NA	22	NA	ΝΑ	67	ΑM
Sanity	00/0	33.06	30.71	32.64	32.95	30.2	33.2	33.27	32.9	32.99
Dissolved Oxygen	F-GE	7.46	7,62	7.38	7,31	71.7	6.98	7.14	7.52	7.41
돐	1	8.24	8.19	8.18	6.27	6'2	7.89	7.9	7.92	7.92
NH3+NH4	u-at/l	0	1.6	С		4.1	19.6	7	4.6	6.3
300	MgM	7,1	2.1	1.5	4.4	1.9	1.5	1.6	1.8	6.1

Notes:

0 - Not Defected

NA - Not Analyzed

NA - Not Defected

NA - Not Analyzed

Na - N

\* Indicates exceeds criteria

# Summary of 1895-1997 Playa Viste Water Quality Sampling Dry Weather - Santa Monica Bay ABCL

Parameter	Units	1997 ABCL ABCL 2-4m SMB	1997 ABCL ABCL 1-0m 8MB	1997 ABCL ABCL 1-2m SMB	1997 ABCL ABCL 1-4m SMB	1997 ABCL ABCL 2-0m SMB	1997 ABCL ABCL 2-2m SMB	1997 ABCL ABCL 2-4m SMB	1997 ABCL ABCL 1-0m SMB	1987 ABCL ABCL 1-2m
0.000	200.00	1/8/97	2/21/97	2/21/97	2/21/97	2/21/97	2/21/97	2/21/97	3/19/87	3/19/37
Total Collins										
	L SOLVE L	¥.	1100	¥Ν	Ϋ́	0	Ϋ́	¥	16000	άN
	MPNOCOL	ď.	٥	Ϋ́	N.A.	0	ž	ΨZ	1200	***
Enterococcus	Cal's/100ml	¥Z.	c	ΑN	₹2	C	444	V. V		4
Satinity	0000	35.Z6	30.93	32.38	38.89	\$2.10	90 00	4		N.Y.
Dissclved Oxygen	ļ.öĒ	7.33	8 69	8.75		2007	07.30	20,00	25.33	33.01
Ha		7 03		200	20.0	79.7	7.85	7.97	8.94	6.91
NHSHVAV		26	8.7	(.86	7.54	7.94	7.94	7.9	8.22	8.24
	L'ac'	9.0	0.77	14.2	7.7	10.8	15.9	15.9	5.5	1.6
	1/5	7	7.8	7.5	6.0	6 C	-	1.0		,

0 - Not Detected

NA - Not Malyzed

1997 ABCL = 1967 September 15. Aquatic Bloassay Const. ting Laboratory. The Marine Environment of Marine del Rey Harbor

1997 ABCL = 1967 September 15. Aquatic Bloassay Const. ting Laboratory. The Marine Environment of Marine del Rey Harbor

1997 ABCL = 1969 September 15. Aquatic Bloassay Const. Table Date 1997.

1997 Abcl. = 1997 Colifornia State Water Resources Control Board. California Ocean Pian. Table D Conservative Estimates of Chronic Toxicity.

1997 Abd CFR Part 131, Water Quality Standards. Establishment of Numeric Criteria for Priority Frail CFR Part 151, Water Quality Standards. Establishment of Numeric Criteria for Priority.

Summary of 1995-1997 Plays Vists Water Quality Sampling Dry Westher - Sants Monica Bay ABCL

		1997 ABCL	1997 ABCL							
		ABCL	ABCL							
Parameter	Units	2•0⊞	2-2m	2-4m		1-2H	Ę	2-0m	2-2m	2-4T
		SMB	SMB	SMB	SMB	SMB	SIMB	255	SMB	SMB
		3/19/97	3/19/97	3/19/97	57,1797	541/97	26/1/97	5/1/87	571/97	5/1/97
General									THE PARTY OF THE PARTY.	The second secon
Total Coliform	MPN/100ml	0	ΨN	Ϋ́N	ΑN	1200	άX	220	WAN	NA
Fecal Coliform	WPN/100ml	0	Α'n	Ą	¥X.	300	A.A.	ę	Ž	¥
Enterococcus	Ccl's/100ml	0	₹.	NA NA	A.K	0	¥'Z	٥	₹Z	NA AN
Salinity	00/0	33.36	33.32	33.42	33.43	31.8	33.43	33.25	33.47	33.56
Dissolved Cxygen	mg/i	3.66	4.97	9,24	6.37	8.36	8.82	7.69	8.05	3.75
PH	-	8,16	8.18	92'8	8.17	8.24	8.26	8.17	8.78	8.21
NH3+NH4	t-at/	0	0	0	8.0	4	9.0	0.8	0	0
800	mg/l	3.6	1.6	2.3	1.4	1.6	9.4	4.7	7.2	7.4

Not Defacted
 Not Analyzed
 1997 ABCL = 1897, Sexember 15. Aquatic Bicassay Consulting Laboratory. The Marine Environment of Marina del Rey Harbor
 1997 ABCL = 1897, Sexember 15. Aquatic Bicassay Consulting Laboratory. The Marine Environment of Marina del Rey Harbor
 COP Objectives = 1997. California State Water Resources Control Board. California Ocean Plan. Table B Water Quality Objectives. Daily Maximums for aquatic life and 30-day Averages for human health.
 COP Chronic Toxolive = 1997. California State Water Resources Control Board. California Ocean Plan. Table D Conservative Estimates of Chronic Toxolity.
 Find CPR SW Criteria = 2000. May 18. Factoral Register Volume 65, No. 97, 40 CFR Part 181, Water Quality Standards. Establishment of Numeric Criteria for Priority Indicates exceeds criteria.

# Summary of 1996-1997 Playa Vista Waler Quality Sampling Dry Weather - Santa Monice Bay

		1997 ABCL	1897 ABCL	1997 ABCL	1997 ABCL	1997 ABCL	1997 ABCL				
		ABCL	ABCL	ABCL	ABCL	ABCL	ABCL		Sait	Saltwater	
Parameter	Units	1	1-2m	Ž.	2-0m	ž.	E 7.				
		SMB	SWB	SMS	SMB	SAIB	SMB	,			
	-	6/2/97	6/2/97	6/2/97	6/2/97	6/2/97	6/2/97	Minimum	Maximum	Mean	Hita / Tota
General		Section of the second section of the section o			の の の の の の の の の の の の の の の の の の の	The second of th				2000	
Total Coliform	MPN/COM	0ê;	ΨN	NA NA	0	¥	ΑN	Q	18,000	1,330	8 / 22
Facel Coliform	MPN/1c0ml	110	NA	NA.	0	¥	NA	Q	2.400	273	8 / 22
Enterococcus	Co/s/100ml	0	NA	NA	0	Ź	ΑN	Q.	263	282	4 / 22
Sathrity	0,00	31,05	33.51	53.57	33.12	33.3	33.35	25.33	33.57	32.9	21 / 64
Disso ved Oxygen	lycu	58.3	96'9	5.84	95.5	6.71	68'9	5.54	9.54	7.78	21 / 64
Hđ	!	91.8	8.17	8.17	8.19	8.19	B.18	487	8.3	B.13	21 / 84
NH3+NH4	U-at/	10.3	6.1	2,5	0	20.2	29.1	Q	29.1	4.25	18 / 34
BOD	l/6m	3.3	2.8	2.4	3.6	3.1	33	2.0	9.4	2.45	:7 / 52

# Summary of 1997 Plays Vista Water Quellty Sampling Wet Weather - Ballona Channel - Saltwater Portion ABCL

Parameter	- Units	CTR Acute SW Criteria	1997 ABCL ABCL 12-0m	1997 ABCL ABCL 12-2m			Saltwater		
			Saliona Channel	Callona Channel	Minimum	nimum Maximum	Medin	EH:8	/ Total
Ganeral						Salar Salar			
Total Coliforn.	MPN/100ml	1	0	٧N	GN .	Q	Q	0	, ,
Fecal Coliform	MPN/100ml	ţ	٥	A.V	GN	QN	Ω	٥	1 /
Enterococcus	Col's/100ml	1	٥	A.A.	QN .	2	2	٥	1 1
Salinity	0,00	į.	26.47	33.07	26.47	33.07	29.77	2	, 2
Dissolved Oxygen	ľζ	1.	6.1	5.72	6.1	6.72	6.41	2	7
표		1	54.6	8.2	8.2	8,43	8.32	2	2 /
NH3+NH4	We-n	*	18.1	13.8	13.B	16.1	14,95	2	1 2
do <b>a</b> .	ľαm	ı	8.7	3.2	3.2	8.7	5.95	2	2 /
					j			£	

Not Detected
 Not Detected
 No. Not Detected
 No. Per Laboratory.
 No. Not Detected
 No. Per Laboratory.
 The Marine Environment of Marina del Ray Harboratory.
 July 1996 - June 1997.
 July 1996 - June 1997.
 Final OFTH SW Chiefia = 2000, May 18. Federal Register Volume 65. No. 97, 40 CFR. Part 131, Water Quality Standards, Establishment of Numeric Criteria tor Priority Toxic Pollutants for the State of Galifornia.
 Indicates exceeds any of the listed oriteria or guidance values.

Table A-5.4

Sunanary of 1997 Playa Vista Water Quality Sampling Wet Weather - Sents Monice Bay ABCL

		20			Γ	Γ	Γ	Γ	Γ	Γ	Γ
		/ To		7 2	7 2	2/2	2	2	2	9 /	8
		HIS		_	L	°	Ľ	S	_	9	ď
Saltwater		Mean		5	2	ş	32.62	6.36	8.30	7.87	2.72
Sal		Maximum		ଷ	22	2	33.41	3,55	8,35	22.6	3.4
		Minimum		GN.	S	ş	30.04	5.93	8.25	2.1	00
1997 ABCL ABCL	2-4m SMB	4,7797		ΑN	ΑN	ΑN	ΑΝ	NA	ΝΑ	5.2	2.4
1997 ABCL ABCL	SMB	4/1/97		NA.	ĄN	NA	33.24	6.55	9.25	22.6	2.2
1997 ABCL ABCL	SMB	4/7/97		50	50	٥	33.41	5.93	8.25	2.4	2.8
1997 ABCL ABCL	1.4m	47/97		ΑN	ΑN	NA	33,33	6.53	8.35	6.3	3.4
1997 ABCL ABCL	r2.7 SMB	477/97	A CONTRACTOR OF THE PARTY OF TH	NA	N.	Ϋ́	33.1	B.43	8.33	2.1	2.7
1997 ABCL ABCL	1-0m SMB	78/2/4		0	0	0	#0:0£	6.37	¥6.8	5.5	62
COP	Chronic Toxicity			-		t	1	1	1		ı
COP	Objectives		Age of the Control of	1000	200		-		1	-	1
CTR Acute	SW Critteria			-	J	_	1			-	ı
	Coits			MPN/100ml	M-PN-100mi	Colls/100ml	0000	mg/l	ı	u-atı"	(/Del
1	Perameter		General	Total Collicim	Fecal Coliform	Enteropodous	Sainity	Dissolved Oxygen	, PH	NH3+NH4	800

Notes;
0 - Not Detected
NA - Not Americal
NA - Not Americal
NA - Not Americal
NA - Not Americal
Na - Not Detected
July 1896 - June 1997.
COP Collections State Water Resources Control Board. California Ocean Plan. Table B Water Quality Objectives. Daily Maximums for aquatic file
and 30-day Averages for human health.
and 30-day Averages for human health.
Final CTR SW Offerial = 2000, May 18. Federal Register Volume 66, No. 97, 40 OFFR Part 131, Water Quelity Standards, Establishment of Numeric Oritaria for Priority Toxic Pollutants for the State of California.
Indicates exceeds any of the listed oriteria or guidance values.

Surunary of 1996
Plays Vista Sediment Quality Sampling
Ballona Channel - Sattwaler Portion

,			ABCL				
		NOAA	1997 ABCL ABCL		Salt	Saltwater	
Parameter	Q M	SQUIRT Marine Sediment PELs	) Bar			4	
		1999	7/1/96	Minimum	Maximum	Mean	Hits / Total
Jeneral Tribudultin			0.04		.00		,
Total Organia Carson	2		2 6	0.0	970	0.48	-
Volatite Solids			1.3	13	2	1.30	-
Immed, Oxygen Demand	*	-	0,25	0.25	0.25	0.25	1 / 1
Chem. Oxygen Demand	3º	1	1.62	1,62	1.62	1.62	1/1
Oil and Grease	mg/kg	J	350	350	350	350	1/1
Organic Nitrogen	mg/kg	1	170	170	021	170	171
Nitrogen	mg/kg	1	190	190	190	190	171
Nitrate	mg/kg	_	350	950	dee .	350	171
Orthophosphate	mg/kg		37	3.7	37	37	1/1
Sulfides	mg/kg		35	85	85	85	1/1
Moisture	%	l	24.4	24.6	24.4	24.40	1/1
Spec. Cond.	mahostom	1	26	26	58	28	1/1
Alkalinity as CaCO3	mg/kg	I	730	730	CEZ	730	1/1
Harchese as CaCO3	mg/kg	I	2200	2,200	2,200	2,200	1/1
Total Dissolved Solids	×	I	2.1	2.1	2.1	2.10	1/1
Calclum	mg/kg	I	10900	10,900	10,900	10,900	1/1
Chloride	mg/kg	I	8320	8,320	9.320	8,320	1/1
Fluoride	mgvkg	I	O	Q	2	2	1/1
Potassium	mgvkg		2150	2,150	2,150	2,160	1/1
Sufate	mg/kg		1100	1,100	1,100	1,100	1/1
Sodium	таука	1	5010	5,010	5,010	5,010	1/1
Aetals			San Branch St. No. 1, San St. Com. School	l et man i salvano e e			
Arsenic	mg/kg	41.6	3.1	3.1	3.1	3.10	1/1
Barium	mg/kg	48	41.1	41.1	41.1	41.10	1/1
Boron	mg/kg	1	6.03	6.03	8.03	6.03	1/1
Cadmium	mg/kg	4.21	0.€38	0.636	0.636	0.64	1/1
Chrcmlum	mg/kg	150.4	38.8	38.8	38.8	38.80	1/1
Copper	том	108.2	16	16	18	18	1/1
fron	gx/gm	1	16700	18,700	16,700	18,700	1/1
(aad_	mg/kg	112.19	125	125	125	125	1/1
Manganese	mg/kg	260	148	148	148	148	1/1
Mercury	mg/kg	0.696	0.084	0.064	0.064	0.06	1/1
Nickel	mgvkg	42.8	66.B *	6.89	688	66.9	1/1
Selenium	mg/kg	1	0.33	0.33	0.33	0.33	1/1
Säver	mg/kg	1.77	0.663	0.863	0.883	0.66	1/1
Zinc	ეგგე ე	271	121	121	121	121	1/1

# Summary of 1996 Plays Vista Sediment Quality Sampling Ballons Chemiel - Seltweter Portion ABCL

			1997 ABCL				
		NOAA	ABCL		Salt	Saltwater	
Parameter	Units	SQUIRT	2				
		Merine					
	_	Sediment PELS	Sediment PELS Ballona Channal				
		•					
		1999	3/1/196	Minimum	Maximum	Meen	Hits / Total
Pesticides and PCBs							
p.p. DDT	рдука	4.77	8	9	3	3.00	1/1
0,0 'Q.0	рд/ка	7.81	6.6	6.6	6.6	6.60	111
p,p' ÓOÉ	ng/kg	374.17	82	8.2	8.2	8.20	1/1
DDT & Derivetives	ugiko	51.7	17.8	17.8	17.8	17.80	1/1
Endrin Akdehyde	ug/kg	1	٥	Ð	2	QV	1/1
Haptachlor Epoxide	ug/kg	1	٥	2	2	Ð	1/1
alpha-Chlordane	ugvkg	1	9.6	6.8	6.6	8.60	1/1
gamma-Chlordane	6X/6ri	1	7.7	7.7	2.7	7.70	1/1
All remaining Pesticides	ugvkg	1	14.3	14.3	14.3	14,33	17.
Arochior 1254	53/ABri	188,79	8	X	50	23	1/1

Notes:

0 - Not Detected
A.A. - Not Detected
N.D. - Not Detected
N.D. - Not Detected
N.D. - Not Detected
P.E. - Probable Effects Level, level above which adverse effects are trequently expected
1967 A.B.C.L. = 1997, September 15, Aquatic Bioassey Consutting Laboratory. The Marine Environment of Marina del Rey
Harbor July 1996 - June 1997.

\*Buchman, M.F., 1989. NOAA Streening Quick Reference Tables, NOAA HAZMAT Report 99-1, Seattle, WA, Coastal Protection and Restoration Division, National Oceanie a \*Apparent Effects Threshold (AET) is used instead because PEL is not listed.
\*Indicates exceeds guidance values

#### Summary of 1996 Playa Vista Sediment Quality Sempling Santa Monica Bay ABCL

			1997 ABCL	1997 ABCL				
		NOAA	ABCL	ABCL		80	Sattwater	
Parameter	- Chita	SQUIRT	-	ca .				
		Marine Sediment	SMB	SMB				
		751.8						
	:	1989	7/1/96	7/1/96	Minimum	Maximum	Mean	Hits / Total
General								
Tributyltin	mg/kg	ı	0.005	0.01	0.005	0.01	8000	2 / 2
Total Organic Carbon	3.0	!	5.33	19. *	0.33	1.6	C.97	2/2
Volatile Solids	<u>ئ</u>	1	0.8	4	6:0	#	2.40	2/2
Immed, Oxycen Demand	89		D.13	0.95	0.13	0.95	0.54	2/2
Chem. Oxygen Demand	88		0,73	3.1	6.73	3.1	1.32	2/2
Oil and Grease	30kg	1	120	250	120	250	185	2/2
Organic Nitrogen	mg/kg	1	280	630	230	DE6	580	2/2
Nkrogen	marks	-	240	840	240	940	590	2/2
Nkraha	mg/kg		9.9	4,7	9	7	9	212
Orthophosphate	DQ,KO	-	28	7	14	26	20	2/2
Sullides	mg/kg	1	145	340	145	340	242.5	2/2
Moisture		1	27	36.8	27	36.8	31.9	2/2
Spec. Cond. ( mmhos/cm)	mmhos/cm		28	35	26	×	29	2/2
Alkalinity as CaCO3	marka	-	380	1100	360	1,100	730	2/2
Hardness as CaCO3	ma/ka		2500	3300	2.500	3,830	2.900	2 / 2
Total Dissolved Solids	3.		1.6	2.2	1,6	2.2	1.90	2/2
Calcium	marka	1	18100	14600	14,600	18,100	16,350	2/2
Potassium	mg/kg	1	1470	3290	1,470	3,290	2,380	2/2
Chloride	mg/kg	1	6750	23430	6,750	23,400	15,075	2/2
Fluoride	gγ/gπ	j	o	0	2	S	ģ	0 7 2
Sulfate	Бубш	. 1	974	2910	874	2,910	1,942	2/2
Scdium	mg/kg	ŀ	4410	9110	4,410	e.110	6,260	2/2
Metais								
Arsenic	mg/kg	41.6	2.5	4. 6.	2.5	4.3	3.40	2/2
Barlum	gy/gm	48	34.2	6:3*	34.2	6.3	47.75	2/2
Boron	mg/kg		82.3	17.7	5,23	17.7	11.47	ᅰ
Cadmium	5y6w	4.21	C.283	0.794	0.283	0.794	0.54	2/2
Chromium	Dy/Cu	160.4	41	34.7	17	34.7	25.85	2/2
Copper	g%gm	108.2	9.01	29.3	10.8	29.3	19.95	2/2
tron	mg/kg	;	14700	21700	14,700	21,700	18,200	2/2
Lead	mg/kg	112.18	56.1	90.6	56.1	90.6	68.35	2/2
* Manganasa	mp/kg	280	145	202	145	207	176	2/2
Mercury	mg/kg	9.698	0.112	0.136	0.112	0.186	0.12	2/5
Nickel	mg/kg	42 B	8.57	18.6	8.57	18.6	13.59	2/2
Selenium	mg/kg		6.0	0.6	0.3	0.6	0.45	2/2
Silver	mg/kg	1.77	0.287	0.938	0.287	0.938	0.81	2/2
Zire	mg/kg	271	19	181	61	181	121	2/2

# Summary of 1996 Plays Vists Sediment Quality Sampling Santa Monics Bay ABCL

		A A CO	1997 ABCL	1997 ABCL					
Parameter	C n#	SQUIRT	-	ABCL 2		S.	Saltwater		
		Marine Sediment PELs *	SWB	SMB					
		1999	77/196	771/96	Minimum	Maximum	Mean	E I	Total
Pesticides at PCBs					THE STREET WAS A STREET	ST. 321.03	200 CO	S3500	CANADA
P.P. DDT	by/6rt	4.77	c	10	CN	0.00	5.00%		
GGG ,d'd	DQ/OD	7.81			2 ,	2 5	3		,
900,00g	- V	1, 110			1	200	3.03	2	2
DOT 9 Deliveren		/ 1/2	4	12	4	12	00.00	~	
CDI S Deliveranes	ng,ka	51.7	9	27.3	9	27.3	15.65	~	~
Endrin Aldehyde	ug/kg	4	0 -	0	ş	S	Ş		,
Heptachlor Epokide	µg.∕kg	i	0.3	2.5	0.3	2.5	5		
alpha-Chlordane	pg/kg	1	0	9	Ş	-	9		1
gamma-Chlordane	ру/ка		2.7		2.0	, "	3 8	-	V,
All remaining Pesticides	ig/kg		φ2	14.5		,	3 4	1	
Arpchior 1254	Joyka	188 79	8	Ş	, ;		200		2
		-	^1	2	3	3	9	N	-

Violes of Not Desected
O · Not Desected
NA · Not Analyzed
NA · Not Not Analyzed
NA · 
#### Appendix A-6 GeoSyntec Existing Data

# Playa Vista Water Quality Sampling Dry Weather - Ballona Wellands GeoSyntec Summary of 2000

Parameters	5 E	CTR Chronic SW Criteria	2000 GS GeoSynlec B-1	2000 GS GeoSyntec B-3		קם	Dry Weather		
			Attended Drain	Sait Marsh Effluent 4/13/00	Minimum	Movimien	Moon	1415	,
General						WESSEL TO SELECT		0100 V	0.0
Total Herdness	T/Gm	1	620	5650	620	5.650	11.00 (S)		10. oc. 20.04596
Hydrogen Sulfide	mg/L	-	o	0	Ş	S CZ	2 2		,,
Toc	J/6w	1	7.3	0.6			2		,,
NOCs						J	0	/ 2	2
Senzane *	LO/L	7.1	0	Ĭ	10 A		C. W. C.		
Acetone	7/611	i		- 20	2	-	٥	-	ou l
MTBE	yon	1			2	2	2	-	Q
Toluene *	100	200		3	2	2	₽	0	CV.
Merals	1000	220,000	0	0	Q	Q	ę	/ 0	CA1
Dissolved Aptimony	Luci Luci	oj.							
Total Antimony	100			0		2	Q	0 /	
Dissclyed Arsenic	1 / 2	96		٥	2	2	2	70	2
Total Arrenic	1,0	GC.	4.20	12.3	4	12	3	7 7	~
Dissolved Borium	, O.	,	3.18	5.5	9	9	4	7 2	_
Total Ratium	100		73,1	35,5	96	73	54	7 2	2
Disaphod Bourill im			79.7	41.2	41	8	- 60	1.2	~
Total Repulling	1	1	٥	0	QΝ	QN	Q.	0	2
Deschart Coming			0	0	ÛN	QN	9	6	~
Total Outmins		6,8	C	0	QN	QV	Ş	0	64
Organization Office and Office an		1	0	0	QN	ĝ	₽	0	~
DISSOIVED CORONIUM	Total	ည်	0	C	άN	Ð	£	٥	
Total Chromicm	μgγ	, J	201	3.68	-	4	,	,	Ţ.,
Dissolved Cocalt	HQ/L	1	0	0	2	Q	Ę	•	
Total Cobalt	μg/L		0	0	Q.	2	2 5		
Dissolved Copper	_ rg₁r	3.1	5.06		4				]
Total Copper	ng/L	1	50.6	22.8	, %	ī	- 10	,	,
Disselved Lead	1,5n	8.1	1,2	0.01	<b>1</b>		۶	1	
Total Lead	7,611		2.01	8.41	-	2 0	,		
Disselved Mercury	ا/وب	1	0	· ·	1/2	9	, [		
Total Mercury	, γoη	1	a	ò	Ş	2 5	2 2		
Dissolved Molybdanum	7,67	1	8.78	12	-	2 -	2 5		
lotal Molybdanum	12	ı	9.78	12.4	2	2	-	1	
D ssaved Nicker	1/5/1	9.5	2.27	4.26	2	4		1	
TOTAL MICKE	7,61	-	3.69	5.23	7	5	-	•	
Haring Selection	į.	-	9.82	48.4	10	48	58	2	
Disastruct Cities			6.59	13.5	7	14	₽	2	
Total Bitter	1,61	,	0	0	Q.	2	ş	/ 0	
Discoult of The History	1,6	,	0	0	DN	2	£	-	
Total Treatment	100	-	٥	٥	QN	2	₽	0	
local (nallium)	101	1	0	0	ş	Ş	2		
Dissolved vanadium	101	1	4.47	4.39	•	4	4		Ţ
lotal vanadium	1001	,	5.1	8.24	9	60	-	-	Ţ
Dissolved Zinc	1,01	8.	38.7	16.4	10	66	82	7	Ţ
l other Zinc	HgV.	1	72.9	34.7	35	73	S	7	
NOIGE:									

2000 GS = 2000. GeoSynteo Consultants. Data.
Final CTR SW Criteria × 2000, May 18. Federal Register Volume 65, No. 97, 40 CFR Part 131, Water Cuality
Sandards, Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California.

\*CTR criteria are from human health organisms only oriteria.

<sup>b</sup> The value for Hexavaieni Chromlum was used for chromlum

0 - Not Detected NA - Not Analyzed ND - Not Detected

\* Indicates exceeds any of the listed criteria or guidance values.

# Summary of 2000 Playa Vista Water Quality Sampling Wat Weather - Ballona Wetlands GeoSyntec

SW Criteria	Paramatara	4		2000 GS	2000 GS					
September   Sept		Ē	SW Orferia	GeoSynlec B-1	GeoSyntec B-3		₩	Wet Wealher		
Mail Hatchess				Jefferson Drain	Salt March Effluent					
Mail Platchess   Mg4	Gereval	WAST COMMON TO	made and a contract of the con	00/11/40	4/17/00	Minimum	Maximum	Mean	Hills	Tops
Mail Hardness   Magh    Hydrogen Stilling	2000						SA 55.55	100		
1980	Total Hardness	TO SE	'	ΑN	0.1	5.1	0.1	()::::::::::::::::::::::::::::::::::::		-
Section   Sect	100	MQ'L	1	346	0861	346	0861	1182		-
Second Solids		1	***	8.43	8.02	8	200	3	-	N
Size	Specific Conductance	umhosycm	1	1310	20503		2 2 2 2	٥		. │
Table State	201	ጣያሴ	2	6.6	44	26.	36,0	10905	-	۰,
The cooling that the	lotal Suspended Solids	Hg/L	1	187	2.3	0.5	0.0	٥	-	~
Section   Sect	oldity	mg/L		141	36	2 8	è	130	-	دی
Section   1974					20	25	141	88	,	2
Section   Sect	E	וומער		å						
Internation	thetats		\$155° \	WARREST CORRESPONDENCE OF THE PROPERTY OF THE	1,1	1.1	1.1	-	-	-
Selving Arsen c	Total Antimony	[4]	A 100							
te Arsenio         Hg/L         Code         6.79           secved Barium         Hg/L         4.73         16.6           secved Barium         Hg/L         110         31.8           secved Chromium*         Hg/L         110         31.8           secved Chromium*         Hg/L         11.7         2.18           secved Chromium*         Hg/L         3.25         7.18           secved Chromium*         Hg/L         4.8         3.26         7.18           secved Chromium*         Hg/L         4.8         3.26         7.18           secved Neivbdanum         Hg/L         4.16         5.1         4.27           solved Neivbdanum         Hg/L         7.4         2.23         2.74           solved Seenium         Hg/L         7.4         2.23         2.74           solved Seenium         Hg/L         7.4         2.23         3.28           solved Seenium         Hg/L         2.0	Dissolved Arsenic		03	-	NA.	-	-	ķ	2	-
1974   1974   1974   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975	Tota, Arsenic		a	3.02	6.79	9.02	6.79	2	-	_
18   18   18   18   18   18   18   18	Dissolved Barium			4.73	7.06	4.73	7.06	9	-	2
Selbed Chromium	Total Barium	100		3	16.6	18.6	64	31	-	_
Section   Sect	Dissolved Chromium	1 9		100	31,8	31.8	551	99		_
State   Stat	Total Chrom.um			4.37	2.18	2.18	4.37	ေ	-	2
Salved Copper	Total Coogh	3		11.7	3.3	3.3	11.7	00	-	,
Section   Sect	Dissolved Copper	100		3.59	1.46	1,45	3.59	,	-	
13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5   13.5	Total Concer	100	2.4	3.25	7.19 *	3.25	7.19		-	
17.6   12.9   12.9   12.9   12.9   12.9   12.9   12.9   12.9   12.9   12.9   12.9   12.9   12.9   12.9   12.9   12.9   12.9   12.1   12.9   12.1   12.9   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1   12.1	Total Lead		1	24.6	13.5	13.5	24.6	B.	-	2
e/ Mc/pdenum         µg/L         —         4.18         5.1           B Solved Nickel         µg/L         74         2.23         2.74           B Nickel         µg/L         2.90         4.78         4.27           Solved Selenium         µg/L         2.90         4.78         23.3           B Selenium         µg/L         2.43         2.1           B Selenium         µg/L         2.23         3.28           B Vanadáum         µg/L         3.28         7.82           B Vanadáum         19.6         3.28         7.82           B Vanadáum         19.9         14.6         7.82	Dissolved Molybdanum	170		17.6	12.9	12.9	17.6	15	-	 
solved Nickel         µg/L         74         2.50         5.2           al Nickel         µg/L         2.90         4.78         2.23           solved Selenium         µg/L         2.90         4.78         2.33           al Selenium         µg/L         2.43         2.1           boxed Variadium         µg/L         2.43         2.1           boxed Variadium         µg/L         -         5.2         3.28           boxed Variadium         µg/L         -         5.2         7.62           solved Variadium         µg/L         -         5.2         7.62           solved Variadium         µg/L         -         9.0         18.9         14.4           al Zino         µg/L         -         131         20.0         14.4	Total Mclybdenum	1/01		2 2	5,1	4.19	5.1	2	-	~
al Nickel         Light         2.74         2.74           solved Selenium         Light         2.90         4.78         4.27           al Selenium         Light         2.43         23.3           solved Vincatium         Light         2.43         21.           1 Sind Zino         Light         3.28         3.28           1 Sino         Light         9.0         18.9         14.6           1 Sino         Light         131         20.0	Dissolved Nickel	Von		950	5.2	96 07	5.2	4	-	2
Solved Selenium         Jag.         290         4.77         4.27           4.78         4.27         4.27         4.27           4.20         4.78         23.3         21           200         4.78         21         21           200         190         2.43         21           200         190         2.22         7.82           200         190         194         14.6	Total Nickei	l)on		57.5	2.74	2.23	2.74	2	-	~
al Selenium         Lg/L         250         4.78         23.3           solved Vanadium         Lg/L         2.43         21           al Vanadium         Lg/L         5.2         3.28           al Vanadium         Lg/L	Dissolved Setenium	1 (VI)	1 8	200	4.27	4.27	9.84		-	2
Solwed Variation up/L — 243 21 21 21 21 21 21 21 21 21 21 21 21 21	Total Salenium	3 0	767		23.3	4.78	23.3	72	-	
1 Nanadaum 1904 - 5.2 3.28 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2	Dissolved Vanadium			2.43	21	2.43	21	12	-	
Sedwad Zirio 1904 90 22,2 7.82 12,no 1904 - 131 14,6	Total Vanadkum		1	5.2	3.28	3.28	5.2	4	-	1
12/no 14/6	Dissolved Zine		1 6	22.2	7.62	7.62	22.2	15	-	Ţ
131	Total Zino	1	6	6,81	14.6	14.6	19.6	11	-	
	Notes	1		131	29.2	29.5	131	Ş		Ţ

O · Not Detected
NA · Not Analyzed
NA · Not Analyzed
NA · Not Analyzed
ND · Not Detected
2000 GS = 2000. GeoSynteo Consultants. Data.
Final CTR SW Chiferin = 2000, May 18. Federal Register Volume 65. No. 97, 40 CFR Part 131, Water Quality Standards, Establishment of Numeric Criteria
Final CTR SW Chiferin State of State of Carifornia.
\* The value for hexavalent Chromium was used for chromium
\* Indicates exceeds any of the Isted oriteria or guidance values.

## Pieya Vista Sediment Quality Sampling Ballona Wetlends Summary of 2000 GeoSyntec

Parameters	Unite	. <u>.</u> .	2000 GS GeoSynlec	2000 GS GeoSynlec	2000 GS GeoSyntec		Solice	Soli/Sadiment		Г
		SOUIRT	Composite B-3 Sait Marsh Effluent	Composite B-3 Salt Marsh Effluent	Composite 8-45D					
		Marine Sediment				-				
		1999	4/13/00	4/13/00	4/13/00	Minimum	Maylenen	Mater	, ,	Ţ;
Uenera)	· · · · · · · · · · · · · · · · · · ·				THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO PERSONS OF THE PERSON NAMED IN COLUMN TWO PERSONS OF THE PERSON NAMED IN COLUMN TWO PERSONS OF THE PERSON NAMED IN COLUMN TWO PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TRANSPORT NAMED IN COLUMN			-		
20	mg/kg	1	5350	0490	Daos I	A 20.00	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Arramatical Control		11/10/2
VOCs			以 · · · · · · · · · · · · · · · · · · ·		NO.	CODE	5350	3207	3/3	
Acelone	power	1	ž	A.A.	State 11	(X)				
Benzene	pa/kg	1	Ϋ́Z	WA	S ur	<u> </u>	2	2	0	1
Carbon Disulfide	полка		ΑN	1		2 62	2	2 9	-	7
p-Isopropylloluene	ng/kg	J	ΨZ	47		2	2	2	-	Ţ
m.p-Xylene	ng/kg	1	AN	872		2	2	2	0 1	٦
Toluene	no/ka		MA	C.	3	Q.	₽	Q.	0 / 1	
Metals		(1.00 KZ)		*******	7.9	7,9	7.9	7.9	1 / 1	
Total Antimony	morke									
Total Arsenic	mg/kg	41.6	4.21	200	2620	2	0.563	0	2 / 3	7
Total Barlum	marka	L	- 671	0 11	90.7	623	4.21		8 / 3	7
Tota: Beryllium	шg/kg		0.837	2000	147	47.3	147	112.43	3/3	
Total Cadmium	mg/kg	1	2.24	0.958	0.90	0.217	0.851	0.42	6 / 8	П
Total Chromium	maka		264	7.00	*1.50	0.355	2.24	1.13	e / e	
* Total Cobalt	maka	ę	7.68	4.1.1	23.2	11.4	26.4	20.83	3 / 3	П
Total Copper	ma'ka	Ĺ	0.00	0.44	8.27	3.44	8.27	6.46	3 / 3	
Total Lead	щока		252	14.1	19.5	14.1	54.9	29.50	3/3	
otal Marcury	maka		7010	ζω.	<b>9</b> 2	20.7	258	111.57	3/3	
Total Molybdenum	E C		1 50	0.00	0	₽	0.184	90.0	1/3	Π
Total Nickel	οχάμ	42.8	2004	197	0.31	0.31	1.54	111	3/3	П
Total Selenium	D) P)			00-1	10.0	7.68	50.4	14.95	3/3	П
Total Silver	Dyko	_	121	0 400		2	9	2	0 / 8	٦
Total Thallium	⊒0\ka		0.923	204.0	0.464	0.402	1,21	0.69	3 / 3	
Total Vanadium	OXOL	57	201	271.0	0.376	0.177	0.376	0	3/3	Π
	TO VO		250 1	8.71	7.28	17,9	32.7	- 22	8 / 3	Γ
		25030	ACC	54.6	48	54.6	359	181	8/3	T
	no.ko	0000								ु
4.4.DDE	1: DVRG	ľ			0	Q Z	2	Ş	0 / 3	Г
4,4-DOT	S C	F. 7		3 (	0	2	NO.	ON.	e / 0	Г
Arochlar-1260	οχοπ	188.79	>	3	6.9	2	6.9	2.30	1/3	Г
Chlordane	, u	2 7		35	0	2	85	30.E7	1 / 3	Г
Notes:			64	c	0	QN	æ	28	6	Т
										7

Vers.

On Not Detected

NA - Not Analyzed

ND - Not Detected

ND - Not Detected

ND - Not Detected

ND - Not Detected

PEL - Probable Effects Level, savel above which adverse effects are traquently expected

2000 GS = 2000. GeoSymter Consultants. Data.

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Protection and Restoration Division, National Oceanic and Atmospheric Administration, 12 pages.

Apparent Effects Threshold (AET) is used instead because PEL is not listed

Indicates exceeds any of the listed criteria or guidance values.

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	a Vista Area A and Area B Wetlands Surface Water and Sediment raft. October 27, 1998.

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Appendix C Water Quality Control Plan -Los Angeles Region Section 2



# WATER QUALITY CONTROL PLAN Los Angeles Region

#### Adopted by

California Regional Water Quality Control Board, Los Angeles Region on June 13, 1994.

Approved by

State Water Resources Control Board on November 17, 1994.

State Office of Administrative Law on February 23, 1995.

California Regional Water Quality Control Board, Los Angeles Region 101 Centre Plaza Drive Monterey Park, CA 91754

> Telephone (213) 266-7500 Fax (213) 266-7600

#### 2. BENEFICIAL USES

#### **Table of Contents**

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Inland Surface Waters	2-4
Ground Waters	2.4
Coastal Waters	2-4
Wetlands	2-4

#### Introduction

Beneficial uses form the cornerstone of water quality protection under the Basin Plan. Once beneficial uses are designated, appropriate water quality objectives can be established and programs that maintain or enhance water quality can be implemented to ensure the protection of beneficial uses. The designated beneficial uses, together with water quality objectives (referred to as criteria in federal regulations), form water quality standards. Such standards are mandated for all waterbodies within the state under the California Water Code. In addition, the federal Clean Water Act mandates standards for all surface waters, including wetlands.

Twenty-four beneficial uses in the Region are identified in this Chapter. These beneficial uses and their definitions were developed by the State and Regional Boards for use in the Regional Board Basin Plans. Three beneficial uses were added since the original 1975 Basin Plans. These new beneficial uses are Aquaculture, Estuarine Habitat, and Wetlands Habitat.

Beneficial uses can be designated for a waterbody in a number of ways. Those beneficial uses that have been attained for a waterbody on, or after, November 28, 1975, must be designated as "existing" in the Basin Plans. Other uses can be designated, whether or not they have been attained on a waterbody, in order to implement either federal or state mandates and goals (such as fishable and swimmable) for regional waters. Beneficial uses of streams that have intermittent flows, as is typical of many streams in southern California, are designated as intermittent. During dry periods, however, shallow ground water or small pools of water can support some beneficial uses associated with

intermittent streams; accordingly, such beneficialuses (e.g., wildlife habitat) must be protected throughout the year and are designated "existing." In addition, beneficial uses can be designated as "potential" for several reasons, including:

- implementation of the State Board's policy entitled "Sources of Drinking Water Policy" (State Board Resolution No. 88-63, described in Chapter 5).
- plans to put the water to such future use,
- potential to put the water to such future use,
- designation of a use by the Regional Board as a regional water quality goal, or
- public desire to put the water to such future use.

#### Beneficial Use Definitions

Beneficial uses for waterbodies in the Los Angeles Region are listed and defined below. The uses are listed in no preferential order.

Municipal and Domestic Supply (MUN)
Uses of water for community, military, or individual

water supply systems including, but not limited to, drinking water supply.

#### Agricultural Supply (AGR)

Uses of water for farming, horticulture, or ranching including, but not limited to, irrigation, stock watering, or support of vegetation for range grazing.

Industrial Process Supply (PROC)

Uses of water for industrial activities that depend primarily on water quality.

#### Industrial Service Supply (IND)

Uses of water for industrial activities that do not depend primarily on water quality including, but not limited to, mining, cooling water supply, hydraulic conveyance, gravel washing, fire protection, or oil well re-pressurization.

#### Ground Water Recharge (GWR)

Uses of water for natural or artificial recharge of ground water for purposes of future extraction, maintenance of water quality, or halting of saltwater intrusion into freshwater aquifers.

- Santa Catalina Island, Subarea One, Isthmus Cove to Catalina Head
- Santa Catalina Island, Subarea Two, North End of Little Harbor to Ben Weston Point
- Santa Catalina Island, Subarea Three, Farnsworth Bank Ecological Reserve
- Santa Catalina Island, Subarea Four, Binnacle Rock to Jewfish Point

The following areas are designated Ecological Reserves or Refuges:

- Channel Islands National Marine Sanctuary
- Santa Barbara Island Ecological Reserve
- Anacapa Island Ecological Reserve
- Catalina Marine Science Center Marine Life
- Point Fermin Marine Life Refuge
- Farnsworth Bank Ecological Reserve
- Lowers Cove Reserve
- Abalone Cove Ecological Reserve
- Big Sycamore Canyon Ecological Reserve

#### Rare, Threatened, or Endangered Species (RARE)

Uses of water that support habitats necessary, at least in part, for the survival and successful maintenance of plant or animal species established under state or federal law as rare, threatened, or endangered.

Migration of Aquatic Organisms (MIGR)
Uses of water that support habitats necessary for migration, acclimatization between fresh and salt water, or other temporary activities by aquatic organisms, such as anadromous fish.

#### Spawning, Reproduction, and/or Early Development (SPWN)

Uses of water that support high quality aquatic habitats suitable for reproduction and early development of fish.

#### Shellfish Harvesting (SHELL)

Uses of water that support habitats suitable for the collection of filter-feeding shellfish (e.g., clams, oysters, and mussels) for human consumption, commercial, or sports purposes.

### Beneficial Uses for Specific Waterbodies

Tables 2-1 through 2-4 list the major regional waterbodies and their designated beneficial uses.

These tables are organized by waterbody type: (i) inland surface waters (rivers, streams, lakes, and inland wetlands), (ii) ground water, (iii) coastal waters (bays, estuaries, lagoons, harbors, beaches, and ocean waters), and (iv) coastal wetlands. Within Table 2-1 waterbodies are organized by major watersheds. Hydrologic unit, area, and subarea numbers are noted in the surface water tables (2-1, 2-3, and 2-4) as a cross reference to the classification system developed by the California Department of Water Resources. For those surface waterbodies that cross into other hydrologic units, such waterbodies appear more than once in a table. Furthermore, certain coastal waterbodies are duplicated in more than one table for completeness (e.g., many lagoons are listed both in inland surface waters and in coastal features tables). Major groundwater basins are classified in Table 2-2 according to the Department of Water Resources Bulletin No. 118 (1980). A series of maps (Figures 2-1 to 2-22) illustrates regional surface waters, ground waters, and major harbors.

The Regional Board contracted with the California Department of Water Resources for a study of beneficial uses and objectives for the upper Santa Clara River (DWR, 1989) and for another study of the beneficial uses and objectives the Piru, Sespe, and Santa Paula Hydrologic areas of the Santa Clara River (DWR, 1993). In addition, the Regional Board contracted with Dr. Prem Saint of California State University at Fullerton to survey and research beneficial uses of all waterbodies throughout the Region (Saint, et al., 1993a and 1993b). Information from these studies was used to update this Basin Plan.

State Board Resolution No. 88-63 (Sources of Drinking Water) followed by Regional Board Resolution No. 89-03 (Incorporation of Sources of Drinking Water Policy into the Water Quality Control Plans (Basin Plans)) states that "All surface and ground waters of the State are considered to be suitable, or potentially suitable, for municipal or domestic waters supply and should be so designated by the Regional Boards ... [with certain exceptions which must be adopted by the Regional Board]." In adherence with these policies, all inland surface and ground waters have been designated as MUN - presuming at least a potential suitability for such a designation.

These policies allow for Regional Boards to consider the allowance of certain exceptions according to criteria set forth in SB Resolution No. 88-63. While

Wetlands also are protected under the Clean Water Act, which was enacted to restore and maintain the physical, chemical, and biological integrity of the nation's waters, including wetlands. Regulations developed under the CWA specifically include wetlands "as waters of the United States" (40 CFR 116.3) and defines them as "those areas that are inundated or saturated by surface or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions." Although the definition of wetlands differs widely among federal agencies, both the USEPA and the U.S. Army Corps of Engineers use this definition in administrating the 404 permit program.

Recently, both state and federal wetlands policies have been developed to protect these valuable waters. Executive Order W-59-93 (signed by Governor Pete Wilson on August 23, 1993) established state policy guidelines for wetlands conservation. The primary goal of this policy is to ensure no overall net loss and to achieve a long-term net gain in the quantity, quality, and permanence of wetland acreage in California. The federal wetlands policy, representing a significant advance in wetlands protection, was unveiled by nine federal agencies on August 24, 1993. This policy represents an agreement that is sensitive to the needs of landowners, more efficient, and provides flexibility in the permit process.

The USEPA has requested that states adopt water quality standards (beneficial uses and objectives) for wetlands as part of their overall effort to protect the nation's water resources. The 1975 Basin Plans identified a number of waters which are known to include wetlands; these wetlands, however, were not specifically identified as such. In this Basin Plan, a wetlands beneficial use category has been added to identify inland waters that support wetland habitat as well as a variety of other beneficial uses. The wetlands habitat definition recognizes the uniqueness of these areas and functions they serve in protecting water quality. Table 2-4 identifies and designates beneficial uses for significant coastal wetlands in the Region. These waterbodies are also included on Tables 2-1 and 2-3. Beneficial uses of wetlands include many of the same uses designated for the rivers, lakes, and coastal waters to which they are adjacent, and include REC-1, REC-2, WARM, COLD, EST, MAR, WET, GWR, COMM, SHELL, MIGR, SPWN, WILD and often RARE or BIOL.

As some wetlands can not be easily identified in southern California because of the hydrologic regime, the Regional Board identifies wetlands using indicators such as hydrology, presence of hydrophytic plants (plants adapted for growth in water), and/or hydric soils (soils saturated for a period of time during the growing season). The Regional Board contracted with Dr. Prem Saint, et al. (1993a and 1993b), to inventory and describe major regional wetlands. Information from this study was used to update this Basin Plan.

#### Appendix D Stormwater Rainfall Analysis (URSGWC)



#### **URS** Greiner **Woodward Clyde**

#### Memorandum

To:

Tony Skidmore

Playa Vista EIS Team

From:

Eric Strecker

Jim Howell

Office:

Portland

Date:

November 3, 1998

Subject:

Playa Vista Stormwater Rainfall Analysis

#### Introduction

Presented is a summary of an analysis of the National Climactic Data Service (NCDC) hourly rainfall measurements from the National Weather Services' Los Angeles International Airport (LAX) weather station. The purposes of this analysis were threefold:

1. to provide rainfall depths which would be expected to contribute to runoff for the purpose of analyzing pre- and post-project stormwater quality,

2. to develop a rainfall characterization for a general description of the Playa Vista project and its environment and,

3. to develop information on larger storms to estimate their impact on the amount and frequency of freshening of the saltwater marsh.

#### Methodology

Hourly rainfall statistics from the LAX weather station for the years 1948 to 1997 were obtained from the NCDC. This information was input into the EPA's SYNOP statistical rainfall analysis program. The program aggregates the hourly data into individual storm events and develops storm statistics. The SYNOP program calculates the storm duration, volume, and intensity for individual storms as well as the mean and coefficient of variation. Inputs to the model include selecting the inter-event time to be used to separate individual rainfall hours into storm events as well as a minimum event size to analyze for the summary statistics. For this analysis an interevent time of 6 hours (EPA, 1989) and a minimum storm size of 0.10 inches were used. This results in rainfall hours separated by less than 6 hours being aggregated into a single storm event. Storm events equal to and less than 0.10" on average are not expected to contribute significantly to runoff.

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November 3, 1998

#### Results

All storm events were first considered by running the SYNOP with the minimum volume set to 0.0". Table 1 provides a summary of storm statistics as calculated by the SYNOP model for all storm events. "DELTA" represents the time interval between storm midpoints. COEF-VAR is the coefficient of variation, which is the standard deviation of the data set divided by the mean. The coefficient of variation provides an indication of the variability of the data.

Table 1: Average Event Statistics for LAX (all storm events)

STORM		MINIMUM	MAXIMUM	AVERAGE	COEF-VAR
DURATION	(hrs)	1	101	8.06	
INTENSITY	(in/hr)	0.0029	0.3173		
VOLUME	(in)	0.01	7.44	0.0110	1.6
DELTA	(hrs)		<u> </u>	335.42	
NUMBER OF STORMS per YEAR		17	57	30	0,2

Table 2 provides a similar summary of annual average storm statistics for all of the storms greater than 0.10 inches of total precipitation.

Table 2: Average Event Statistics for LAX (events greater than 0.10 in)

STORM		MINIMUM	MAXIMUM	AVERAGE	COEF-VAR
DURATION	(hrs)	1	101	11.78	0.83
INTENSITY	(in/h	0.0083	0.3173	0.0624	0.72
VOLUME DELTA	(in)	0.1	7.44	0.67	
	(hrs)			649.78	
NUMBER OF STORMS per YEAR	<b>l</b>	7	39	17	0.35

From this analysis, there is an average of 17 storm events per year greater than 0.1 inches in total depth. An average contribution of 0.67 inches of rainfall can be expected from each of the storms.

Figure 1 provides a graphical description of the total yearly precipitation at LAX for the years 1949 to 1997. Displayed is the total yearly precipitation for all events as well as the total from just the events greater than 0.10 in. in depth.

Figure 2 shows the average monthly precipitation for all storms and for storms with total depths greater than 0.10 in. over the same time period.

Figure 3 presents an historical record of all storm events greater than 0.10 inches in depth between 1948 and 1997. This information was generated by the SYNOP program using a 6-hour or greater dry period to separate rainfall hours as being from separate storm events.

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Figure 4 shows a frequency plot of all recorded storm depths between 1948 and 1997, a total of 1448 events. The storms are grouped into intervals of 0.10 inches. The left-hand axes shows the number of storms and the right-hand the relative percent or probability that a storm event will have a given depth.

Figure 5 is an analysis of total rainfall volume by storm event depth. All of the storms between 1949 and 1997 were considered in this analysis. The series labeled "Cum Depth from X" gives the total depth of rainfall generated from storms less than or equal to the magnitude given on the X axis. The series labeled "Cum Depth from  $X + I^{st} X$  of Storms > X" provides the total depth (and cumulative percentage) of rainfall that was generated by the  $I^{st}$  fraction of the storm indicated by the value on the X axis. The final series gives the cumulative percentage of rainfall generated by the storm fraction on the X axis. This analysis will be used to determine the minimum cumulative percentage of runoff that would be detained in the freshwater marsh and other detention basins designed t detain a storm of a given depth.

From the 49-year data set, the ten largest storms have been identified. Table 3 gives the date, duration, volume, average and maximum intensity for the ten largest storms. Figure 6 shows a plot of the total volume of the storms. Note that the durations of these storms are typically relatively high compared to the average storm volumes. This analysis will be utilized to assess the potential volume and frequency of freshening of the salt marsh by evaluating the capacity of the freshwater marsh vs. rainfall depth.

The return period for storms of various magnitudes were estimated using the relative frequency data presented in Figure 4. Table 4 gives the expected depths for 1, 5, 10, and 50 year storms. It should be noted that this analysis is not based upon some subjectively chosen duration (e.g. 24 hours) and therefore will differ from analysis that do so. (e.g., Los Angles City Design Storms, etc.)

Table 3: Event Statistics for 10 Largest Storms Recorded at LAX 1948-1997

DATE	DURATION (hours)	VOLUME (inches)	AVERAGE INTENSITY (inches/hr)	MAXIMUM INTENSITY (inches/hr)
1/25/56	50	7,44	0.15	0.53
2/19/58	11	3.49	0.32	0.6
2/7/62	49	4.94	0.1	0.49
2/9/63	46	4.21	0.09	0.43
11/20/67	38	6.07	0.16	0.97
3/7/68	17	3.54	0.10	
1/18/69	52	5.03		0.89
1/3/74	101	5.16	0.1	0.72
3/28/83	54		0.05	0.36
1/4/95	·	3.47	0.06	0.43
., ., ., .	17	3.5	0.21	0.99

### URS Greiner Woodward Clyde

November 3, 1998

Table 4: Return Period for 1, 5, 10, and 50 Year Storms at LAX Based on 1948-1997 Data

Return Period	(yrs)	1	5	10	50
Estimated Volume	(inches)	2	3.5	5	7,5

The analysis showed that 93% of rainfall from storms greater than 0.10"in the Los Angles area fell between the months of November and April. The program was re-run using only the data from these months. Table 5 shows the results of this analysis.

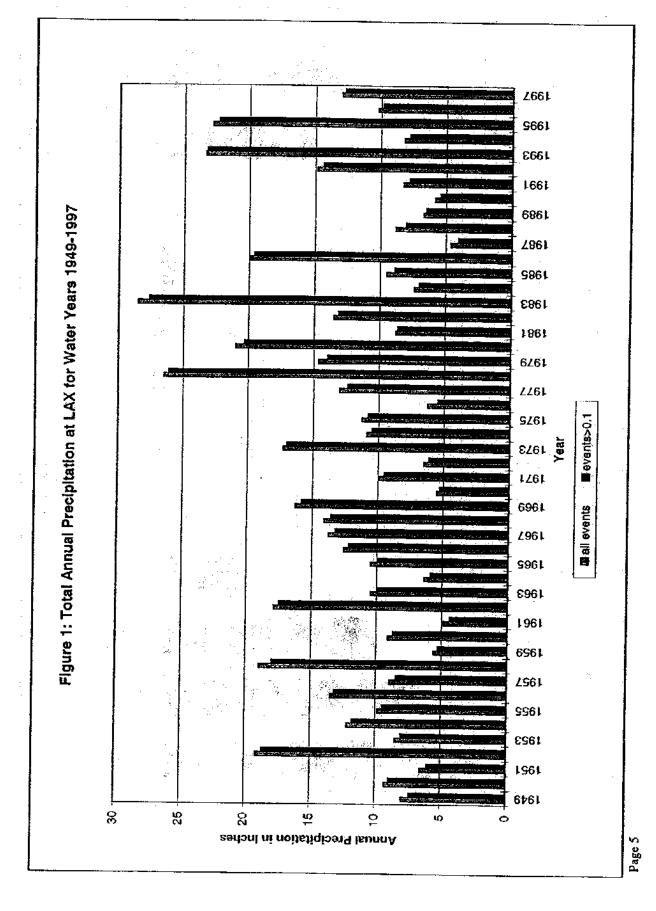
Table 5: Average Event Statistics for LAX Wet Season Only (November to April)

STORM		MINIMUM	MAXIMUM	AVERAGE	COEF-VAR
DURATION	(hrs)	1.0	101	12.09	0.82
INTENSITY	(ìn/h	0.0083	0.3173	0.0619	
VOLUME	(in)	0.1	7.44	0.69	
DELTA	(hrs)			214.84	1.24

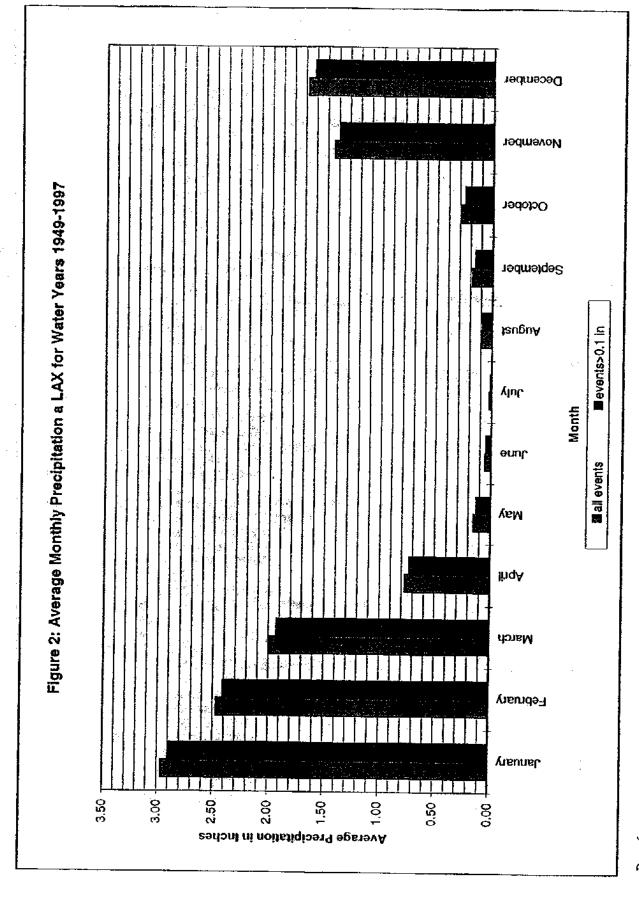
#### Summary

Following are the major results of this analysis for purposes of stormwater analyses for the EIS:

- 1. For purposes of pollutant load modeling, the total average rainfall depth from storms of more than 0.10 inches is 11.66 inches.
- 2. The average volume and intensity of storms larger than 0.10 in. are 0.67 inches and 0.0624 inches per hour respectively.
- 3. From historical data analyzed with the STNOP model, there are on average 17 storm events of 0.10 inches or greater recorded at the LAX weather station per year.
- 4. The majority of these storms, and of rainfall depth (93 percent), occur between the months of November and April.
- 5. There is data to determine the amount of rainfall associated with storms of a given volume for purposes of assessing the potential detention of runoff from detention based best management practices, including the freshwater marsh.
- 6. Data is available to assess the return frequency of larger storm based upon their total volume and on the 10 largest events for purposes of assessing hydrological impacts of the project.



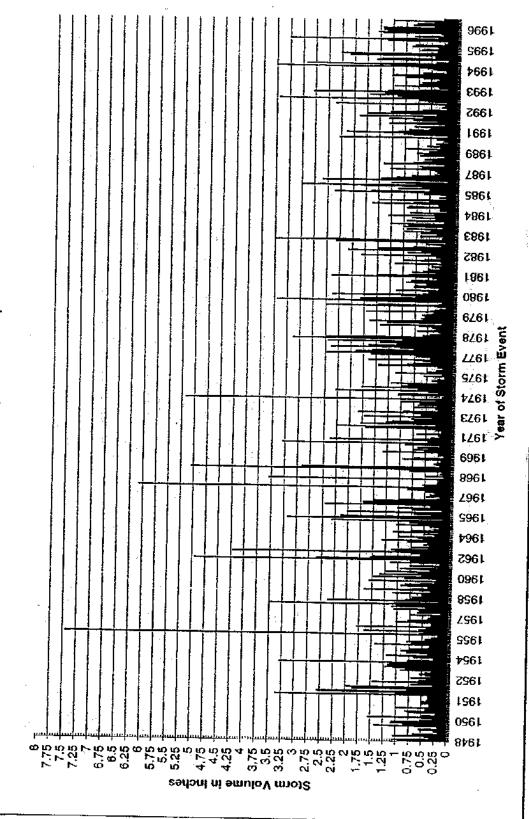
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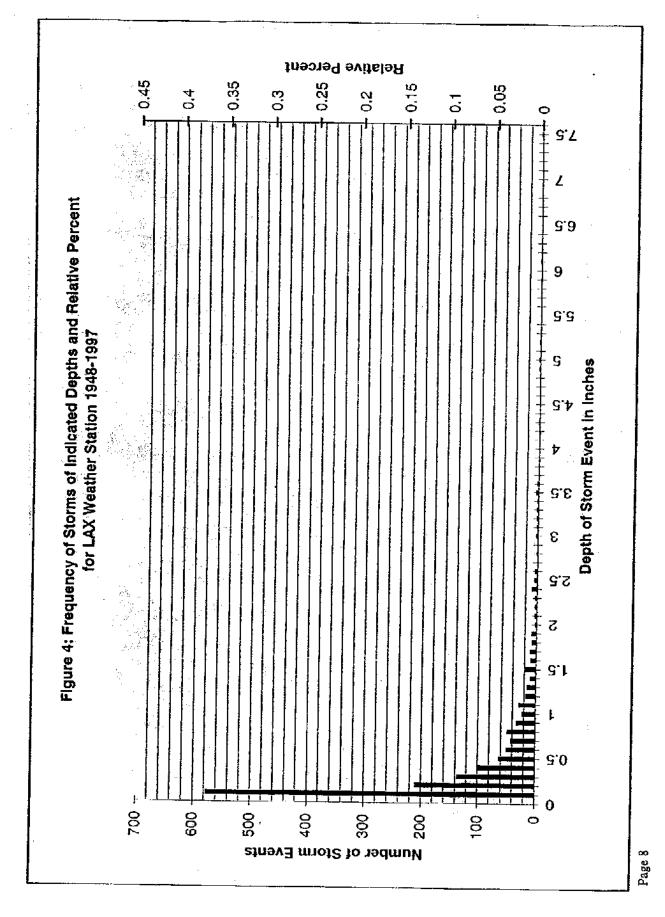
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Figure 3: Individual Storm Volume in Inches for LAX Weather Station 1948-1997 (storm depths 0.10 in.+)

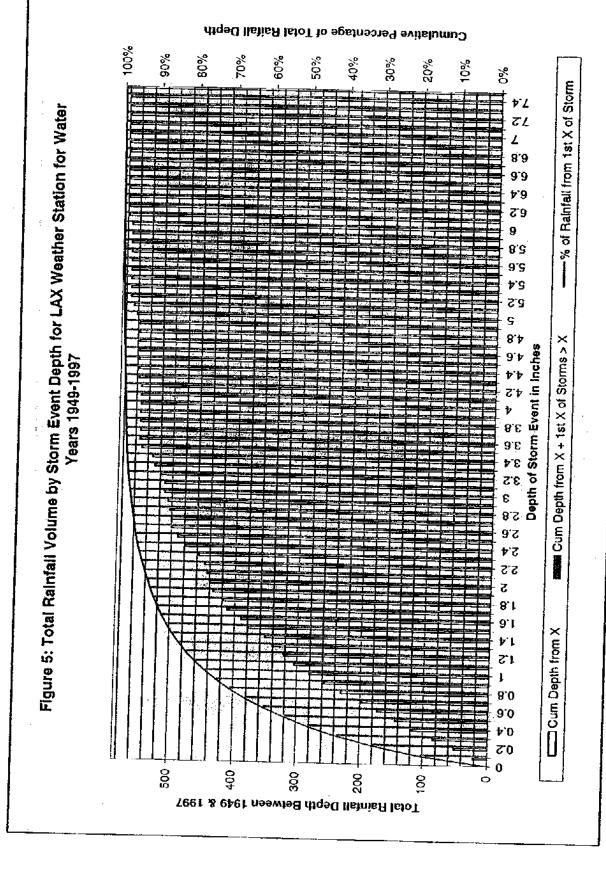


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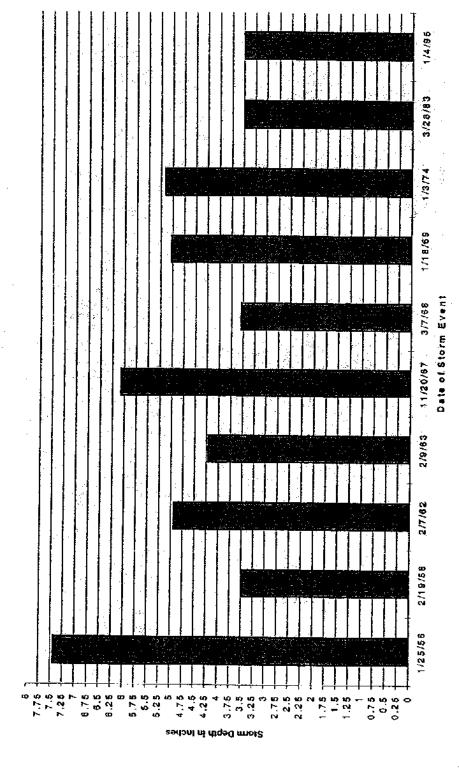
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Appendix E Stormwater EMC Analysis (GeoSyntec Consultants)



#### Introduction

For the purposes of assessing the potential impacts of the Proposed Village at Playa Vista on stormwater and resulting receiving water quality, a model was developed to predict changes in runoff volumes, pollutant loads and resulting concentrations (see Appendix F for a full description of the model input and output). The model utilizes average land use runoff concentrations along with hydrology calculations.

Estimated pollutant concentrations are necessary to:

- Quantify existing loads and concentrations to the Ballona Wetlands and the Ballona Creek Estuary
- Estimate runoff quality for the selection and design of appropriate treatment technologies, and
- Model after First Phase and after Proposed Project pollutant loads and concentrations for the purposes of assessing potential impacts of the Proposed Project

The most accurate estimates of pollutant concentrations are based on the analysis of stormwater sampling information collected during monitoring programs conducted near or at the project site. However, due to the variable nature of runoff concentration data, it almost always takes several years to collect enough data to produce statistically significant results. More commonly, average pollutant concentrations estimated in published historical studies are applied. Several sources of information for estimating land use water quality are available. National average pollutant concentrations for land use types were estimated in Nationwide Urban Runoff Program's Final Report published in 1983. Similar information was provided by the Federal Highway Administration for Highway related runoff in 1984. More recently, a number of municipalities have conducted stormwater monitoring programs including LA County, which has conducted stormwater-monitoring programs since 1996. Seven pollutants were identified in the First Phase EIR as being particularly important to the project and appropriate for modeling analysis. These pollutants included: total suspended solids(TSS), total phosphorus(TP), total Kjeldahl nitrogen(TKN), total copper(TCu), total lead(TPb), total Zinc(TZn), and total oil and grease.

# Description of the LA County Stormwater Monitoring Program

The Los Angeles County Stormwater Monitoring Program was initiated with the goal of providing technical data and information to support effective watershed stormwater quality management programs in Los Angeles County. Specific objectives of this project included monitoring and assessing pollutant concentrations from specific land uses and watershed areas. In order to achieve this objective, the County undertook an extensive stormwater sampling project that included 7 land use stations and 5 mass emission stations, which were

tested for 82 water quality parameters. These data were published in the Los Angeles County 1994-2000 Integrated Receiving Water Impacts Report.

The land use monitoring stations capture runoff from smaller watersheds (0.1 to 1 square mile) with relatively homogeneous land use, Mass Emission Stations monitored runoff from major drainage areas near their outfall to the ocean. At both of these station types, flows were measured and automated samplers were installed to collect and composite stormwater samples during storm events. For the purposes of modeling, only the data from the land use monitoring sites were utilized. Furthermore only data from developed land uses that were similar to the uses anticipated for the Proposed Project were selected to the extent possible (i.e. data from stormwater monitoring of a commercial site by LA County is used to represent stormwater concentrations from commercial areas within the proposed development). A description of the land use stations monitored in the LA County program of which land use EMC data were utilized in the model and the years monitored by water year are provided in Table 1.

Table 1: Land Use Stations Monitored in the LA County Monitoring Program

Station Name	Station	Modeled Land Use	Drainage Area (acres)	Site Description	Years Monitored
Santa Monica Pier	S08	Commercial	0.13	The monitoring site is located near intersection of Appian Way and Moss Avenue in Santa Monica. The storm drain discharges below the Santa Monica Pier. Catchment area is approximately 81 acres. The Santa Monica Mall and Third St. Promenade dominate the watershed with remaining land uses consisting of office buildings, small shops, restaurants, hotels and high-density apartments.	1996-1999
Project 1202	S24	Industrial	1.07	Located in the Dominguez Channel/Los Angeles Harbor Watershed in the City of Carson. The monitoring station is near the intersection of Wilmington Avenue and 220th Street.	1996-2000
Sawpit Creek	S11	Open Space (Vacant)	5.18	Located in Los Angeles River watershed in City of Monrovia. The monitoring station is Sawpit Creek, downstream of Monrovia Creek. Sawpit Creek is a natural watercourse at this location. Catchment area is approximately 3300 acres.	1996-2000
Project 620	S18	High Density Single Family Residential	0.26	Located in the Los Angeles River watershed in the City of Glendale. The monitoring station is at the intersection of Glenwood Road and Cleveland Avenue. Land use is predominantly high-density, single-family residential. Catchment area is approximately 120 acres.	1996-2000

<sup>1</sup> http://ladpw.org/wmd/npdes/9400\_wq\_summaries.zip

Table 1: Land Use Stations Monitored in the LA County Monitoring Program

Station Name	Station	Modeled Land Use	Drainage Area (acres)	Site Description	Years Monitored
Dominguez. Channel	S23	Freeway (Roads)	1.35	Located within the Dominguez Channel/Los Angeles Harbor watershed in Lennox, near LAX. The monitoring station is near the intersection of 116th Street and Isis Avenue. Land use is predominantly transportation and includes areas of LAX and Interstate 105.	1996-2000

#### Data Analysis

Data analysis conducted by Los Angeles County substituted values equal to half the laboratory detection limit in order to estimate descriptive statistics (e.g. mean and standard deviation) for event mean concentrations (EMCs) for each monitored pollutant at each land use monitoring station. These summarized data are reported in Table 4-12 of the Los Angeles County 1994-2000 Integrated Receiving Water Impacts Report. While substituting half the detection limit is a common practice due to its ease of implementation, this method is known to introduce bias into the estimates for both the mean and standard deviation.<sup>2</sup>

Previous studies have suggested that stormwater pollutant runoff concentrations tend to be logarithmically distributed.<sup>3</sup> If the distribution of a data set is known, values below the detection limit can be estimated using a maximum likelihood estimator.<sup>4</sup> For this evaluation, the individual event mean concentrations (raw data) for each of the land use monitoring sites in Table 1 were obtained from the Los Angeles Department of Public Works Watershed Management Division/NPDES Section.

Detection limits for the modeled pollutants are shown in Table 2 below. In an effort to derive more robust estimates of EMCs for the modeled pollutants, a maximum likelihood estimator method was used to analyze the monitoring data. This method ranks the log-transformed data above the detection limit, arbitrarily assigns ranks to the below the detection limit data, and extrapolates to estimate probable values of data below the detection limit using the Weibull plotting position formula. These values are then used with the detect data to estimate the descriptive statistics. As described in the Los Angeles County 1994-2000 Integrated Receiving Water Impacts Report, the majority of pollutants from the monitored

<sup>&</sup>lt;sup>2</sup> Singh, A.K., A. Singh, and M. Engelhardt (1997). "The lognormal distribution in environmental applications." EPA Technology Support Center Issue, EPA 600-R-97-006.

<sup>3</sup> ASCE and WEF (1998). Urban Runoff Quality Management, WEF Manual of Practice No. 23 and ASCE Manual and Report on Engineering Practice No. 87. Water Environment Federation and the American Society of Civil Engineers.

<sup>&</sup>lt;sup>4</sup> Helsel, D.R. and R.M. Hirsch (1993). Studies in Environmental Science 49: Statistical Methods in Water Resources. Elsevier Science B.V., Amsterdam, The Netherlands.
<sup>5</sup> The Weibull plotting position formula is p=r/(n+1), where p is the probability or plotting position, r is the rank, and n is the total number of data points, both above and below the detection limit.

land uses are best characterized with a lognormal distribution, so all data sets were analyzed assuming the lognormal distribution. Using this assumption, the probability of a concentration value occurring can be assigned to each event in the log-converted data set (including the non-detect values). If the probability of the pollutant concentration occurring is plotted against the log of the concentration for the events above the detection limit (based on the probabilities assigned using the entire data set), a line can be fit to the data above the detection limit and the slope and intercept can be calculated. The slope corresponds to the standard deviation of the data set and intercept corresponds to the median. From these parameters station mean concentrations can be calculated using the statistical relationships between central tendency and error that exist for log-converted data. A mean calculated in this manner would take into account the non-detect values as if each was assigned an actual value based on the distribution of the data set. Again, from the calculated log transformed data means and variances, the population arithmetic means and arithmetic standard deviations can be calculated for each of the parameters.

Table 2: Monitoring Data Detection Limits and % of Detects for Modeled Parameters & Land Uses

% Detects & DL	TSS	TP	TKN	Oil & Grease	Tot Cu	Tot Pb	Tot Zn
Land Use / DL	2 mg/L	0.05 mg/l.	1.0gm 1.0	1 mg/L	5 ug/L	5 ug/L	50 ng/L
Transportation	100%	99%	100%	100%	100%	42%	
Light Industrial	100%	95%	100%	80%	100%		100%
HDSF Residential	98%	100%	100%			31%	100%
		<del>                                     </del>	100%	100%	95%	45%	54%
Commercial	100%	97%	97%	88%	100%	38%	100%
Vacant	98%	48%	100%	0%	15%	8%	13%

#### Results

Tables 3 and 4 below provide a summary of the mean stormwater runoff pollutant concentrations calculated from the land use stations from the LA County stormwater monitoring data. These values represent the summarized data from all of the sampling events for each station, which were log transformed and adjusted for non-detects as described earlier. The amount of data available for oil and grease, one of the seven contaminants identified in the EIR as being significant to the project, was very limited (less than 8 events from most of the land uses). Therefore, the maximum likelihood method was not employed for this parameter and the summarized values provided in the Los Angeles County 1994-2000 Integrated Receiving Water Impacts Report were used and are displayed in tables below.

Table 3: Estimated Arithmetic Mean EMC Values for Modeled Parameters & Land Uses

TSS	TP	TKN	Oil & Grease	Tot Cu	Tot Pb	Diss Zn
mg/L	mg/L	mg/L	mg/L	ug/L	ug/L	ug/L
39.4	0.295	1.05	3.10	34.0	3 52	173
67.6	0.399	3.11	<del> </del>			<u> </u>
177.8	0.308	2.28				239
119.5	0.407	2.99		·		335
223.6	0.124		<del></del>			73.2
	mg/L, 39.4 67.6 177.8 119.5	mg/L mg/L 39.4 0.295 67.6 0.399 177.8 0.308 119.5 0.407	mg/L         mg/L         mg/L           39.4         0.295         1.05           67.6         0.399         3.11           177.8         0.308         2.28           119.5         0.407         2.99	mg/L         mg/L         mg/L         mg/L           39.4         0.295         1.05         3.10           67.6         0.399         3.11         3.28           177.8         0.308         2.28         1.70           119.5         0.407         2.99         1.30	mg/L         mg/L         mg/L         mg/L         ug/L           39.4         0.295         1.05         3.10         34.0           67.6         0.399         3.11         3.28         34.8           177.8         0.308         2.28         1.70         27.8           119.5         0.407         2.99         1.30         15.7	mg/L         mg/L         mg/L         mg/L         ug/L         ug/L           39.4         0.295         1.05         3.10         34.0         3.52           67.6         0.399         3.11         3.28         34.8         20.8           177.8         0.308         2.28         1.70         27.8         18.2           119.5         0.407         2.99         1.30         15.7         8.76

Table 4: Estimated Arithmetic Standard Deviations for Modeled Parameters & Land Uses

Land Use	TSS	ТР	TKN	Oil & Grease	Tot Cu	Tot Pb	Tot Zn
Transportation	26.0	0.164	0.418	1.46	10.7	4.82	62.7
Light Industrial	134	0.262	1.53	1.16	23.3	79.7	163.8
HDSF Residential	160	0.314	2.82	0.30	9.4	12.9	61.8
Commercial	48.9	0.336	3.25	1.68	30.8	168	· · · · · ·
Vacant	1567	0.411	0.939	0	18.9	1.18	154.5

Not all of the planned land uses are represented in the tables above. Therefore for the purposes of modeling, the average values from the commercial and residential land uses will be used for the proposed mixed commercial/residential land use areas, low density residential will be conservatively assumed to be equal to the high density residential.

#### Discussion and Conclusion

The average event mean pollutant concentrations calculated from LA County's raw land use EMC data are generally less than the mean values reported in the Los Angeles County 1994-2000 Integrated Receiving Water Impacts Report, but are generally closer to the median values. This is because the raw data tend to be positively skewed, such that the median is a better indicator of the data's central tendency than the mean, and if the data are lognormal (one type of distribution that is positively skewed) the log-transformed mean using lognormal theory (the method used to estimate the values in Table 3) is the minimum variance unbiased estimate of the data's central tendency. Furthermore, utilization of the below the detection limit values using the maximum likelihood estimator provides a more robust estimate of the descriptive statistics than substituting ½ the detection limit for all non-detects. Based on these factors, the results of the data analysis shown above are believed to provide more accurate estimates of land use-based EMCs for the purposes of modeling pollutant loads from the Proposed Project than simply using the summarized data in the Los Angeles County 1994-2000 Integrated Receiving Water Impacts Report.

Appendix F Pollutant Loading Model Spreadsheet Results (GeoSyntec Consultants)



#### Introduction

The pollutant loading model developed for the Proposed Project at Playa Vista utilizes the land use EMCs summarized in Appendix E, as well as effluent quality data from structural stormwater best management practices (BMPs) included in the National Stormwater BMP Database<sup>1</sup> for estimating pollutant removals in both on-site BMPs and the Freshwater Wetlands System. The model is a spreadsheet model developed in Microsoft<sup>®</sup> Excel. A complete description of the model methodology is described in Section 3, Volume I of the Water Resources Technical Appendix. Model flow diagrams of the routing of stormwater runoff for pre-First Phase, after First Phase, and after the Proposed Project, as well as the BMPs used for stormwater treatment as part of the First Phase and Proposed Projects are shown in Figures F-1, F-2, and F-3, respectively. The model input and output data are described in the next subsections.

#### Input Data

The primary input data needed for the model include:

- 1. Land use acreages,
- 2. Percent imperviousness for each land use type,
- 3. Average annual rainfall (see Appendix D),
- 4. Land use EMCs (see Appendix E), and
- 5. Pollutant removal estimates for each type of planned BMP

The percent imperviousness values are used to calculate the runoff coefficient for each land use type, which together with the land use acreages and the average annual rainfall volume, the total annual runoff volumes can be estimated. Tables F-1, F-2, and F-3 are the pre-First Phase, First Phase, and Proposed Project land use acreages, respectively, that were used in the pollutant loading model. As discussed in Section 3.2.4.3.1-Model Methodology of Volume I of the Water Resources Technical Appendix, the average annual rainfall used in the model is 11.66 inches. The EMCs and percent imperviousness (and corresponding runoff coefficient) for each land use type are included in Table F-4.

As mentioned in Section 3.2.4.3.1-Model Methodology of Volume I of the Water Resources Technical Appendix, due to a statistically insignificant amount of data for dissolved metals in the L.A. County dataset for all of the modeled land uses, runoff EMCs for dissolved metals were estimated from fractionation values. These fractionation values were derived from the L.A. data with significant data points (i.e., commercial and high density single family residential from Table 4-12 of the Los Angeles County 1994-2000 Integrated Receiving Water Impacts Report) and the influent data for retention ponds, biofilters, and wetland channels included in the NSW BMP Database (raw data presented in next section). The fractionation values used in the model are included in Table F-5.

The Proposed Project includes several planned BMPs, such as roof-drain planter boxes, vegetated swales, catch basin inserts, and the Freshwater Wetlands System (the Riparian

<sup>1</sup> www.bmpdatabase.org

# Pollutant Loading Model – Spreadsheet Results (GeoSyntec Consultants)

Corridor and the Freshwater Marsh). In addition, the California Department of Transportation installed an off-site CDS unit in the Lincoln Storm Drain prior to its connection with the Freshwater Marsh and a vegetated swale on Lincoln Boulevard that is tributary to the Central Storm Drain. These BMPs are accounted for in the model by using either percent removals (for catch basin inserts) or effluent quality data (for all other BMPs) reported in the NSW BMP Database for BMPs that are assumed to perform similarly to the planned BMPs. Since there is not sufficient data in the database for roof-drain planter boxes, they are assumed to perform similarly to biolilters, which includes both vegetated swales and vegetated buffer strips. Therefore, the effluent quality of the roof-drain planter boxes is assumed to be equivalent to the effluent quality of vegetated swales. The flow diagrams (Figures F-1 through F-3) provide the percent removals and effluent quality concentrations for each of the BMPs, as well as estimated pollutant removals for the degraded Centinela Ditch and the Ballona Wetlands. The next section provides details on the NSW BMP Database data used to derive the effluent quality data for each of the modeled BMPs.

# National Stormwater BMP Database Effluent Quality Analysis

For all estimates of BMP performance, summarized data from the NSW BMP Database were utilized.<sup>2</sup> Data from four different types of BMPs were extracted from the summarized database: retention ponds (i.e., wet ponds), wetland channels, biofilters (i.e., grass swales and strips), and hydrodynamic separators. The summarized data provided log-transformed arithmetic means and standard deviations for concentrations of each pollutant and BMP study site. The median of all of the site means were calculated and used as the BMP effluent quality for each pollutant and BMP type. Table F-6 includes the summarized retention pond influent and effluent data, Table F-7 includes the summarized wetland channel influent and effluent data, Table F-8 includes the summarized biofilter influent and effluent data, and Table F-9 includes the summarized hydrodynamic separator influent and effluent data

# Model Output

The pollutant loading model calculates average annual runoff volumes and loads, as well as annual average concentrations, from Proposed Project areas, adjacent First Phase Project areas, and off-site areas for pre-First Phase conditions, after buildout of First Phase, and after buildout of the Proposed Project. The model also calculates loads and concentrations after treatment in both on-site and off-site BMPs. The following discussion of model results is divided according to pre-First Phase, Playa Vista First Phase Project, and the Proposed Project.

# Pre-First Phase Model Results

Table F-10 provides the average annual runoff volumes for pre-First Phase conditions from the primary tributary areas to the primary receiving water bodies: the Freshwater Marsh and the Ballona Wetlands. Note that prior to the First Phase Project the Jefferson Storm Drain

<sup>&</sup>lt;sup>2</sup> ASCE 2002. Internal Draft Analysis of the ASCE/EPA NSW BMP Database, 9/9/02. Prepared by GeoSyntec Consultants, Inc

# Pollutant Loading Model – Spreadsheet Results (GeoSyntec Consultants)

was directly tributary to the Ballona Wetlands. With the runoff volumes and the runoff EMCs presented in Appendix E, estimated average annual loads for each of the seven modeled pollutants (total suspended solids, total Kjeldahl nitrogen, total phosphorus, oil & grease, total copper, total lead, and total zinc) were calculated and are shown in Tables F-11 through F-17. As mentioned previously, dissolved metals loads are calculated using fractionation values (Table F-5) and are presented in the summary loads table (Tables F-18). Note that this table includes estimated pollutant removal in the degraded Centinela Ditch and the Ballona Wetlands. Estimated annual average pollutant concentrations are shown in Table F-19

# After Playa Vista First Phase Project Model Results

Table F-20 provides the average annual runoff volumes for after the adjacent Playa Vista First Phase Project. Using these runoff volumes and the land use-based EMCs, pollutant loads were calculated for the seven primary pollutants of concern. Removal of pollutants in the off-site Jefferson Blvd. bioswale (tributary to the Central Drain) and the off-site Lincoln Blvd. CDS unit are accounted for prior to summing loads in their respective storm drains. Tables F-21a and F-21b present the estimated total suspended solids loads generated and removed, respectively, prior to entering the storm drain system. Similarly, Tables F-22a and F-22b present the total phosphorus loads generated and removed, Tables F-23a and F-23b present the total Kjeldahl nitrogen loads generated and removed, Tables F-24a and F-24b present the oil and grease, Tables F-25a and F-25b present the total copper loads generated and removed, Tables F-26a and F-26b present the total lead loads generated and removed, and Tables F-27a and F-27b present the total zinc loads generated and removed. The loads generated and the loads removed are added together and summarized in Table F-28. This table also includes removal in catch basin inserts, the Riparian Corridor, and the Freshwater Marsh. Estimated annual average concentrations are summarized in Table F-29.

# After Proposed Project Model Results

Table F-30 provides the average annual runoff volumes for after the Proposed Project. Using these runoff volumes and the land use-based EMCs, pollutant loads were calculated for the seven primary pollutants of concern. Similar to the First Phase, removal of pollutants in the off-site Jefferson Blvd. bioswale (tributary to the Central Drain) and the off-site Lincoln Blvd. CDS unit, as well as the additional on-site BMPs such as the roof-drain planter boxes for all buildings in the Central Drain tributary area and the vegetated swale in the Riparian Corridor tributary area, are accounted for prior to summing loads in their respective storm drains. Tables F-31a and F-31b present the estimated total suspended solids loads generated and removed, respectively, prior to entering the storm drain system. Similarly, Tables F-32a and F-32b present the total phosphorus loads generated and removed, Tables F-33a and F-33b present the total Kjeldahl nitrogen loads generated and removed, Tables F-34a and F-34b present the oil and grease, Tables F-35a and F-35b present the total copper loads generated and removed, Tables F-36a and F-36b present the total lead loads generated and removed, and Tables F-37a and F-37b present the total zinc loads generated and removed. The loads generated and the loads removed are added together and summarized in Table F-38. This table also includes removal in eatch basin inserts, the Riparian Corridor,

# Pollutant Loading Model – Spreadsheet Results (GcoSyntec Consultants)

August 11, 2003

and the Freshwater Marsh. Estimated annual average concentrations are summarized in Table F-39.

#### **Concluding Remarks**

A detailed discussion of the model results is presented in Section 3, Volume I of this Technical Appendix. The pollutant loading model has been used to assess potential impacts to receiving waters as a result of the Proposed Village at Playa Vista. It was developed specifically for the Proposed Project using local land use pollutant concentration data, as well as summarized national BMP performance data. The land use-based EMC data collected by the County of Los Angeles has been thoroughly analyzed using state-of-the-practice techniques for environmental data. The water quality treatment assumed in the model is based on best available BMP performance data that has been thoroughly reviewed and summarized in accordance with American Society of Civil Engineers (ASCE) and Environmental Protection Agency (EPA) quality assurance and quality control protocols. Therefore, the results of the model are believed to accurately represent average water quality conditions in the runoff from Proposed Project areas and adjacent Playa Vista First Phase Project areas, as well as off-site areas tributary to the Freshwater Wetlands System, Ballona Wetlands, and Ballona Channel.

<sup>&</sup>lt;sup>3</sup> ASCE and EPA (2002). Urban Stormwater BMP Performance Monitoring: A Guidance Manual for Meeting the National Stormwater BMP Database Requirements. EPA-821-B-02-001.

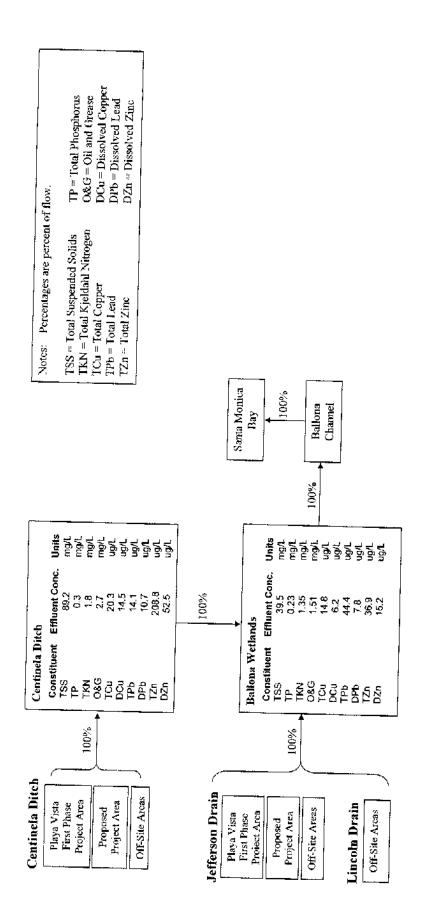


Figure F-1. Model flow diagram for existing conditions prior to the First Phase Project.

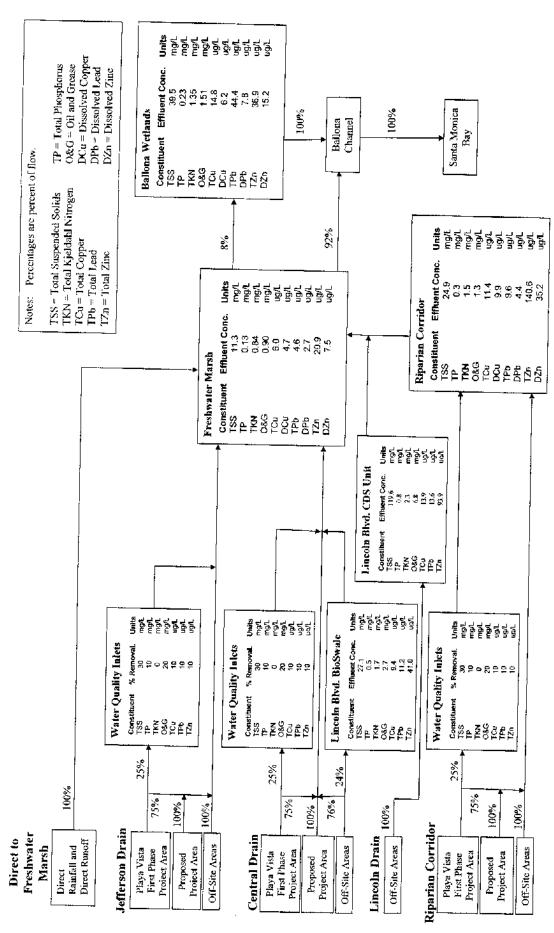


Figure F.2. Model flow diagram for after First Phase Project.

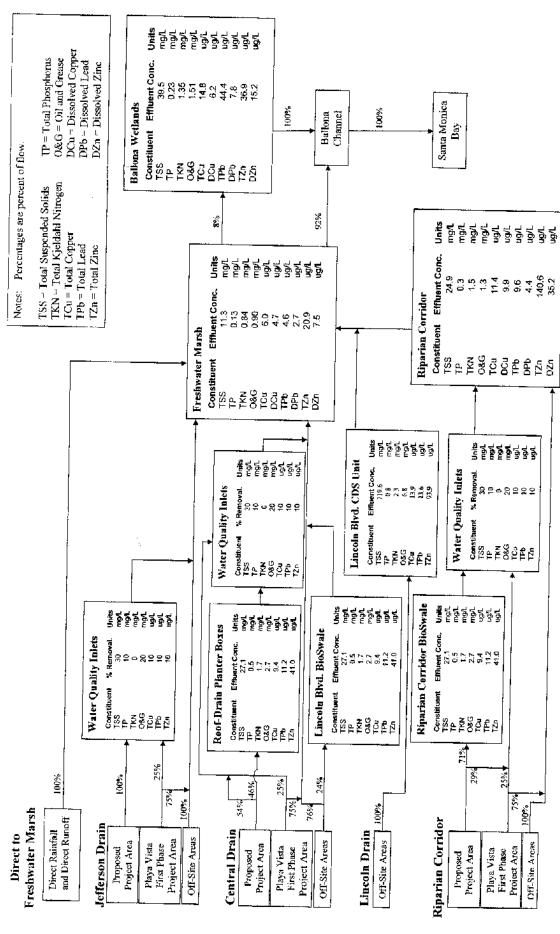


Figure F-3. Model flow diagram for after Proposed Project.

TABLE F-1

SUMMARY OF TRIBUTARY AREA (acres)
PLAYA VISTA - South of Ballona - Pre First Phase

Tribulary Harsi (tatura ligantical foreign of the figure o										
######################################	Tribulary	Industrial	Commercial/ Residential		Major Roadways	Open	High Density Residential		Cpen Space	
## Shorter   15.55   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.		9			MPER VIOUSNESS	FACTORS				Acresde
and Dirich (future Ripartian Corridor) at a dirich dirich (future Ripartian Corridor) at a dirich di	Freshweter March (f.idure)		1.50	1	1.30	1.00	1.00	0.40	02.C	Subtotals
15.95   1.00   15.95   1.00   15.95   1.00   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59   1.23.59	Centineta Ditch (future Riparian Corridor) at									
15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.85   15.8										
Second Project   Seco	Proposed Project			40.4						
Storm Drain (future)	First Phase	_		78.43		8 (			55,19	71.84
123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   123.56   1	Official	8.0 8.0	_	80.69	0	C			37.95	121.12
## Differ at Lincoln	Subtotal	0.00	0.00	163.36	900	4	6	123.59	42.80	235.77
Storm Drain (future)   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	Centinela Dificit at Lincoln						0,00	123.63	135.98	428.73
Storm Drain (future)										
Storm Drain (future)	0.9.3C		_	2.83			_		0	0.00
Storm Drain (future)	Substate			.8 28	2.03			30.70	77.70	00.10
act Policit         de Pol	Control Storm Drain (6.45.11.1)	0.00	8	21.21	2.03	0.00	000	30.70	200	80'00
Second   S	Company Company (Turune)						À	3	2.70	141.04
Storm Drain - South   D.000								1		į
Sterm Drain - South   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00										0.00
Secretary   1.5   South   1.	O.1758(⊕									0,00
Storm Drain - South  Sase  10 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Subtotal	0.00	00'0	00.0	5	000		,		0.00
1	Lincoln Storm Drain - South		-		20.7	00.0	0,00	00.0	0.00	0.00
A	Proposed Project									
Harden   H	First Phase								•	000
1	Jf-s:;e			7	'n				0.02	0.02
o Freehwater Marsh (Future)         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00 <t< td=""><td>Subtotal</td><td>0000</td><td>900</td><td></td><td>» e</td><td>1</td><td>પ્<u>ર</u> ~</td><td>74 46</td><td>0.40</td><td>90.90</td></t<>	Subtotal	0000	900		» e	1	પ્ <u>ર</u> ~	74 46	0.40	90.90
d Project; 359  1	Direct to Freshwater Marsh (Future)			+	70°4	0.00	7.04	74.46	0.42	90.92
1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Proposed Project				_	_		•		
Pa - Freshwater Marsh Tributary   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.10   31.70	1501 TIGGO 1501 TIGGO								f	0.00
48 - Freshwater Marsh Tributary         0.00         0.00         0.00         0.00         0.00         0.00         0.00         15 65         0.00         1.00         0.00         55.19           Ise         0.00         0.00         0.00         13 65         0.00         4.70         0.00         0.10         151 63           0.00         0.00         0.00         0.00         91.57         6.92         7.04         226.55         48.08           0.00         0.00         0.00         188.68         6.92         5.70         7.04         228.85         255.20	Subtotal							⊇ <b>5</b>	3.75	34,80
d Project 0.00 0.00 15.65 0.00 1.00 0.00 0.00 0.00 0.00 0.00 0.0	Cotal Area - Prochaster Masse Tall 4.	0.00	0.00	0.00	00'0	00.0	0.00	9	2	20.00
156	Processed Project	į							1	31.80
0.00 0.00 188.68 6.92 5.70 7.04 228.85 48.08 0.00 0.00 0.00 188.68 6.92 5.70 7.04 228.85 255.20	- 'st Phase	0.00	880	15.65	00.0	8.	0.00	90,0	65.35	71.84
0.00 0.00 188.68 6.92 5.70 7.04 228.85 48.08	e: s-JIC	3 5	3 6	9136	20.0	4.70	0.00	0.10	151.93	238.09
0.00 0.00 188.68 6.92 5.70 7.04 228.95 255.20		2	3	) i	6,92	) ) ) (	8	226.85	48.08	382.56
02,502	ofal	0.00	0.00	188.68	6.92	2.40	2	40 000		
								£8.033	02,20	692,49

TABLE F-1

SUMMARY OF TRIBUTARY AREA (acres)
PLAYA VISTA - South of Ballona - Pre First Phase

-	ndustria	Commercias/	Correspondent	Major	uedO	Нg	Low Density	Conc	
Tributary		Residential		Roadways		Dens.ty   Residentia:		Space	
				IMPERVIOUSNESS	SECTORS				40,000
	1.30	1.00	1.00	1.00	1.00	80-	0.40	0.50	Sichtofeli
callona Wetlands									SHE TO LEGIS
Pefferson Storm Drain *							•		
Proposed Project					_				
First Phase			56					37.83	37.83
Off-site	RS 42		3 5	6	_		_	93.49	93.81
Subtotal	65.42	00.0	9 6	36.37		9,17	88 88	48 16	264.48
Former Area B Residential"		3	14.30	36.37	0.00	9.17	93.30	179.48	396,12
Proposed Project									
First Phase									0.00
⊡ff-site									0.00
Subtotal	6								0.00
East Wetlands	3	0.00	0.00	0.00	0.00	000	0.00	0.00	00.0
Proposed Pro ac.									
First Phase			_				_		8
								•	3 4
				1.57	140		0,00	3	0.00
action (a)	0.00	0.00	0.00	12		9	5 5 5	g ;	116.89
South Wetlands					0.	0,00	28.13	84.69	116.89
Proposed Project							-		
First Phase					•				000
Off-site			3 53	ů,	6				0.00
Subtotal	00'0	0.00	7	, <b>.</b>	2 5	10.01	126.36	42.63	188.14
North Wetlands***			,	2.0	1.60	10.51	125.36	42.63	188.14
Proposed Project		_	_						
First Phase									0.00
Off-site			47.0			_			0.00
Subtotal	0.00	600	0 4 0 4	74.6	2.90	0.0.	5.22	137,75	151.60
			24.75	8.47	3.80	0,04	5.22	137,75	161,80
Total Area - Ballona Wetlands Tributary			1						
hoject	8	0.00	000	6		,			
First Phase	200	000		5 6	0.0	8	0.00	37.83	37.83
Off-site	85.42	000	3000	3 3	3	9 6	9.00	53.49	93.81
Total	65.40	6 6	5 6	51.02	5.60	16.99	254.01	313,23	731.31
		,	22.30	51.02	5,90	19.69	234.01	444,55	862.95
oftel Area . South of Balling As									
Proposed Delot									
Decodo riolesi	00.0	0.00	15,65	0.00	8		5		
10. 13. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10	0.00	90.0	81.58	0.00	2 5	9 6	9 6	93.02	109.67
	65.42	0.00	113.74	3	2 6	20.00	0,10	245.42	331,90
TOTAL	65.42	0.00	211.04	10.75	28.5	26.73	482.56	361,31	1113.87
					707	50.73	482.96	699.75	1555.44

TABLE F-2

SUMMARY OF TRIBUTARY AREAS (acres)
PLAYA VISTA - South of Ballona - First Phase Project

Tributary	Industrial	Commercial/R asicentral	Commercial	Major Roscways	Open Water	Other or Urknown	High Density Residental	Lew Density Residential	O Percona	
# LID?				IMPERVIOUSNESS FACTORS	NESS FACT	CFS.				Acresone
	OD.	1.00	1 00	1.00	1,00	1.00	1 00	3.46	0.50	e property of
Freshwater Marsh									***	Signolation
Riperian Carridor at Proposed										
Project Boundary										
Proposed Project			15.65							
TAT THESE			7166		26.		_ ;	_	65,19	71.84
Off-site	0.08		0	270	5		900		7.62	83.47
Subtotal	9.09	000	167.00	9 4		į		123,09	47.54	240.94
Riparian Corridor at Lincoln				2	5.20	0.00	8	123,09	110.46	396.26
Proposed Project					•					
F st Phase			30 74							g og
Off-site			n d		⊕ 100 100 100 100 100 100 100 100 100 10		29.83		17.85	72.44
Subtotal	000	e e						31.42	-	48.43
Total Riparian Corridor Tributary		;	7	<b>3</b>	6	00.0	28.83	31.42	17.85	121.87
Alea	0.06	00.0	1,89 97	0.48		;				
Central Storm Drain				040	13,60	0.00	29.83	154,51	128.30	518.12
Proposed Project										
First Phase	-		38.21		-	_			37 26	37.20
C:f-sile	0.00						57,16		43.74	108.5
Subtotal	0.61		40 21		;			_	_	8. †B
Jefferson Storm Drain			1	2	₽i	0.00	67.18	0.00	50.40	153.96
Proposed Project	00'0	0.21	000	600						
First Phase			20.00		000	20.5	98.0	000	0.00	0.6710
Off-site	35.42		7	000			18.59		1.84	36.41
Subtetal	65.42	0.24	28.00	4 5			5.17	93.30	0.52	221.07
Lincoln Storm Drain - South			70.04	40.72	8	80'5	28.13	93.30	2.48	257.05
Proposed Project		•	-	-			-			
					-	-			_	0.00
- C-1-6ma			48.6	e 18		-	5	,	0.24	7
Subtotal	0.0	0,00	<b>78</b> 65	8.18	9	9	5 2	9	_	91,62
Proposed Priest								9	77.0	25.78
Table Control of the	_			_						•
P001 L 10			_	D,28	9.70			0.10		5 5
Off-5.3a		•				•		-	44	9.19
Subtotal	00.0	- 8		-	_					0.00
Total Area - Freshwater Marsh			200		0/%	6.9	0.00	9	21,72	31.80
Tributary						_	_	_	-	
Proposed Project	0.00	0.21	15.65	0000	- 63	0		-		
TIME ** TABLE	0.00	000	139.8C	0.28	5	200	9 6	0.00	92,45	109.67
	65,49	90.0	103,39	55.50	200	000	96	01:0	62.41	331.80
gal	65,49	0.21	258.84	55.78	2	900	5	322.27	<b>48.</b> 26	611.12
				,						

TABLE F-2

SUMMARY OF TRIBUTARY AREAS (acres) PLAYA VISTA - South of Ballona - First Phase Project

Former Area B Residential Proposed Project Frist Phase Subtotal Residential Re	1.00		Readways	Water	Urknown	Density	Residental	Open Spece	
mer Area B Residential  Plase Ities	100		IMPERVIOUS	MFERVIOUSNESS FACTORS	87.0				  -  -
mor Area B Residential  Plase Ite Ite Ite Ite Ite Ite Ite Ite Ite It		130	1.05	00	100	1.00	0.40	0.20	Acreage
In Phase in the control of the contr				_				2	Suproteis
Interest Programmes Beneficial Former Area Beneficial B		-			•		_		00'0
dential dential dential dential dential flasse flasse flasse ona Wetlands wetinids ased Project flasse flas	Ş	8	8. 4. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.				•	50,48	0.00 28.84
Phase These		3	8.43	20	0,00	0.00	9.0	50.48	58.91
Phese  To be Wetlands  Wetlands  Bed Project  Phase  Cotal  In Wetlands  Sed Project  Afea - Balfona Wetlands		_							
ona Wetlands  ona Wetlands  saed Project  Phase chal  h Wetlands  saed Project  tatal  Wetlands  sed Poject  Afea - Balfona Wetlands  any  tatal  these	0.0	900	Q.D3	00'0	0.00	0.00	200	000	9
ona Wetlands Vediands Wetlands Wetlands Phase is to lea in Wetlands Saad Project I Wetlands I Wetla	3 8	000	6.63	0.00	0.00	0,00	0.00	00.00	8 6
ona Wetlands Wetlands Wetlands Please Ise Ise Ise Ise Ise Ise Ise Ise Ise I	000	000	8.43 6.43	8.5	8.	0.00	0.00	50.48	58.81
Wetiands ased Project blood to the Wetiands ased Project blood the Wetiands ased Project blood the See Ballona Wetiands asy fee Ballona Wetiands			040	0,00	00:0	000	0.00	90.48	56,91
Wedtands ased Project Please Claid Chair A Wetlands Asse Project Chasse Afrea - Balfona Wetlands (ad Project Area - Balfona - Balfona Area - Balfona - Balfo									
Phase Phase Phase  cotal  h Wetlands sed Project  atal  Wetlands  Fores  Afea - Balfona Wetlands  and  Area - Balfona Wetlands  fores									
Phese to the second of the sec			•	•					
teal  N Vetlands Sed Project  Phase  Phase  Phase  Phase  Phase  And Ballona Wetlands  And Project  And Phase  And Phase  Phase  And				-					0.00
Wetlands Seed Project Thase seed Poject Wetlands seed Poject Wetlands Seed Poject Area - Ballona Wetlands Say Ray Fress			222	50 0			:		00.0
n Weffands Phose Project and Project and Project These code Project Area - Balfona Wetlands and Project these	0.00	0.00	234	8	-		29.13	84.66	116.89
Saed Project State  Wetlands Wetlands Prese Afea - Balfons Wetlands lary  these				3	3	20.00	ZB, 13	87.82	116.89
inase State of the state of the		_							;
aria) Wetlands Wetlands Pec Color Pe			_					•	900
Netlands sed Project These ttal Area - Ballona Wetlands sed Project these	000	3,53	3.48	1 60	_	10.61	126.36	42.55	188 44
hese tal Afea Balfona Wetlands any these	200	3.53	3.48	1.60	900	10.61	128.38	43 CB	1007
Prese tal Area - Ballona Wetlands lary haso Preject		-		-				4.00	163.74
tal Area - Ballona Wetlands lary sed Project hass				-	-	_	_		0.00
tal Area - Ballona Wetlands Area - Project hase		6.45	-			•		-	00.0
Aroa - Ballona Wetlands Aroa - Ballona Wetlands Sed Project hase	0.00	6.45	9 69	DE 6		50	5.23	118.35	138.80
Area - Gallona Wetlands lary sed Project hase		-	-		8	6.01	22.0	118.39	138.80
sed Project				- -	Ť			†	
heso	-								
•	000	000	90.0	0.00	000	000	0.00	000	90.0
	200	200	8 ;	0.00	00.0	0.00	0.00	000	800
	000	o ec	22.5	243	0)'0	19.62	16C 72	245.69	443.83
			36.	0.4€	0.00	10.52	160.72	245.69	443.83
Total Area - South of Ballona									
Channel	_							- 	
roje at	0.24	15,65	0.00	00 7				-	
	00.0	139.80		2 2	000	0.30	00:0	32.45	109.67
Off-site	0,0	113.37	75.45	20.00	000	105.61	0,10	62.41	331.90
	0.21	266.82	75.73	1 1 2	3 6	26.73	482.99	344.43	1113.8¢

TABLE F.3

# SUMMARY OF TRIBUTARY AREA SOUTH OF BALLONA (acres) PLAYA VISTA - South of Ballons - Proposed Project

Netter Matsh	0.00 1.00 0.00 0.00 0.00 0.00 0.00 0.00	1.00				
14.95 0.00 0.56 0.00 0.56 0.00 0.00 0.00 0.0	0.00 2.00 2.00 2.00 2.00	1.00	CRS			AGREGOS
0.00 7.85 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	3 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		1.00	0.40	0.20	Subtotels
1.59   0.00   0.35   0.00    00.0 34.0 34.0 00.0						
0.00 7.55 0.00 0.00 0.00 0.00 0.00 0.00	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
0.00   7.55   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	0.0 84.0 84.0 80.0		7.52			10.59
14.95   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	0.00	3 64	6.6		_	S. 50
1,456   1,456   1,456   1,456   1,456   1,456   1,456   1,456   1,456   1,456   1,456   1,456   1,456   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,457   1,45	0.00	;	3 6		14.23	19.50
14.96   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.95   14.9	0.00	3.51	12.62	8	14.70	
14.56 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141.55 141	24 0.00 0.00	8	8.3		2	17.0
14.96   14.96   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.00   15.0	90,0	;		13.00	7.0	240.84
14.96 14.96 16.00 0.00 0.00 17.95 17.75 2.05 0.00 14.87 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	90.00		707	123,08	22	367.17
14.96   14.96   14.96   14.96   14.96   14.91   14.96   14.91   14.95   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.33   17.3	0,00					
14,56   14,56   14,57   15,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,472   17,4	00,00	_			-	
18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   18401   1840	0.00	38.6	29.63		17.85	3 5
174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   174.77   1	00.00		İ	3: 42	3	7.00
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0.00   3.57   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.						
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0.00   2.57   1.17   2.62   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.00   2.			:	_		
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65.42 0.21 14.24 65.42 0.21 14.24 65.42 0.21 25.63 65.42 0.20 3.54 6.00 0.00 3.54	_		9 6			0,03
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3.04	27.25	8	28.12	93,30	246	257.08
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	Ŧ	2	89	0,10	27.72	31.80
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0.00 23.13 0.00	_	_		20	• • • • • • • • • • • • • • • • • • •	1
38.80	0.28	23.70	105.01	5.40		
	_			-	45.26	M11.42

TABLE F-3

SUMMARY OF TRIBUTARY AREA SOUTH OF BALLONA (acres)
PLAYA VISTA - South of Ballons - Proposed Project

Tributasy	Industrial	Corresponding Commercial	Commercial	Major Rosdways	Open	High Density Low Density Residential Residential	Low Density Regidents	Open	
Name			E.	INPERVIOUSNESS FACTORS	SSFACT	ORS			-01111
	1.00	(0)	1.00	1.00	8	00:	040	6.20	Subfotals
Former Area B Residential Proposa Project Play Phasa Official	8	8	[8	\$ 75 5 43				50.43	0.00 0.00
Total Area - Former Area B Residential				7	3	800	9,00	50.43	38.81
Proposed Project First Phase	0.00	00:00	60.00	80.0 80.0	88	00.0	900	88	90,0
Unitatio Total	0.00 00.00	0,00 0,00	00'0 00'0	2 C	0.00	0.00	88	20 48 20 40 40 20	1 2 2
Ballone Wetlands Jar Wetlands Proposed Project Prof. Phase Off-sile	B0'0	80.0	8	អូត	200	8	28:3	3465	0.00 0.00 11£.89
South Wellands Proposec Project First Prises Circle Prises Subtocial	800		25.5		된 기	100	12236	8 S	0.00 0.00 188.14
North Wetsands Proposed Froject First Frase Offset Sub torial	00.0	80	44.4	20 M	8, 8, 8	5 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	E 815	42.88 118.38	0.00 0.00 128,80
Total Area - Ballons Wedands									138,80
Proposed Project Pro; Phose	9 S	86	8 8	80.0	000	0.00	8	0.00	8,9
Off-eile Total	018 018	000 000	88 E	1152	일하다 기계	200 200 200 200 200 200 200 200 200 200	8 8 8 12 11	8 8 8 8 9 8	8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6 8.6
Total Ares - South of Ballons Channel									20,7
Proposed Project	00'0	23.13	86.0	0.00	F)	65,00	20'0	18.04	109.48
First Phase Off-sip	0.00 65.48	8 8	139.60	0.28	5.40	105.61	0.10	52.41	331.80
CYRI	65.48	22,13	253.17	75.73	32.61	187.34	463.09	424.80	1,555.45

Table F-4

Playa Vista
Event Mean Concentrations (mg/L) and Imperviousness Factors (%)

			Cons	Constituent Values (mg/L)	ng/L)			
						4		
Pollutant	Industrial	Industrial Commercial/Residential	Commercial	Transportation	Water	High Density Low Density Residential Residential	Low Density Residential	Open Space
LA County EMCs								
TSS	177.85	53,95	67.63	39.40	0.00	40.28	40.28	223 62
Total F	0.308	0.318	0.399	0.295	0.000	0.236	0.236	0.124
10(5) (-))	0.028	0.023	0.035	0.034	0.000	0.011	0.011	000
Total PE	0.018	0.012	0.021	0.004	0.000	0.003	0.003	800.0
1000 CD	0.335	0.168	0.239	0.173	0.000	0.097	0.097	0.022
NAT.	2007.	2.289	3.278	3.100	0.000	1.300	1.300	0.00
į	#G7.7	7.401	3.113	1.053	0.000	1.810	1.810	0.976
Impervious Factors (%)	100	100	100	100	100	001	9	0,0
Runoff Coefficients Notes:	8.0	0.8	9.0	8.0	8.0	8:0	0.38	0.24

Values for oil and grease were obtained from Santa Monica Bay Report means (Stenstrom, 1993). Water areas were assumed not to add any pollutant loadings.

The values for the high density land use category were used for the high, medium, and low/medium density residential and other/unknown land use categories in the model.

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# Dissolved to Total Metals Fractionation Values for Influent Quality

	Ajun	LA Co	VSCE/EBV	
Fraction Used (%)	Residential (%)	Commercial (%)	BMP Database (%)	lst9M
%5°97	%0.7 <i>c</i>	%0 <sup>-</sup> 9£	%E.4S	Copper
% <i>L</i> ′\$₽	V/N	∀/N	%L'S <b>t</b>	Lead
%£.62	%0`95	%0°E9	%S.T4	oπi⊼

Table F-6

#### Summarized Retention Pond EMC Data

Туре	BMP Name	Parameter	L-122 (	B-4			Arithmetic
RP	DeBary Detention with Filtration Pond	Copper, Dissolved (ug/L as Cu)	In/Out	Data points (valid)			StDev
₹P	DeBary Delention with Filtration Pond	Copper, Dissolved (ug/L as Cu)	Inflow Outflow	33	7.513	ug/L	1.692
ξÞ	Lake Ellyn	Copper, Dissolved (ug/t as Cu)	Inflow	47	5 513	ug/L	2.014
₹P	Lake Ellyn	Copper, Dissolved (ug/L as Cu)	Outflow	18	10.472	ug/L	5.116
₹P	Wet detention pond, Monroe St.	Copper, Dissolved (ug/L as Cu)	Inflow	18 24	4.553	ug/L	1.357
P P	Wet detention pond, Monroe St.	Copper, Dissolved (re/L as Cu)	Outflow	23	7.363	ug/L	3.788
₹P	Central Park Wet pond	Copper, Total (ug/L as Cu)	Inflow	9	4.691	ug/L	1.893
₹P	Central Park Wet pond	Copper, Tutal (ug/L as Cu)	Outflow	9.	17.888	ug/L	12.370
P	Cockroach Wet Pond	Copper, Total (ug/L as Cu)	Inflow	49	6.095	ug/L	1.561
P	Cockroach Wet Pond	Copper, Total (ug/L as Cu)	Outflow	24	42.352	ug/L	143,928
P	DeBary Detention with Filtration Pond	Copper, Total (ug/L as Cu)	Inflow	33	8.832	ug/L	12.887
P	DeBary Octention with Filtration Pond	Copper, Total (ug/L as Cu)	Outflow	47	9.696	ug/L	2.411
P.	Heritage Retention Pand	Copper, Total (ug/L as Cu)	Inflow	13	6.920	ug/L	3 588
P	Heritage Retention Pond	Copper, Total (ug/L as Cu)	Outflow	13	47.057	ug/L	61.438
P	Lake Ellyn	Copper, Total (ug/L as Cu)	Inflow	18	10.711 55,349	ug/L	14.306
P	Lake Ellyn	Copper, Total (ug/L as Cu)	Outflow	18	6.022	ug/L	32.938
P	Lake Munson	Copper, Total (ug/L as Cu)	Inflow	3	20.155	ug/L	1.117
Р	Lake Munson	Copper, Total (ug/L as Cu)	Outflow	3	9.781	ug/L	183.787
P	Pand A	Copper, Total (ug/L as Cu)	Inflow	14	4.033	ug/L	7.803
P	Pond A	Copper, Total (ug/L as Cu)	Outflow	12	2.719	ug/L	1.924
P	Shawnee Ridge Retention Pond	Copper, Total (ug/L as Cu)	Inflow	8	13,580	ug/L	2.877
P	Shawnee Ridge Retention Pond	Copper, Total (ug/L as Cu)	Outflow	7	14.833	ug/L	17.244
P	South Central Stormwater Facility	Copper, Total (ug/L as Cu)	Inflow	4	5.071	ug/L	19.880
P	South Central Stormwater Facility	Copper, Total (ug/L as Cu)	Outflow	4	3.854	ug/L	5.266
P	Tampa Office Pond (2) 1993-94	Copper, Total (ug/L as Cu)	Inflow	19	3.059	ug/L	3.221
P	Tampa Office Pond (2) 1993-94	Copper, Total (ug/L as Cu)	Outflow	16	3.275	ug/L	1.984
P	Tampa Office Pond (3) 1994-95	Copper, Total (ug/L as Cu)	Inflow	44	6.435	ug/L	2 289
P	Tampa Office Pond (3) 1994-95	Copper, Total (ug/L as Cu)	Outflow	43	4.050	ug/L	4.632
Р	Wet detention pand, Monroe St.	Copper, Total (ug/L as Cu)	Inflaw	27	53.061	ug/L	3.302
P	Wet detention pond, Monroe St.	Copper, Total (ug/L as Cur)	Outflow	25	50.000	ug/L	9.949
P	DeBary Detention with Filtration Pond	Lead, Dissolved (ug/L as Pb)	Inflow	33	1.953	ug/L	0.000
P	DeBary Detention with Filtration Pount	Lead, Dissolved (ug/L as Ph)	Outflow	47	1.101	ug/L ug/Ł	2.222 1.040
P .	Lake Ellyn	Learl, Dissolved (ug/L as Pb)	Inflow	18	9.476	ug/L	15.272
-	Lake Ellyn	Lead, Dissolved (ug/L as Pb)	Outflow	18	31.081	սց/L	29,448
-	Silver Star Rd Detention Pond	Lead, Dissolved (ug/L as Pb)	inflow	13	99.391	ug/L	151.599
-	Silver Star Rd Detention Pond	Lead, Dissolved (ug/L as Pb)	Outflow	12	9.021	ug/t.	1.855
-	Wet detention pand, Monroe St.	Lead, Dissolved (ug/L as Pb)	Inflow	27	3,473	ug/L	1.055
	Wet detention pond, Monroe St.	Lead, Dissolved (ug/L as Pb)	Outflow	24	3.075	ug/L	0.208
-	Central Park Wet pond	Lead, Total (ug/L as Pb)	inflow	9	59.331	ug/L	202.764
<b>-</b>	Central Park Wet pond	Lead, Total (ug/L as Pb)	Outflow	9	5.137	ug/L	5.403
P	Cockroach Wet Pond	Lead, Total (ug/L as Pb)	Inflow	49	4.851	ug/L	6.807
-	Cockroach Wet Pond	Lead, Total (ug/L as Pb)	Outflow	24	1.898	ug/L	1.109
	DeBary Detention with Filtration Pond	Lead, Total (ug/L as Pb)	inflow	33	12.246	ug/L	31.657
P P	DeBary Detention with Filtration Pond	Lead, Total (ug/L as Pb)	Outflow	47	1,307	ug/L	1.378
5	Heritage Retention Pond	Lead, Total (ug/L as Pb)	Inflow	13	18.742	նց/Լ	18.151
	Heritage Retention Pond	Lead, Total (ug/L as Pb)	Outflow	13	8.889	ug/L	4.077
	Lake Ellyn	Lead, Total (ug/L as Pb)	Inflow	17	464.029	ug/L	410,695
) }	Lake Ellyn	Lead, Total (ug/L as Pb)	Outflow	17	33.215	ug/L	13.704
5	Lake McCarrons Sedimentation Basin	Lead, Fotal (ug/L as Pb)	ไภถือพ	23	114.500	ug/L	104.506
3	Lake McCarrons Sedimentation Basin	Lead, Total (ug/L as Pb)	Outflow	24	16.781	ug/L	30.961
•	Lake Munson	Lead, Total (ug/L as Pb)	Inflow	3	183.186	ug/L	1587.931
•	Lake Munson	Lead, Total (ug/L as Pb)	Outflow	3	8.330	ug/L	8.590
	Pittsfield Retention Pond	Lead, Total (ug/L as Pb)	Inflow	6	37.269	ug/L	19.932
,	Pattsfield Retention Pond	Lead, Total (ug/L as Pb)	Outflow	6	20.591	ug/L	14.114
,	Pond A Pond A	Lead, Total (ug/L as Pb)	inflow	14	5.292	ug/L	6.046
1	Shawnee Ridge Retention Pond	Lead, Total (ug/L as Pb)	Outflow	12	1.421	ug/L	1.196
,	Shawnee Ridge Retention Pand	Lead, Total (ug/L as Pb)	foflow	8	16.973	ug/L	4.252
	Silver Star Rd Detention Pond	Lead, Total (ug/L as Ph)	Outflow	7	17.890	ug/L	2.767
	Silver Star Rd Detention Pond	Lead, Total (ug/L as Pb)	Inflow	13	99.391	ug/L	151.599
	South Central Stormwater Facility	Lead, Total (ug/L as Pb)	Outflow	12	50.411	ug/L	45.380
	South Central Stormwater Facility	Lead, Total (ug/L as Pb)	Inflow	4	3.536	ug/L	1.947
	Tampa Office Pond (2) 1993-94	Lead, Total (ug/L as Pb)	Outliow	4	2.397	ug/L	2.843
	Tampa Office Pond (2) 1993-94	Lead, Total (ug/L as Pb)	Inflow	14	3.284	ug/L	3.207
	Tampa Office Pond (3) 1993-94	Lead, Total (ug/L as Pb)	Outflow	12	1 249	ug/L	0.401
	Tampa Office Pond (3) 1994-95	Lead, Total (ug/L as Pb)	inflow	40	5.634	ng/L	5.396
	Wet detention pond, Manroe St.	Lead, Total (ug/t, as Pb)	Outflow	17	1.347	ug/L	0.523
	Wel determine pond, Monroe St.	Lead, Total (ug/L as Pb)	Inflow	27	94.835	ug/L	63.839
	Central Park Wet pand	Lead, Total (ug/L as Pb)	Outflow	25	69.535	ug/L	55.526
	Central Park Wet pond	Nitrogen, Kjeldahf, Total (mg/L as N)	Intlow	9	1.064	mg/L	0.549
	Heritage Retention Pond	Nitrogen, Kjeldahl, Total (ing/Las N)	Outflow	12	1.565	mg/L	1.507
		Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	13	1.357	mg/L	1.019
	Heritage Retention Pond	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	13	0.982	mg/L	0.184
	Lake McCarrons Sedimentation Basin Lake McCarrons Sedimentation Basin	Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	23	3.705	mg/L	2.534
	Lake Munson	Nitrogen, Kjeldahl, Yotal (mg/L as N)	Outflow	24	1.367	mg/L	0.633
	Lake Munson Lake Munson	Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	3	1.555	mg/L	7.312
		Nitrogen, Kjeldahi, Total (mg/L as N)	Outflow	3	0.821	mg/l	0.247
	Lakeside (LS) Pond Lakeside (LS) Pond	Nitrogen, Kjeldahl, Total (mg/L as N) Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	8	0.860	mg/L	0.000
	CERCAGOE IL CLEIVIO	Block as a Middel Total Condenses	Outflow	5			

#### Table F-6

# Summarized Retention Pond EMC Data

BMP Type	BMP Name	De anno de					Arithmetic
RP	Pittsfield Retention Pond	Parameter	In/Out	Data points (valid)		ean units	StDey
RP	Pittsfield Retention Pond	Nitrogen, Kjeldahl, Total (mg/Las N) Nitrogen, Kjeldahl, Total (mg/Las N)		7	0.996	mg/L	1.202
RP	Runaway Bay (RB) Pond	Nitrogen, Kjeldahi, Total (mg/L as N)	Outflow	7	0.858	mg/L	1.155
RP	Shawnee Ridge Retention Pond	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	8	0.628	mg/L	0.201
RP	Shawnee Ridge Retention Pond	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	8 7	1.557	mg/L	0.905
RP	South Central Stormwater Facility	Nitrogen, Kjeldahl, Total (mg/L as N)			1.115	mg/L	0.223
RP	South Central Stormwater Facility	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	4 4	0.557	mg/L	0.346
RP	Traver Creek Retention Pond	Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	5	0.738	mg/L	0.282
RP	Traver Creek Retention Pond	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	5	0.905	mg/L	0.120
RΡ	Waterford (WF) Pond	Nitrogen, Kjeldahl, Total (mg/t. as N)	Outflow	8	0.719	mg/L	0.194
RP	Wet detention pond, Monroe St.	Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	5 <b>8</b>	0.733	mg/L	0.301
RP	Wet detention pand, Monroe St.	Nitrogen, Kjeldahl, Total (mg/L as N)		25	2.302 1.218	mg/L	2.125
RP	Central Park Wet pond	Oil and Grease (mg/L)	Inflow	7	3.814	mg/L	0.455
RP	Central Park Wet pond	Oil and Grease (mg/L)	Outflow	8	3.204	mg/L ma/l	2.067
RP	Central Park Wet pond	Phosphorous, Total (mg/L as P)	Inflow	9	6.944	mg/L mg/L	1.150
RP	Central Park Wet pond	Phosphorous, Total (mg/L as P)	Outflow	y	6,625	mg/L	13.285 6.28 <del>6</del>
RP	Cockroach Wet Pond	Phosphorous, Tutal (mg/L as P)	Inflow	48	1.609	mg/L	2.318
RP	Cockroach Wet Pond	Phosphorous, Total (mg/L as P)	Outflow	24	0.574	mg/L	0.649
RP RP	DeBary Detention with Filtration Pond	Phosphorous, Total (mg/L as P)	Inflow	33	0.267	mg/L	0.205
RP RP	DoBary Detention with Filtration Pond	Phosphorous, Total (mg/L as P)	Outflow	47	0.077	mg/L	0.031
RP	Lake Ellyn	Phosphorous, Total (mg/L as P)	Inflow	18	0.560	mg/L	0.301
RP	Lake Effyn	Phosphorous, Total (mg/L as P)	Outflow	18	0.182	mg/L	0.049
RP	Lake McCarrons Sedimentation Basin	Phosphorous, Total (mg/L as P)	Inflow	23	0.999	mg/L	0.600
RP	Lake McCarrons Sedimentation Basin Lake Munson	Phosphorous, Total (mg/L as P)	Outflow	24	0.227	mg/L	0.164
RP	Lake Munson	Phosphorous, Total (mg/L as P)	Inflow	3	1.068	mg/L	0.885
ŘΡ	Lakeside (LS) Pond	Phosphorous, Total (mg/L as P)	Outflow	3	0.236	mg/L	U.041
RP.	Lakeside (LS) Pond	Phosphorous, Total (mg/L as P)	inflow	8	0,140	mg/L	0.000
RP	Pittsfield Retention Pond	Phosphorous, Total (mg/L as P) Phosphorous, Total (mg/L as P)	Oulflow	5	0.140	mg/L	0.430
RP	Pittsfield Retention Pond	Phosphorous, Total (mg/L as P)	Inflow	7	0.192	mg/L	0.212
RP	Pond A	Phosphorous, Total (mg/L as P)	Outflow	7	0.179	mg/L	0.315
RP	Pond A	Phosphorous, Total (mg/L as P)	Inflow Outflow	14	0.097	mg/L	0.069
RP	Runaway Bay (RB) Pond	Phosphorous, Total (mg/L as P)	Outflow	12	0.083	mg/L	0.035
RP	Shawner Ridge Retention Pond	Phosphorous, Total (mg/L as P)	Inflow	8 8	0.101	mg/L	0.137
RP	Shawnee Ridge Retention Pond	Phosphorous, Total (mg/L as P)	Outflow	7	0.522	mg/L	2.364
R₽	Silver Star Rd Detention Pond	Phosphorous, Total (mg/L as P)	Inflow	13	0.140	mg/L	0.406
RP	Silver Star Rd Detention Pond	Phosphorous, Total (mg/L as P)	Outflow	12	0.170 0.117	mg/L	0.119
RP	South Central Stormwater Facility	Phosphorous, Total (mg/L as P)	Inflow	4	0.224	mg/L	0.048
RP	South Central Stormwater Facility	Phosphorous, Total (mg/L as P)	Outflow	3	0.117	mg/L mg/L	0.446
RP	Tampa Office Pond (1) 1990-91	Phosphorous, Total (mg/L as P)	Inflow	22	0.526	ng/L	0.079 0.734
RP	Tampa Office Pond (1) 1990-91	Phosphorous, Total (mg/L as P)	Outflow	22	0.176	mg/L	0.734
Sb Sb	Tampa Office Pond (2) 1993-94	Phosphorous, Total (mg/L as P)	Inflow	25	0.542	mg/L	0.799
RP	Tampa Office Pond (2) 1993-94	Phosphorous, Total (mg/t, as P)	Outflow	21	0,196	mg/L	0.319
RP RP	Tampa Office Pond (3) 1994-95	Phosphorous, Total (mg/L as P)	Inflow	44	0.501	mg/L	0.519
RP RP	Tampa Office Pond (3) 1994-95	Phosphorous, Total (mg/L as P)	Outflow	44	0.058	mg/L	0.041
RP	Traver Creek Retention Pond Traver Creek Retention Pond	Phosphorous, Total (mg/L as P)	wollaf	5	0.095	mg/L	0.030
RP	Waterford (WF) Pond	Phosphorous, Total (mg/L as P)	Outflow	5	0.057	mg/L	0.022
R₽	Wet detention pond, Monroe St.	Phosphorous, Total (mg/L as P)	Outliaw	8	0.137	mg/L	0.189
RP	Wet detention pond, Monroe St.	Phosphorous, Total (mg/L as P)	Inflow	30	0.751	mg/L	0.709
RP	Central Park Wet pond	Phosphorous, Total (mg/L as P)	Outflow	26	0.228	mg/L	0.053
RP	Central Park Wet pond	Solids, Total Suspended (mg/L)	Inflow	8	87.295	mg/L	152,636
RP	DeBary Detention with Filtration Pond	Solids, Total Suspended (mg/L)	Outflow	10	36.622	mg/L	23.893
₹P	DeBary Detention with Filtration Pond	Solids, Total Suspended (mg/L)	Inflow	33	89.482	mg/L	168,497
RP	Heritage Retention Pond	Solids, Total Suspended (mg/L) Solids, Total Suspended (mg/L)	Outflow	46	0.967	mg/L	1.308
R/P	Heritage Retention Pond	Solids, Total Suspended (mg/L)	inflow Outflow	13	166.151	mg/L	278.561
QS	Lake Ellyn	Solids, Total Suspended (mg/L)	Inflow	13	16.412	mg/L	10.507
RP	Lake Ellyn	Solids, Total Suspended (mg/L)	Outflow	18 18	329.540	mg/L	313.141
₹P	Lake McCarrons Sedimentation Basin	Solids, Total Suspended (mg/L)	Inflow		18.995	നg/L	8.365
SD.	Lake McCarrons Sedimentation Basin	Solids, Total Suspended (mg/L)	Outflow	23 24	554.694	mg/L	844.554
₹P	Lake Munson	Solids, Total Suspended (mg/L)	Inflow	3	46.374	mg/L	74.016
₹P	Lake Munson	Solids, Total Suspended (mg/L)	Outflow	3	423.859	mg/L ma/l	532.299
RP.	Lakeside (LS) Pond	Solids, Total Suspended (mg/L)	inflow	3 8	10.993	mg/L	6.699
₹P	Lakeside (LS) Pond	Solids, Total Suspended (mg/L)	Oulflow	5	99,139 11.087	mg/t.	4.972
(P	Pittsfield Retention Pond	Solids, Total Suspended (mg/L)	Inflow	7	63,863	mg/L	6.039
₹P	Pittsfield Retention Pond	Solids, Total Suspended (mg/L)	Outflow	7	34.599	rng/L mo/L	92.022 55.436
ΣÞ	Pond A	Solids, Total Suspended (mg/L)	inflow	14	22.666	mg/L mg/l	55.436 16.572
P	Pond A	Solids, Total Suspended (mg/L)	Outflow	12	9.437	mg/L mg/l	16.572
S.D.	Runaway Bay (RB) Pond	Solids, Total Suspended (mg/L)	Outflow	8	22.211	mg/L mg/L	4.881 45.626
RP ND	Shawnee Ridge Retention Pond	Solids, Total Suspended (mg/L)	inflow	8	139,965	mg/L	15.526 202,119
P	Shawnee Ridge Retention Pond	Solids, Total Suspended (mg/L)	Outflow	7	8.674	mg/L	3.639
P	Silver Star Rd Detention Pond	Solids, Total Suspended (mg/L)	Inflow	13	33.345	mg/L	
(P	Silver Star Rd Detention Pond	Solids, Tutal Suspended (mg/L)	Outflow	12	166.435	mg/L	51.336 48.547
P	South Central Stormwater Facility	Solids, Total Suspended (mg/t.)	inflow	4	35.585	mg/L	23.933
P	South Central Stormwaler Facility	Solids, Total Suspended (mg/L)	Outflow	4	13.551	mg/L	23.933
:P :P	Tampa Office Pond (1) 1990-91	Solids, Total Suspended (mg/L)	Inflow	22	28.028	mg/L	24.666
P P	Tampa Office Pond (1) 1990-91	Solids, Total Suspended (mg/L)	Outflow	22	19.562	mg/L	42 810
	Tampa Office Pond (2) 1993-94	Solids, Total Suspended (mg/t_)	Inflow	25	46,122	ng/t	159.084

Table F-6

# Summarized Retention Pond EMC Data

BMP							
Type	BMP Name	Parameter	In/Out	Data points (valid)	Arithmetic mass		Arithmetic
₹P	Tampa Office Pond (2) 1993-94	Solids, Total Suspended (mg/L)	Outflow	21	13.225		StDev
P	Tampa Office Pond (3) 1994-95	Solids, Total Suspended (mg/L)	inflow	46		mg/L	12.102
P	Tampa Office Pond (3) 1994-95	Solids, Total Suspended (mg/L)	Outflow	46	166.472	mg/L	402.793
Р	Traver Creek Relention Pond	Solids, Total Suspended (mg/L)	Inflow	5	6.582	mg/L	8.312
P	Traver Creek Retention Pund	Solids, Total Suspended (mg/L)	Oulflow	5	33.996	mg/L	26.671
P	Waterford (WF) Pond	Solids, Total Suspended (mg/L)	Outflow	11	32.791	mg/L	21.433
P	Wet detention pand, Monroe St.	Solids, Total Suspended (mg/L)	Inflow	29	48.866	mg/L	60,899
P	Wel detention pond, Monroe St.	Solids, Total Suspended (mg/L)	Outflow	24	320,362	mg/L	491.167
•	DeBary Detention with Filtration Pond	Zinc, Dissolved (ug/L as Zn)	Inflow	33	33.904	mg/L	31.816
•	DeBary Detention with Filtration Pond	Zinc, Dissolved (ug/L as Zn)	Outflow		14.068	ug/L	11.767
•	Lake Ellyn	Zinc, Dissolved (ug/L as Zn)	Inflow	47	1.924	ug/L	1.145
3	Lake Ellyn	Zinc, Dissolved (ug/L as Zn)	Outflow	18	47.358	ug/L,	33.079
>	Silver Star Rd Detention Pond	Zinc, Dissolved (ug/L as Zn)		18	8.936	ug/L	3.726
•	Silver Star Rd Detention Pond	Zinc, Dissolved (ug/L as Zn)	Inflow	12	64.020	ug/L	57.949
,	Central Park Wet pond	Zinc, Total (ug/L as Zn)	Outflow	12	60.392	ug/L	70.848
,	Central Park Wet pond	Zinc, Total (ug/L as Zn)	Inflow	9	157.532	ug/L	156,593
,	Cockroach Wet Pond	Zinc, Total (ug/L as Zn)	Outflow	9	37.137	ug/L	22.491
,	Cockmach Wet Pond	Zinc, Total (ug/L as Zn)	Inflow	49	210.801	ug/L	826.529
•	DeBary Detention with Filtration Fond	Zinc, Total (ug/L as Zii) Zinc, Total (ug/L as Zn)	Outflow	24	109.634	ug/L	274.220
1	DeBary Detention with Filtration Point	Zinc, Total (ug/L as Zn)	woint	33	29.049	ug/L	19.033
ı	Heritage Retention Pond	Zinc, Yotal (ug/L as Zn) Zinc, Total (ug/L as Zn)	Outflow	47	2.077	ug/L	1.140
	Heritage Retention Pond	Zinc, Total (ug/L as Zn)	Inflow	13	81.352	ug/L	62.305
	Lake Ellyn	Zing, Total (ug/L as Zn)	Outflow	13	19.337	ug/L	28.717
	Lake Ellyn	Zinc, Total (ug/L as Zn)	inflow	18	279.425	ug/L	197.466
	Lakeside (LS) Pond	Zinc, Total (ug/L as Zn)	Outflow	18	28.628	ug/t.	11.290
	Lakeside (LS) Pond	Zinc, Total (ug/L as Zn)	Inflow	8	60.752	ug/L	1.276
	Pond A	Ziric, Total (ug/L as Zn)	Outflow	5	19.024	ug/L	7,260
	Pond A	Zinc, Total (ug/L as Zn)	Inflow	13	56,032	ug/L	23,432
	Runaway Bay (RB) Pond	Zinc, Total (ug/L as Zn)	Outflow	11	31.972	ug/L	6,778
	Shawnee Ridge Retention Pond	Zinc, Total (ug/L as Zn)	Outflow	8	35,762	ug/L	46.993
	Shawnee Ridge Retention Pond	Zinc, Total (ug/L as Zn)	Inflow	8	83.308	ug/L	102.683
	Silver Star Rd Detention Pond	Zinc, Total (ug/L as Zn)	Outflow	7	21.275	ug/L	7.892
	Silver Star Rd Detention Pond	Zinc, Total (ug/L as Zn)	Inflow	13	95.310	ug/L	85,447
	South Central Stormwater Facility	Zinc, Total (ug/L as Zn)	Outflow	12	102.840	ug/L	82.193
	South Central Stormwater Facility	Zinc, Total (ug/L as Zn)	Inflow	4		ug/L	113.230
	Tampa Office Pond (1) 1990-91	Zinc, Total (ng/L as Zn)	Outflow	4		ug/L	7.695
	Tampa Office Bond (4) 4000 04	Zinc, Total (ug/L as Zn)	inflow	22		ug/L	25.401
	Tampa Office Pond (1) 1990-91	Zinc, Total (ug/L as Zn)	Outflow	22		trg/L	28.164
	Tampa Office Pond (2) 1993-94	Zinc, Total (ug/L as Zn)	Inflow	25	-	ug/L	19.328
	Tampa Office Pond (2) 1993-94	Zinc, Total (ug/L as Zn)	Outflow	21		սց/Լ	16.621
	Tampa Office Pond (3) 1994-95	Zinc, Total (ug/L as Zn)	Inflow	46		ug/L	68.250
	Tampa Office Pond (3) 1994-95	Zinc, Total (ug/L as Zn)	Outflow	46		ug/L	8.336
	Waterford (WF) Pond	Zinc, Total (ug/L as Zn)	Outflow	8		ug/L	36.132

Table F-7

### Summarized Wetland Channel EMC Data

BMP				D-4			
Type	BMP Name	Parameter	In/Out	Data points (valid)	Arithmetic mean		Arithmetic
WC	Silver Star Rd Wetland	Lead, Dissolved (ug/L as Pb)	Inflow	12	9.021	units	StDev
WC	Silver Star Rd Wetland	Lead, Dissolved (ug/L as Pb)	Outflow	G	4.393	ug/t	1.855
WC	Tanners Lake Wetland	Lead, Total (ug/L as Pb)	Introw	17	4.393 33.136	ug/L	1.800
WC	Tanners Lake Wettand	Lead, Total (ug/L as Pb)	Outflow	3	6.795	ug/L	48.659
WC	Silver Star Rd Wetland	Lead, Total (ug/), as Ph)	Inflow	12		ug/L	4.970
ŴC	Silver Star Rd Wetland	Lead. Total (ug/L as Pb)	Outflow	6	50.411	ug/L	45.380
WC	Lake McCarrons Wetland	Lead, Total (ug/L as Pb)	Outflow	24	15.787	ug/L	13.392
WC	Lake McCarrons Wetland	Lead, Fotal (ug/L as Pb)	Inflow	23	7.926	ug/L	12.756
WC	Tanners Lake Wetland	Nitrogen, Kjeldalil, Total (mg/L as N)	inflow	17	30.538	ug/L	44.862
WC	Tanners Lake Wetland	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	4	1.726	mg/L	0.631
WC	Lake McCarrons Wetland	Nitrogen, Kjeldahi, Total (mg/L as N)	Inflow	23	1.489	mg/L	0.713
WC	Lake McCarrons Wetland	Nitrogen, Kjeldahl, Total (mg/L as N)	Outlow	24	1.681	mg/L	0.771
WC	Tanners Lake Wetland	Phosphorous, Total (mg/L as P)	inflow	17	1.290	mg/L	0.585
WC	Tanners Lake Wetland	Phosphorous, Total (mg/L as P)	Outflow	4	0.474	mg/L	0.185
WC	Silver Star Rd Wetland	Phosphorous, Total (mg/L as P)	Inflow	12	0.345	mg/L	0.096
WC	Silver Star Rd Wetland	Phosphorous, Total (mg/L as P)	Outflow	6	0.117 0.094	mg/L	0.048
WC	Lake McCarrons Wetland	Phosphorous, Total (mg/L as P)	inflow	23		mg/L	0.029
WC	Lake McCarrons Wetland	Phosphorous, Total (mg/L as P)	Outflow	24	0.333	mg/L	0.196
WC	Tanners Lake Wetfand	Solids, Total Suspended (mg/L)	Influw	17	0.226	mg/L	0.141
WC	Tanners t,ako Wetland	Solida, Total Suspended (mg/L)	Outflow	3	165.842	mg/L	213.775
WC	Silver Star Rd Wetland	Solids, Total Suspended (mg/L)	Inflow	12	18.612	mg/L	5.521
WC	Silver Star Rd Wettand	Solids, Total Suspended (mg/l)	Outflow	6	166.435	mg/L	48.547
WC	Lake McCarrons Wetland	Solids, Total Suspended (mg/L)	Outflow	24	133.793	mg/L	53.513
WC	Lake McCarrons Wetland	Solids, Total Suspended (mg/L)	Inflow	23	24.177	mg/L	38.441
WC	Silver Star Rd Wetland	Zinc, Dissolved (ug/L as Zn)	Outflow		121.527	mg/L	172.078
WC	Silver Star Rd Wetland	Zinc, Dissolved (ug/L as Zn)	Inflow	6	11.482	ug/L	8.890
WC	Silver Star Rd Wetland	Zinc, Total (ug/L as Zn)	inflow	12	60.392	ug/l	70.848
WC	Silver Star Rd Wetland	Zinc, Total (ug/L as Zn)		12	102,840	ug/L	82.193
	Transfer and transfer	zaro, rotar (ogr., as zn)	Oulllow	6	33,502	ug/L	16,853

Table F-8

# Summarized Biofilter EMC Data

ВМР		Summanzed Digit	HE ENC L				
Type	BMP Name	Parameter	in/Out	Data points (valid)	Arithmetic		Arithmetic
BI	Carlsbad strip	Copper, Dissolved (ug/L as Cu)	Inflow	12	mean 44,379	units ug/L	StDev 30.686
. Bl	Cartsbud strip	Copper, Dissolved (ug/L as Cu)	Oulllow	9	5.926	ug/L	4,104
Bį	Altadena Strip	Copper, Dissolved (ug/L as Cu)	Outflow	12	3.894	ug/L	3.456
BI	Altadena Strip	Copper, Dissolved (ug/L as Cu)	Inflow	11	4.396	ug/L	3.873
BS BS	Meirose Meirose	Copper, Dissolved (ng/L as Cu)	Inflow	10	20.077	ug/L	13.561
BS	Bioswale Non-Native West	Copper, Dissolved (ug/L as Cu)	Outflow	5	5.349	ug/L	1.686
BS	Bioswale Non-Native West	Copper, Dissolved (ug/L as Cu)	inflow	6	11.506	ug/L	5.288
es	Dayton Bioliller - Grass Swale	Copper, Dissolved (ug/L as Cu)	Outflow	6	10.275	ug/L	5.845
B\$	Dayton Biofilter - Grass Swale	Copper, Dissolved (ug/L as Cu) Copper, Dissolved (ug/L as Cu)	Inflow	8	4.810	ug/L	2.396
BS	Cerritos	Copper, Dissolved (ug/L as Cu)	Outflow	8	3.628	ug/L	1.271
BS	Del Amo	Copper, Dissolved (ug/L as Cu)	Inflow	10 8	34.329	ug/L	39.246
BS	Del Amo	Copper, Dissolved (ug/L as Cu)	Outflow	G	27.337 16.923	ug/L	22.277
BS	5/605 swale	Copper, Dissolved (ug/L as Cu)	Otiliow	4	11.664	ug/L	8.854
BS	5/605 swale	Copper, Dissolved (ug/L as Cu)	Inflow	4	12.980	ug/L ug/L	17.605 11.680
BS	Bloswale Native East	Copper, Dissolved (ug/L as Cu)	Inflow	6	11.693	ug/t.	5.461
BS	Bioswale Native East	Copper, Dissolved (ug/L as Cu)	Outflow	6	9.901	ug/L	5.277
BL	Carlsbad strlp	Copper, Total (ug/L as Cu)	inflow	12	83.078	ug/L	30.744
8I	Carlsbad strip	Copper, Total (ug/L as Cu)	Outflow	9	9.422	ug/L	4.474
BI	Altadena Strip	Copper, Total (ug/L as Cu)	Inflow	11	9.283	ug/L	10.302
BI BS	Altadena Strip	Copper, Total (ug/L as Cu)	Outflow	12	4.838	ug/L	4.545
BS	Melrose Melrose	Copper, Total (ug/L as Cu)	Outflow	5	11.050	ug/L	4.155
BS	Swale - F8	Copper, Total (ug/L as Cu)	Inflow	10	36.024	ug/t.	12.773
BS	Swale - F8	Copper, Total (ug/L as Cu) Copper, Total (ug/L as Cu)	Outflow	23	10.012	ug/L	7.685
BS	Swale - F6	Copper, Total (ug/L as Cu)	lisflow	29	10.202	ug/L	9.260
BS	Swaie - F6	Copper, Total (ug/L as Cu)	Outflow	20	4.180	ug/L	4.625
88	Bloswale Non-Native West	Copper, Total (ug/L as Cu)	inflow Outflow	29	10.202	ug/L	9.260
BS	Bioswale Non-Native West	Copper, Total (ug/L as Cu)	Inflow	6	21.246	ug/L	8.367
BS	Dayton Biofilter - Grass Swale	Copper, Total (ug/L as Cu)	Outflow	6 8	36,827	ug/L	14.281
D\$	Dayton Biofilter - Grass Swale	Copper, Total (ug/L as Cu)	inflow	8	5,655	ug/L	3.220
B\$	Cerritos	Copper, Total (ug/L as Cu)	Inflow	10	10.768 78,159	ug/L	8.849
BS	Del Amo	Copper, Total (ug/L as Cu)	Inflow	8	65,792	ug/l.	107.232
BS	Del Amo	Copper, Total (ug/L as Cu)	Outflow	6	22.728	ug/L ug/L	68.344 13.295
BS	5/605 swale	Copper, Total (ug/L as Cu)	Inflow	4	21.803	ug/L	21.523
BS	5/605 swale	Copper, Total (ug/L as Cu)	Outflow	4	15.768	ug/L	26,323
BS	Swale - F4	Copper, Total (ug/Las Cu)	Outflow	26	4.485	ug/L	4.905
BS	Swale - F4	Copper, Total (ug/L as Cu)	Inflow	29	10.202	ug/l	9.260
BS BS	Bioswale Native East	Copper, Total (ug/L as Cu)	Outflow	6	19.754	ug/L	7.480
BS BI	Bioswale Native East	Copper, Total (ug/L as Cu)	Inflow	5	39.478	ug/L	15.158
BI	Carlsbad strip Carlsbad strip	Lead, Dissolved (ug/L as Pb)	Inflow	12	2.947	ug/L	2.643
Bi	Altadena Strip	Lead, Dissolved (ug/L as Pb)	Outflow	9	1.362	ug/L	0.642
BI	Alladena Strip	Lead, Dissolved (ug/L as Pti)	Outflow	12	1.338	ug/L	0.493
88	Melrose	Lead, Dissolved (ug/L as Pb)	Inflow	11	2.121	ug/L	1.974
BS	Melrose	Lead, Dissolved (ug/L as Pb) Lead, Dissolved (ug/L as Pb)	Oulflow	5	1.290	ug/L	0.386
BS	Bioswale Non-Native West	Lead, Dissolved (ug/L as Pb)	Inflow	10	1.759	ug/L	0.815
BS	Bioswale Non-Native West	Lead, Dissolved (ug/L as Pb)	Outflow	6	0.620	ug/l	0.339
BS	Dayton Biofilter - Grass Swale	Lead, Dissolved (ug/L as Pb)	Inflow	6 8	0.684	ug/L	0.245
BS	Dayton Biotiffer - Grass Swale	Lead, Dissolved (ug/L as Pb)	Outllow	8	3,305 2,580	ug/L	4.232
BS	Cerritos	Lead, Dissolved (ug/L as Pb)	Inflow	10	19.289	ug/L	2.585
BS	Del Amo	Lead, Dissolved (ug/L as Ph)	Inflow	8	86.136	eg/L ug/L	24.411 198.469
BS	Del Amo	Lead, Dissolved (ug/L as Pb)	Outflow	6	24.830	ug/L	15.934
BS	5/605 swale	Lead, Dissolved (ug/L as Pb)	Inflow	4	13.857	ug/L	11.308
BS	5/605 swale	Lead, Dissolved (ug/L as Pb)	Outflow	4	10,658	ug/L	14.399
B\$	Bioswale Native East	Lead, Dissolved (ug/L as Pb)	Outflow	6	0.586	ug/L	0.355
BS BI	Bioswale Native East	Lead, Dissolved (ug/L as Pb)	Inflow	6	0.684	ug/L	0.245
BI	Wainut Creek Veg. Buffer Strip Carlsbad strip	Lead, Total (ug/L as Ph)	Outflow	4	74.368	ug/I	135.385
Bi	Carlsbad strip	Lead, Total (ug/L as Pb)	Outflow	9	6.954	ug/L	6.139
BI	Altadena Ship	Lead, Total (ug/L as Pb)	Inflow	12	53.724	ug/L	37.159
BI	Altadena Strip	Lead, Total (ug/L as Pb)	Outflow	12	3.936	ug/L	3.458
RS	Metrose	Lead, Total (ug/L as Pb)	Inflow	11	13.698	ug/L	19.131
BS	Melrose	Lead, Total (ug/L as Pb) Lead, Total (ug/L as Pb)	Inflow	10	10.444	ug/L	3.586
BS	Swale - F8	Lead, Total (ug/L as Pb)	Outflow	5	4.538	ug/L	2.822
BS	Swale - F8	Lead, Total (ug/L as Pb)	Outflow Inflow	22	3,583	ug/L	2.369
BS	Swale - F6	Lead, Total (ug/L as Ph)	Inflow	30 30	4.752	ug/L	4.035
BS	Swale - F6	Lead, Total (ug/L as Pb)	Outflow	30 20	4.752	ug/L	4.035
BS	Alta Vista Planned Development Detention	Lead. Total (no/Las Ph)	Outflow	20 19	2.082	ug/l.	0.883
BS	Alta Vista Planned Development Detention	flead, Total (ug/Llas Pb)	Inlow	19	2.811 3.718	ug/L	4 040
BS	Bioswale Non-Native West	Lead, Total (ug/L as Pb)	Inflow	6	27.929	ug/L	8.130
88	Bloswale Non-Native West	Lead, Total (ug/t. as Pb)	Outflow	6	11.641	ug/L	13.722
BS	Dayton Biofilter - Grass Swale	Lead. Total (ug/L as Ph)	inflow	8	35.168	ug/L ug/l	3.791 53.301
BS		Lead, Total (ug/L as Pb)	Outflow	8	10.623	ug/L	53.301 11 722
88	Cerritos	Lead, Total (ug/L as Pb)	Inflow	10	139.314	ug/L	231.164
						-9-	201.104

Table F-8

# Summarized Biofilter EMC Data

BMP				Data points	Arithmetic		Arithmetic
Гуре	BMP Name	Parameter	In/Out	(valid)	mean	units	StDev
S	Oel Amo	Lead, Total (ug/L as Pb)	Inflow	8	452.447	ug/L	791.90
s	Del Amo	Lead, Total (ug/t. as Pb)	Outflow	- 6	81.893	ug/l	63.741
S	5/605 swale	Lead, Total (ug/L as Pb)	Outflow	4	28.292	ug/L	61.174
S	5/605 swale	Lead, Total (ug/L as Pb)	Inflow	4	45,165	ug/L	55.981
3	Swale - F4	Lead, Total (ug/L as Pb)	Outflow	26	1.987	ug/L	0.715
š	Swale - F4	Lead, Total (ug/L as Pb)	Inflow	30	4.752	ug/L	4.035
S	Bioswale Native East	Lead, Total (ug/L as Pb)	Outtow	6	10.603	ug/L	3,409
S	Bioswale Native East	Lead, Total (ug/L as Pb)	Inflow	6	27.929	ug/L	13,722
	Walnut Creek Veg. Bufter Strip	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	4	1,562	mg/l,	1.364
I	Carlsbad strip	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	y	1.544	mg/L	0.891
1	Carlsbad strip	Nitrogen, Kjeklahl, Total (mg/i. as N)	Inflow	12	2.937	mg/L	1.636
1	Altadena Strip	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	12	1.884	mg/L	2.101
_	Altadena Strip	Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	11	1.680	mg/L	2.163
S	Melrose	Nitrogen, Kjeldahl, Total (mg/L as N)	inflow	10	3.378	mg/L	2.229
\$	Melrose	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	5	1.640	mg/L	0.536
5	Bioswale Non-Native West	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	6	1.504	mg/L	0.859
8	Bioswale Non-Native West	Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	6	2.106	mg/L	1.268
3	Cerritos	Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	10	4.427	mg/L	8.086
3	Del Amo	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	6	2.820	mg/L	
3	Del Amo	Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	8	3.430	_	1.834
3	5/605 swale	Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	4	2.267	mg/L	2.475
	5/605 swale	Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	4		mg/l	5.268
3	Bioswale Native East	Nitrogen, Kieldahi, Total (mg/L as N)	Outflow	6	1.884	mg/L	3.797
i	Bioswale Native East	Nilrogen, Kjeldahl, Total (mg/L as N)	Inflow	6	1.430	mg/L	0.794
;	Bioretention Area	Oil and Grease (mg/L)	Inflow	5	2.108	mg/L	1.266
	Bioretention Area	Oil and Grease (mg/L)	Outflow	5 5	20.440	mg/L	32,519
1	Dayton Blofilter - Grass Swale	Oil and Grease (mg/L)	Inflow	5	5,011	mg/L	0.724
	Dayton Biofilter - Grass Swale	Oil and Grease (mg/L)	Quillow	5	0.247	mg/L	0.234
	Walnut Creek Veg. Buffer Strip	Phosphorous, Tolal (mg/L as P)	Outflow	9	0.401	mg/L	0.496
	US 183 at MoPac Grass Filter Strip	Phosphorous, Total (mg/L as P)	Outflow		0.154	mg/L	0.103
	Carlsbad strip	Phosphorous, Total (mg/L as P)		3	0.514	mg/t.	0.632
	Carlsbad strip	Phosphorous, Total (mg/L as P)	Outflow	9	1.035	mg/L	1.682
	Altadena Strip	Phosphorous, Total (mg/L as P)	Inflow	12	0.522	mg/L	0.380
	Altadena Strip		Inflow	11	0.127	mg/L	0.247
	Bioretention Area	Phosphorous, Total (mg/L as P)	Outflow	12	0.446	mgÆ	0.399
	Bloretention Area	Phosphorous, Total (mg/L as P)	Outflow	6	0.359	mg∕t	0.383
	Melrose	Phosphorous, Total (mg/L as P)	Inflow	20	0.286	mg/L	0.197
	Melrose	Phosphorous, Total (mg/L as P)	Inflow	9	0.180	mg/L	0.087
	Swale - F8	Phosphorous, Total (mg/L as P)	Oulflow	4	0.410	mg/L	0.097
	Swale - F8	Phosphorous, Total (mg/L as P)	Outflow	23	0.278	mg/Ł	0.349
	Swale - F6	Phosphorous, Total (mg/L as P)	inflow	30	0.100	mg/L	0.127
	Swale - F6	Phosphorous, Total (mg/L as P)	Outflow	20	0.185	mg/L	0.192
		Phosphorous, Total (mg/l. as P)	Inflow	30	0.100	mg/L	0.127
i	Alta Vista Planned Development Detention	(Phosphorous, Total (mg/L as P)	Outflow	19	0.839	mg/L	0.292
	Alta Vista Planned Development Detention	Phosphorous, Total (mg/L as P)	Inflow	19	0.452	mg/L	0,225
	Bioswale Non-Native West	Phosphorous, Tutal (mg/L as P)	Outflow	6	0.308	mg/l	0.129
	Bioswale Non-Native West	Phosphorous, Total (mg/L as P)	Inflow	6	0.443	mg/L	0.491
	Dayton Biofilter - Grass Swale	Phosphorous, Total (mg/L as P)	Outflow	8	0.506	mg/L	0.165
	Dayton Biofilter - Grass Swale	Phosphorous, Total (mg/L, as P)	Inflow	8	0.194	mg/L	0.186
	Cerritos	Phosphorous, Total (mg/L as P)	inflow	10	0.340	mg/L	0.328
	Det Amo	Phosphorous, Total (mg/L as P)	Outflow	6	0.700	mg/L	0.562
	Del Amo	Phosphorous, Total (mg/L as P)	Inflow	8	0.239	mg/L	0.189
	5/605 swale	Phosphorous, Total (mg/L as P)	inflow	4	0.088	mg/L	0.017
	5/605 swale	Phosphorous, Total (mg/L as P)	Outflow	4	0.234	mg/L	0.060
	Swale - F4	Phosphorous, Total (mg/L as P)	Inflow	30	0.100	mg/L	0.127
	Swale - F1	Phosphorous, Total (mg/L as P)	Outflow	24	0.223	mg/L	0.127
	Bloswale Native East	Phosphorous, Total (mg/L as P)	Outflow	6	0.321	mg/L	0.227
	Bioswale Native East	Phosphorous, Total (mg/L as P)	Inflow	6	0.443	mg/L	0.131
	Walnut Creek Veg. Buffer Strip	Solids, Total Suspended (mg/L)	Outflow	10	47.625	mg/L	
	US 183 at MoPac Grass Filter Strip	Solids Total Suspended (mo/L)	Outflow	3	61.041	mg/L	42.135
	Alta Vista Planned Development Detention	Solids, Total Suspended (mg/l.)	Outflow	19	21.636	-	142.038
	Alta Vista Planned Development Detention	Solids, Total Suspended (mg/L)	Inflow	19	27.1 <del>9</del> 4	mg/L	18.288
	Dayton Biofitter - Grass Swale	Solids, Total Suspended (mg/L)	Inflow	8	42,121	mg/l_	21.253
	Dayton Biofilter - Grass Swale	Solids, Total Suspended (mg/L)	Outflow	. 8	14.001	mg/L	55.526
	Carlsbad strip	Zinc, Dissolved (ug/L as Zn)	Outflow	9		mg/L	12.340
	Carlsbad strip	Zinc, Dissolved (ug/L as Zn)	Inflow	12	40.184	ug/L	21.773
	• 4 • 4	Zinc, Dissolved (ug/L as Zn)	Inflow		179.492	ug/L	145,222
	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Zinc, Dissolved (ug/L as Zn)	Outflow	11	48,080	ug/L	52.076
		Zinc, Dissolved (ug/L as 7n) Zinc, Dissolved (ug/L as Zn)		12	29.217	ug/L	33,292
	A Barbara and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second a second and	Zinc, Dissolved (ug/L as Zn) Zinc, Dissolved (ug/L as Zn)	Outflow	5	24.887	ug/L	4.834
	DO: The second second		Inflow	10	273.303	ug/L	210.085
	O'	Zinc, Dissolved (ug/L as Zn)	Outflow	6	28.909	ug/L	7.690
	<b>-</b>	Zinc, Dissolved (ug/L as Zn)	Inflow	6	42.770	ug/L	12.749
	Destar District	Zinc, Dissolved (ug/l. as Zn)	Outflow	8	34.964	ug/l	111.212
		Zinc, Dissolved (ug/L as Zn)	Inflow	8	64.626	ug/L	278.068
	Certifos	Zinc, Dissolved (ug/L as Zn)	Inflow	10	177.037	ug/L	189.724
	Del Amo	Zinc, Dissolved (ug/L as Zn)	Outtlow				

Table F-8

#### Summarized Biofilter EMC Data

BMP Type BS	BMP Name	Parameter	In/Out	Data points (valid)	Arithmetic mean	units	Arithmetic StDev
35 35	Det Amo	Zinc, Dissolved (ug/L as Zn)	Inflow	8	135,615	ug/L	159,745
	5/605 swale	Zinc, Dissolved (ug/L as Zn)	Inflow	4	70.256	ug/L	45.146
s	5/605 swale	Zinc, Dissolved (ug/L as Zn)	Outflow	1	35.237	ug/L	41.760
S	Bioswale Native East	Zinc, Dissolved (ug/L as Zn)	Inflow	6	42,770	ug/L	12.749
\$	Bloswale Native Fast	Zinc, Dissolved (ug/L as Zn)	Outflow	Ğ	25.679	ug/L	11,245
1	Walnut Creek Veg. Buffer Strip	Zinc, Total (ug/L as Zn)	Outflow	8	32.476	ug/L	28,146
l	US 183 at MoPac Grass Filler Strip	Zinc, Total (ug/L as Zn)	Outflow	3	25.325	-	
!	Carlsbad strip	Zinc, Total (ug/L as Zn)	Outflow	9	67.538	ug/L	46.445
	Carlshad strip	Zinc, Total (ug/L as Zn)	Inflow	12	373,478	ug/L	34.285
	Altadena Strip	Zinc, Total (ug/L as Zn)	Inflow	11	86.594	ug/L	196,103
_	Altadena Strip	Zinc, Total (ug/L as Zn)	Outliow	12	36.268	ug/l	85.744
S	Melrose	Zinc, Total (ug/Las Zn)	Inflow	10	371.725	ug/L	38.054
5	Melrose	Zinc, Total (ug/L as Zn)	Outflow	5	51.782	ug/L	173,459
•	Swale - F8	Zinc, Total (ug/L as Zn)	Outflow	21	42.887	ug/L	25.589
•	Swale - F8	Zinc, Total (ug/L as Zn)	Inflow	31	46.803	ug/L	22.794
>	Swale - F6	Zinc, Total (ug/L as Zn)	Outflow	20	29.533	ug/L	27.404
3	Swale - F6	Zinc, Total (ug/L, as Zn)	hillow	31	46.803	սց/Լ	4.296
3	Alta Vista Planned Development Dete	ntic Zinc, Total (ug/L as Zn)	intiow	19	18.924	ug/l	27.404
S	Alta Vista Planned Development Deter	ntic Zinc, Total (ug/l, as Zn)	Outflow	19	16,869	ug/L	7.739
•	Bioswale Non-Native West	Zinc, Total (ug/L as Zn)	Outflow	6		ug/L	9.855
•	Bioswale Non-Native West	Zinc, Total (ug/L as Zn)	inflow	6	79.335	ug/L	24.526
,	Dayton Biofilter - Grass Swale	Zinc, Total (ug/L as Zn)	Outflow	8	192.728	ug/L	83,902
5	Dayton Biofilter - Grass Swale	Zinc, Jotal (ug/L as Zn)	Inflow	8	31,171	ug/L	15,397
\$	Cerritos	Zinc, Total (ng/L as Zn)	Inflow	10	57.393	ug/L	51.254
3	Del Amo	Zinc, Total (ug/L as /n)	inflow	8	489.289	ug/L	704.432
;	Del Amo	Zinc, Total (ug/L as Zn)	Outflow	6	359.737	ug/L	144.103
i	5/605 swale	Zinc, Total (ug/L as Zn)	Inflow	4	92.295	ug/L	76.134
	5/605 swale	Zinc, Total (ng/L as Zn)	Outflow	4	215.215	ug/l	243.410
	Swale - F4	Zinc, Total (ug/L as /n)	Outflow	26	53.254	ug/t.	83.016
ì	Swale - F4	Zinc, Total (ug/L as Zn)	Inflow	26 31	30.487	ug/L	14.640
;	Bioswale Native East	Zinc, Total (ug/L as Zn)	Outflow	6	46.803	ug/L	27.404
5	Bioswale Native East	Zinc, Total (ug/L as Zn)	Inflow		69.501	ug/L	23.937
		topic of the	BHICAY	6	192.728	ug/L	83.902

Table F-9
Summarized Hydrodynamic Separator EMC Data

ЗМР Гуре	BMP Name	Parameter	In/Out	Data points (valid)	Arithmetic mean	anits	Arithmeti StDev
ID	Orcus	Copper, Dissolved (ug/L as Cu)	Outflow	4	9.691	Hg/L	3.206
D	Orcas	Copper, Dissolved (ug/L as Cu)	Inflow	4	8.729	∪g/L	1.798
9	MCTT Catchbasin	Copper, Dissolved (ug/L as Cu)	inflow	13	16.682	ug/L	8.804
•	MCTT Catchbasin	Copper, Dissolved (ug/L as Cu)	Outflow	13	26,802	ug/l.	19.13
)	Filmare CDS	Copper, Dissolved (ng/L as Cu)	Inflow	7	98 799	ug/L	547.76
)	Filmore CDS	Copper, Dissolved (ug/L as Cu)	Outflow	7	7.689	ug/L	2.243
)	Addison-Wesley Incterceptor	Copper, Dissolved (ug/L as Cu)	Inflow	6	38,691	ng/L	9.065
)	Addison-Wesley Incherceptor	Copper, Dissolved (ug/L as Cu)	Outflow	Ğ	36.142	սց/է	13,61
)	MCTT Milwaukee	Copper, Dissolved (ug/L as Cu)	inflow	15	6,017		
)	MCTT Milwaukee	Copper, Dissolved (ug/L as Cu)	Outflow	15		ug/L	4.189
•	Sacramento Stormvault	Copper, Dissolved (ug/L as Cu)	lottow		1.751	ug/L	1.13
)	Sacramento Stormyault	Copper, Dissolved (ug/L as Cu)		t0	22.287	ug/L	22,16
)	Urban Storm Treatment Unit In Madison, Wisconsin		Outflow	10	10.201	ng/L	0.569
1	Urban Storm Treatment Unit in Madison, Wiscurisin	Copper, Dissolved (ug/L as Cu)	Outflow	13	5.911	ug/L	5.82
í	Orcas	Copper, Dissolved (ug/L as Cu)	Inflow	13	6.159	ug/L	8.063
		Copper, Total (ug/L as Cu)	Inflow	4	21.427	ug∕L	10,47
	Orcas	Copper, Total (ug/L ns Cu)	Outflow	4	14.132	ug/L	3.803
)	MCTT Minocqua	Copper, Total (ug/L as Cu)	Outflow	7	18,310	ug/L	15.11
1	MCTT Minocqua	Copper, Total (ug/L as Cu)	Inflow	7	34,752	ug/L	20,32
)	MCTT Catchbasin	Copper, Total (ug/L as Cu)	Outflow	13	24.730	ug/L	12.83
)	MCTT Catchbasin	Copper, Total (ug/L as Cu)	Inflow	13	50.089		
1	Filmore CDS	Copper, Total (ug/L as Cu)	Inflow	7		ug/L	128.34
•	Filmore CDS	Copper, Total (ug/L as Cu)	Outflow	7	20.726	ug/L	14.54
+	Addison-Wesley Incherceptor				15.513	ug/L	5.566
	Addison-Wesley Incterceptor	Copper, Total (ug/L as Cu)	Outflow	6	6.348	ug/L	1.475
	Stormceptor STC 3600	Copper, Total (ug/Las Cu)	Inflow	6	12,634	ug/L	7.943
	Stormceptor STC 3600	Copper, Total (ug/L as Cu)	Inflow	5	14.414	ug/l.	5.170
	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Copper, Total (ug/L as Cu)	Outflow	4	11.779	ug/L	7.597
	MCTT Milwaukee	Copper, Total (ug/L as Cu)	Outflow	15	3.389	ug/L	1.411
	MCTT Milwankee	Copper, Total (ug/L as Cu)	Inflow	15	32.326	Ug/L	13.83
	Urban Storm Treatment Unit in Madison, Wisconsin	Copper, Total (ug/L as Cu)	Inflow	13	27.488	ug/L	15.21
	Urban Storm Treatment Unit in Madison, Wisconsin	Copper, Total (ug/L as Cu)	Outflow	13	19,494	ug/L	9.613
	ARC Oil Seperator	Copper, Total (ug/L as Cu)	Inflow	9	15.837	ug/L	11.13
	ARC Oil Seperator	Copper, Total (ug/L as Cu)	Outflow	9	11,491	-	
	Orcas	Lead, Dissolved (ug/l. as Pb)				ug/L	8,224
	Orcas	Lead, Dissolved (ug/L as Pb)	Inflow	4	1.312	ug/L	0.363
	MCTT Catchbasin		Outflow	4	1.832	ug/Ł	1.185
	MCTT Catchbasin	Lead, Dissolved (ug/L as Pb)	Outflow	13	3,579	∪g/L	2.928
		Lead, Dissolved (ug/L as Pb)	Inflow	13	2.919	ug/L	2.187
	Filmore COS	Lead, Dissolved (ug/Las Pb)	inflow	7	3 802	ug/L	3.337
	Filmore CDS	Load, Dissolved (ug/L as Pb)	Outflow	7	2.183	ug/L	1,408
	Addison-Wesley Incterceptor	Lead, Dissolved (ug/L as Pb)	Inflow	6	0.500	ug/L	0.000
	Addison-Wesley Inclerceptor	Lead, Dissolved (ug/L as Ph)	Outflow	6	0.500	ug/L	0.000
	MCTT Milwankee	Lead, Dissolved (ug/t as Pb)	Outflow	15	0.582	ug/L	0.276
+	MCTT Milwaukee	Lead, Dissolved (ug/L as Pb)	Inflow	15	1.513		
	Sacramento Stormvault	Lead, Dissolved (ug/L as Pb)	Outflow	10		ug/L	1.800
	Sacramento Stormvault	Lead, Dissolved (ug/L as Pb)	Inflow	10	4.603	ug/L	5.503
	Urban Storm Treatment Unit in Madison, Wisconsin	Lead, Dissolved (ug/L as Pb)			6.989	ug/L	10 664
	Urban Storm Treatment Unit in Madison, Wisconsin		≀nflow	13	2.320	ug/L	2.500
	Orcas	Lead, Dissolved (ug/L as Pb)	Outflow	13	3.752	ugA,	4.832
	Oreas	Lead, Total (ug/L as Pb)	Outflow	4	4.826	ugÆ	1.974
		Lead, Total (ug/L as Pb)	Inflow	4	14.716	ug/L	16.934
	MCTT Minocqua	Lead, Total (ug/L as Pb)	Outflow	7	27.523	ug/L	135.46
	MC11 Minocqua	Lead, Total (ug/L as Pb)	Inflow	7	65.393	πg/L	77.814
	MCTT Catchbasin	Lead, Tutal (ug/L as Pb)	Outflow	13	19.002	ug/L	19.268
	MCTT Catchbasin	Lead, Total (ug/L as Pb)	Inflow	13	21.231	ug/L	19.342
	Filmore CDS	Lead, Total (ug/L as Pb)	Oulflow	7	10.257	_	6.657
	Filmore CDS	Lead, Total (ug/L as Pb)	Inflow	6		ug/L	
	Addison-Wesley Inderceptor	Lead, Total (ug/L as Pb)			10.025	ug/l	7.695
	Addison-Wesley Incterceptor		Inflow	6	4.115	ug/Ł	2.585
	MCTT Milwaukee	Lead, Total (ug/L as Pb)	Outflow	6	1.779	ug/L	0.429
		Lead, Total (ug/L as Pb)	luflow	15	48.831	ug/L	21.004
	MCTT Milwaukee	Lead, Total (ug/L as Pb)	Outflow	15	1.900	ug/L	0.999
	Urban Storm Treatment Unit In Madison, Wisconsin	Lead, 1otal (ug/L as Ph)	Inflow	13	41.524	υg/L	36,889
	Urhan Storm Treatment Unit in Madison, Wisconsin	Lead, Total (ug/L as Pb)	Outflow	13	28,296	ug/L	23,233
	ARG Oil Seperator	Lead, Total (ug/L as Pb)	Inflow	9	22.716	ug/L	15.905
	ARC Oil Seperator	Lead, Total (vg/L as Pb)	Outflow	9	16.435	ug/L	9.407
	Orcas	Nitrogen, Kjeldahl, Total (mg/t_as N)	Outflow	4	12.537		
	Orcas	Nitrogen, Kjeldahi, Total (mg/L as N)	Inflow	4		mg/Ľ ∞oë	356.770
	Filmore CDS	Nitrogen, Kjeldahl, Total (mg/L as N)			6 371	mg/i.	113.721
	Filmore CDS	Nitrogen, Kjeldahi, Total (mg/L as N) Nitrogen, Kjeldahi, Total (mg/L as N)	Outflow	7	1.883	mg/L	8.399
	Sacramento Stormvautt		Inflow	7	2.799	mg/L	13.934
	Sacramento Stormvault	Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	10	2.002	mg/L	1.461
		Nitrogen, Kjeldahl, Total (mg/L as N)	Outflow	10	0.926	mg/l	0.456
	ARC Oil Seperator	Nitrogen, Kjeldahl, Total (mg/L as N)	Inflow	9	25.062	mg/L	127.323
	ARC Oil Seperator	Nitrogen, Kjeldahl, Total (mg/L as N)	Outllow	9	4.681	mg/L	7.556
	Stormceptor STC 3600	Oil and Grease (mg/L)	Outflow	3	5.378	mg/L	0.619
	Stormceptor STC 3600	Oil and Grease (mg/L)	Inflow	4	7.992	mg/L	1.093
	Sacramento Stormyault	Oil and Grease (mg/L)	Inflow	10	10 000		
	Sacramento Stormyault	Oil and Grease (mg/L)				mg/L	0.000
	ARC Oil Seperator		Outflow	10	10,000	mg/L	0.000
		Oil and Grease (mg/L)	Inflow	8	4.791	mg/L	4.078
	ARC Oil Seperator	Oil and Grease (rng/L)	Outflow	8	3.241	mg/L	1.531
	Orcas	Phosphorous, Total (mg/L as P)	Outflow	4	0.149	mg/L	0.040
	Orcas	Phosphorous, Total (mg/L as P)	Inflow	4	0.186	mg/L	0.085
	MCTT Minocqua	Phosphorous, Total (mg/L as P)	Inflow	7	0.239		
	MCTT Minoequa	Phosphorous, Total (mg/L as P)	Outflow	7		mg/L	0.012
	Filmore CDS	Phosphorous, Total (ing/L as P)			0.127	mg/L	0.108
			Outflow	7	0.136	mg/L	0.036
	Filmore CDS Stormceptor STC 3500	Phosphorous, Total (mg/L as P) Phosphorous, Total (mg/L as P)	inflow Inflow	6	3,527 0.793	mg/L	44.734

#### Table F-9

# Summarized Hydrodynamic Separator EMC Data

		· · · · · / · · · · · · · · · · · · · ·					
HD	Stormceptor STC 3600	Phosphorous, Total (mg/Las P)	Outflow	5	0.275	rng/L	0.252
HD	Sunsel Park Baffie Box #2	Phosphorous, Total (mg/L as P)	Outflow	3	1.022	mg/L	0.555
HD	Sunset Park Baffle Box #2	Phosphorous, Total (mg/L as P)	Intlow	3	1,909	mg/L	1.688
HD	MCTT Milwaukee	Phosphorous, Total (mg/L as P)	Inflow	15	0,274	mg/L	0.099
HD	MCTT Milwaukee	Phosphorous, Total (mg/L as P)	Outflow	15	0.032	mg/L	0.018
HD	Sacramento Stormvault	Phosphorous, Total (mg/L as P)	inflow	9	0.248	ma/L	0.232
HD	Sacramento Stormvault	Phosphorous, Total (mg/L as P)	Oulflow	10	0.134	mg/L	0.043
HD	ARC Oil Seperator	Phosphorous, Total (mg/L as P)	Inflow	8	4,656	mg/L	2.042
HD	ARC Oit Seperator	Phosphorous, Total (mg/L as P)	Outflow	8	5.360	mg/L	4,131
HD	CDS Unit	Phusphorous, Total (mg/L as P)	Inflow	4	1.009	mg/L	0.845
HD	CDS Unit	Phosphorous, Total (mg/L as P)	Outflow	4	0.889	mg/L	0.893
но	MCTT Minocqua	Solids, Total Suspended (mg/L)	Outflow	7	14.177	rrig/L	31.046
HĐ	MCTT Minocqua	Solids, Total Suspended (mg/L)	Inflow	7	252.984	mg/L	254.020
HĐ	MCTT Calchhasin	Solids, Total Suspended (mg/L)	Outflow	13	40.344	mg/L	51,387
HD	MCTT Catchbasin	Solids, Total Suspended (mg/L)	Inflow	13	52.761	mg/L	62.156
HD	Addison-Wesley Incherceptor	Solids, Total Suspended (mg/L)	Inflow	6	664.085	mg/L	1005,618
HD	Addison-Wesley Incherceptor	Solids, Total Suspended (mg/L)	Outflow	6	215,523	mg/L	313,527
HD	MCTT Milwaukee	Solids, Total Suspended (mg/L)	Outliaw	13	6.200	mg/L	2.427
HD	MCTT Milwaukee	Solids, Total Suspended (mg/L)	Inflow	15	312,338	mg/L	211.176
HD	Urban Storm Treatment Unit in Madison, Wisconsin	Solids, Total Suspended (mg/L)	Inflow	45	345.594	mg/L	365.542
HO	Urban Slorm Treatment Unit in Madison, Wisconsin	Solids, Total Suspended (mg/L)	Outflow	45	187.819	mg/L	157.010
HD	ARC Oil Seperator	Solids, Total Suspended (mg/L)	Outflow	9	96,754	mg/L	63.075
HD	ARC Oil Seperator	Solids, Total Suspended (mg/L)	inflow	9	112.328	mg/L	86,335
HD	Orcas	Zinc, Dissolved (ug/L as Zn)	Inflow	4	48.370	ug/L	31.362
HD	Orcas	Zinc, Dissolved (ug/L as Zn)	Outflow	4	57.297	ug/L	38.947
HD	MCTT Catchbasin	Zinc, Olssolved (ug/L as Zn)	Inflow	13	25.065	ug/L	59.266
HD	MCTT Catchbasin	Zinc, Dissolved (ug/L as Zn)	Outflow	13	29,771	ug/L	47.160
HD	Filmore CDS	Zinc, Dissolved (ug/L as Zn)	Outflow	7	59.262	ug/L	23,938
HD	Filmore CDS	Zinc, Dissolved (ug/L as Zn)	Inflow	7	5286.411	ug/L	1477946,000
HD	Addison-Wesley Incherceptor	Zinc, Dissolved (ug/L as Zn)	wolfni	6	58,956	ug/L	70.271
HD HD	Addison-Wesley Incterceptor	Zinc, Dissolved (ug/L as Zn)	Outflow	6	48.120	ug/L	20.852
HD	MCTT Milwaukee	Zinc, Olssolved (ug/L as Zn)	Inflow	15	14.099	ug/Ł	8.458
HD	MCTT Milwaukee	Zinc, Dissolved (ug/L as Zn)	Outflow	15	8.855	ug/L	2.353
HD	Sacramento Stormvauti	Zinc, Dissolved (ug/L as Zn)	Outflow	10	28.236	ug/L	11.154
HD GH	Sacramento Stormvautt	Zinc, Dissolved (ug/L as Zn)	Inflow	10	79,807	ug/L	106.645
HD	Urban Storm Treatment Unit in Madison, Wisconsin	Zinc, Dissolved (ug/L as Zn)	Outflow	13	42.412	ug/L	30.643
HD	Urban Storm Treatment Unit in Madison, Wisconsin Orcas	Zinc, Dissolved (ug/t, as Zn)	Inflow	12	48.755	ug/L	50.199
		Zinc, Totał (ug/L as Zn)	inflow	4	137.829	ug/L	130,066
HD HD	Orcas	Zinc, Total (ug/Las Zn)	Outflow	4	74,704	ug/L	33,974
HD	MCTT Minocqua MCTT Minocqua	Zinc, Total (ug/L as Zn)	Outlow	7	16,263	ug/L	12.12B
HD	MCTT Catchbasin	Zinc, Total (ug/L as Zn)	luflow	7.	333.622	ug/L	873,101
##D	MCTT Catchbasin	Zinc, Total (ug/L as Zn)	Outflow	13	205.428	ug/L	354.865
HD	UVA Slormvault Phase I	Zinc, Total (ug/L as Zn)	Inflow	13	369.105	ug/L	617,569
HD	UVA Stormvault Phase (	Zinc, Total (ug/L as Zn)	Outflow	6	72.380	ug/L.	49.092
HD	Filmore CDS	Zinc, Total (ug/L as Zn)	inflow	6	153.416	ug/L	84.839
HD	Filmore CDS	Zinc, Total (ug/L as Zn)	Outflow	7	116,556	ug/L	47.136
HD	Addison-Wesley Incherceptor	Zinc, Total (ug/L as Zn)	Inflow	7	236.218	ยg/L	945.882
HD	Addison-Wesley Inderceptor	Zinc, Total (ug/1 as Zn)	Inflow	6	142,539	υg/L	109,713
HD	Stormceptor STC 3600	Zinc, Total (ug/L as Zn)	Outtlow	6	72.673	ug/L	19.554
HD	Stormceptor STC 3600	Zinc, Total (ug/L as Zn)	Outflow	4	89.659	ug/L	44.221
HO	MCTT Milwaukee	Zinc, Totał (ug/L as Zn)	Inflow	5	360,435	ug/L	493,546
HD	MCTT Milwaukee	Zinc, Total (ug/L as Zn)	Outflow	15	22.174	ug/L	6.365
HD	Urban Storm Treatment Unit in Madison, Wisconsin	Zinc, Tulal (ug/L ns Zn)	Inflow	15	186.820	ug/L	71.030
HD	Urban Storm Treatment Unit in Madison, Wisconsin	Zinc, Total (ug/L as Zn)	Outflow	13	177.344	υg/L	72.198
HD	ARC Oil Seperator	Zinc, Total (ug/L as Zn)	Inflow	13	235.144	ug/L	120.806
HD	ARC Oil Seperator	Zinc, Total (ug/t, as Zn)	Outflow	9	97.979	ug/I	44.029
		Zinc, Total (ug/Las Zn)	inflow	9	101,046	ug/L	43.236

TABLE F-10

## SUMIMARY OF ANNUAL RUNOFF VOLUMES (FT 3) PLAYA VISTA - South of Ballona? Pre First Phase

Name	Tributary	Industrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open		
State   Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker Marker	Лапе					ff Coefficients				Volume (ff3)	
Interior protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the following protect control of the f		0.80	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals	
swed Project         0.000         0         \$529,819         0         33,861         0         0           Thomes         67.72         0         2,658,695         0         199,145         0         1,899,405           Included         67.72         0         2,658,685         0         0         0         0         1,899,405           Included         67.72         0         6,531,474         0         0         0         0         0         0           State         1000         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	res nwater Marsh (Tuture) Centinela Ditch (future Riparian Corridor) at Proposed Project Boundary										
tic minimal branches	Proposed Project	0.00	0	529.949	c	20,000	ć	•			
1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406   1989 406	First Phase	0.00		2,655,690	> 0	159.145	) C	<b>5</b> C	560,631	1,124,410	
The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The property   The	Off-site Subtotal	67.72	0.6	2,345,865	0 (	0	00	1,989,406	434,771	3,200,745 4,770,109	
osed Project         0.00         0         99,212         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Centinela Ditch at Lincoln	71.12	-	0,001,474	0	193,006	0	1,989,406	1,381,311	9,095,264	
the section         0.00         0         99,212         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Proposed Project	00.0	•	C	c	c		·	•		
Notes         0.00         0         618,572         68,737         0         0         4493,773           Storm Drain (future)         0.00         0         718,184         68,737         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	First Phase	00.0	•	99.212	· c	• c	2 0	<b>.</b>	0 20	0	_
1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975   1975	Off-site	00.0	٥	618,972	68,737	> c	· c	463 773	702,e59	934,418	
Test Storm Drain (future)  Test Storm Drain (future)  Thase Project  Test Storm Drain (future)  Thase Project  Test Storm Drain (future)  Test Storm Drain (	Subtotal	0.00	0	718,184	68,737	· c	o c	403,770	44,5/2,24 21,2,24	1,231,054	
Ose Project         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Central Storm Drain (future)					,	À	27.75	677,900	2,165,473	_
Phase 0000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Proposed Project	00.0	0	O	0	c	•	•	•	•	
to   100   0   0   0   0   0   0   0   0	First Phase	00.0	0	0	. 0	) C		3 6	> 0	9 (	
Orbital         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Off-site	000	٥		· C			- ·	<b>&gt;</b> (	<b>-</b>	
of Storm Drain - South         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>Subtotal</td> <td>00'0</td> <td>0</td> <td></td> <td></td> <td></td> <td>) c</td> <td></td> <td><b>.</b></td> <td>0 1</td> <td></td>	Subtotal	00'0	0				) c		<b>.</b>	0 1	
Osed Project         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Uncoln Storm Drain - South					,	,	3	>	0	
Phase         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0<	Proposed Project	00:00	0	Ç	-	c	¢	•	•	,	
tto Freshwater Marsh (Future) 0.00	First Phase	0.00	٥	0	_	· c			o į	<b>-</b> (0	
Otal         0.00         0         139,167         165,579         0         238,379         1,197,600           Sted Project         0.00         0         0         0         0         0         1,608           Phase         0.00         0         0         0         0         1,608         0           Area - Freshwater Marsh         0.00         0         0         0         0         0         1,608           Area - Freshwater Marsh         0.00         0         0         0         0         0         1,608           Area - Freshwater Marsh         0.00         0         0         0         0         0         1,608           Area - Freshwater Marsh         0.00         0         0         0         0         0         1,608           Area - Freshwater Marsh         0.00         0         0         0         0         0         0         0         0           Area - Freshwater Marsh         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Official	00:0	.0	139,167	165,579	٥٥	238.379	1 197 609	4 063	203	
Sed Project Marsh (Future)  0.000	Subfotal	0.00	0	139,167	165,579	0	238.379	1 197 600	200, 6	1,144,100	
0.00 0.00         0 0         0 1,608           0,00 0,00         0 0,00         2,754,902 0 0         0 0 0 0         1,608 0 0 0 0 0 0         0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Direct to Freshwater Marsh (Future)							25.5	7404	LSS that	
Itele         0.000         0         0         0         0         1,608           Itele         0.00         0         0         0         0         0         0         0           Octal         0.00         0         0         0         0         0         0         0         0         0           Above         0         0.00         0         529,919         0         33,861         0         1,608           Phase         0.00         0         2,754,502         0         1,508         3,680,779           te         67,72         0         6,388,826         234,316         193,006         238,379         3,680,779	Toposed Project	0.00	0	•	0	0	0	0	6	c	
Cotal         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <td>0.00 T 100 T</td> <td>0.00</td> <td>Ģ</td> <td>0</td> <td>٥</td> <td>o</td> <td>0</td> <td>1,608</td> <td>322.015</td> <td>323 623</td> <td></td>	0.00 T 100 T	0.00	Ģ	0	٥	o	0	1,608	322.015	323 623	
Area - Freshwater Marsh         Usun         0         0         0         0         1,608           tary         159,00         0         529,919         0         33,867         0         0           158chwater Marsh         0.00         0         2,754,302         0         159,145         0         1,608           158chwater Marsh         0.00         0         2,754,302         0         1,508         0         1,508           158chwater Marsh         67.72         0         3,164,005         234,316         193,006         238,379         3,682,387	Subtote.	200		0	0	0	0	c	0	0	
tary  sed Project  0.00  0.2754,302  0  159,145  0  1,508  1,508,826  234,316  193,006  238,379  3,682,387	Total Area - Freshwater March	00.0		0	0	Ď	٥	1,608	322,015	323,623	
Sed Project         0         33,861         0         0         0           Phase         0,00         0         2,754,902         0         159,145         0         1,608           (e         67.72         0         3,164,005         234,316         0         238,379         3,680,779           67.72         0         6,388,826         234,316         193,006         238,379         3,682,387	Tributary										
Phase 0.00 0 2,754,302 0 159,145 0 1,508 (224,316 193,006 238,379 3,682,387	Proposed Project	00.0	•	520 010	c	0					
(e 67.72 0 3,104,005 234,316 0 238,379 3,680,779 67.72 0 6,388,826 234,316 193,006 238,379 3,682,387	First Phase	00'0		2 754 902		100,000	<b>&gt;</b>	0	550,631	1,124,410	
67.72 0 6,388,826 234,316 193,006 238,379 3,682,387	Off-site	67.72	• •	3,104,005	224.316	. ec.	0 000	1,608	1,543,334	4,458,989	
67.72 0 6,388,826 234,316 193,006 238,379 3,682,387					2	•	870°00'4	3,650,779	488,406	7,745,952	
	lotal	67.72	o	6,388,826	234,316	193,006	238,379	3.682,387	2 592 371	12 920 251	
										100,040,11	

\$/11/2003

### SUMMARY OF ANNUAL RUNOFF VOLUMES (FT $^3$ ) PLAYA VISTA - South of Ballona - Pre First Phase

0.80   0.80   0.80   0.80   0.80	Tributary	Industrial	Commerciat/R esidential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open	
Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note   Note	- Name	0.80	0.30	0.80		off Coefficients	0.80	8 E U	26.0	Volume (ft3)
Storm District	Bailona Watiands						25.0	25.5	# <b>3</b> -0	SUDDICERIS
State   Coco	Jefferson Starm Drain		•							
State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   Stat	Proposed Project	0.03	0	0	•	•	c	c	000	
Araia F Residential***  Araia F Residential***  Araia F Residential***  Araia F Residential***  Araia F Residential***  Araia F Residential***  Araia F Residential***  Araia F Residential***  Araia F Residential***  Araia F Residential***  Araia F Residential***  Araia F Residential**  Araia F Res	First Phase	0,00		10.835	• •			<b>.</b>	482,488	384,284
Arabic Residential==	Off-site	2,215,153.07		408,292	1.231.511		340 503	1 500 640	200.000	960,525
After 8 Residential***  1	Subtotal	2,215,163,07	٥	419,127	1,231,511		340 503	1.500.849	409,218	0,130,30B
ase Project 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Former Area B Residential"					,	200,010	610,000,1	761,520,1	cLL'nnc')
Section   Color   Co	Proposed Project	0.00	۰	o	0	•	0	c	_	ς
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otical sections         0.00         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Off-site	00.0	0	o	ò	0	. 0		> <	> <
ace Project: 0.000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Subtotal	0.00	0	0	•	•	0		> c	2 6
Second   Color   Col	East Wetlands		-					,	,	
Second   Color   Col	Proposed Project	00:00	٥	0	o	•	_	•	c	
Motifands  Motifands  And Project  And Project  And And And And And And And And And And	First Phase	000	٥	O	0	. 0			<b>&gt;</b> C	<b>,</b>
Motifands		0.00	0	0	56,547	47,405	. 0	458 521	780 084	4 420 444
Avelands  ase  ase  ase  ase  ase  ase  ase  a	Subtota	0.00	D	0	56,547	47.405	•	488 524	860 207	1,55,77
Second   Color   Col	South Wetlands							170,000	167,000	1,456,77
ase	Proposed Project	00.0	0	0	¢	_	c	c		•
19,528   118,851   54,177   355,875	First Phase	0,00	0	0	. 0	· •	> c	> <	<b>3</b> 6	<b>.</b>
1	Off-site	0.00	٥	119,528	118,851	54.177	355 875	2 022 249	750 667	0 44.0
Additional Services	Subtotal	0.00	•	119,528	118,851	54.177	356.875	2,032,349	439.044	2,113,024
## Project	North Wetlands***							200	100,000	+70'C11'C
ase 0.00 0 216,401 320,660 98,196 339  14 220,000 0 216,401 320,660 98,196 339  15a - Ballona Wetlands  15a - Ballona Wetlands  15a - Ballona Channel 0.00 0 10,835 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Proposed Project	00.0	•	٥	0	0	c	c	•	•
14 0.00 0 216,401 320,660 98,196 339  10a - Ballona Watlands  15a - Ballona Wa	First Phase	0.00	0	0	0	. 0		> <		> 0
14	Off-site	0.00	•	218,401	320,660	98,196	339	83.957	1309 201	2 4 20 6 4 4
rea - Ballona Wetlands  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000  10,000	Subtotal	0.00	0	218,401	320,660	98,196	330	83.957	1 359 291	2.120,044
Part - Californa Wettands  O 0 0 0 0 0 0 0  See 0.00 0 10,835 0 0 0 0 0  2,215,163.07 0 746,221 1,727,570 199,778 656,716  2,215,163.07 0 757,056 1,727,570 199,778 656,716  TS7,056 1,727,570 199,778 0 33,861 0 7,865,737 0 7,727,727  TS7,056 1,727,570 199,778 0 7,745,8774 1,961,865,778 0 9,05,0195	A section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sect									100,000
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ase 0.00 0 10,835 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Proposed Project	800		c	ē	ď				
Teg. 52 15, 163.07 0 745,221 1,727,570 199,778 656,746 751,056 1,727,570 199,778 656,746 751,056 1,727,570 199,778 656,746 751,056 1,727,570 199,778 656,746 751,056 1,727,570 199,778 656,746 140,000 0 33,861 0 159,145 0 159,145 0 145,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 14 1,961,887 1	irst Phase	800	> c	70 O	<b>3</b> C	5 6	o •	0	384,284	384,284
Teg., 157 (16 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778 199,778	Off-site	2 245 163 07	, ,	7.48.724	104	2	0	0	949,689	960,525
Teal - South of Ballona Channel 0.00 0 529,919 0 33,861 0 0.00 0 2,765,737 0 159,145 0 2,215,230,79 0 7,145,887,74 1961,885 199,775 905,095	otal	2,215,163,07		757 056	U/C,/2/,I	199,778	696,716	4,085,447	3,181,850	12,822,745
Pad - South of Ballona Channel 0.00 0 529,919 0 33,861 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				2001	1,7,21,3/1	188,170	9L/960	4,085,447	4,515,824	14,167,554
rea - South of Ballona Channel 0.00 0 529,919 0 33,861 0 0.00 0.00 0 2,765,737 0 159,145 0 159,145 0 2,215,230,79 0 7,145,887,74 1,961,885 199,778 905,095	. No. 100									
d Project 0.00 0 529,919 0 33,861 0 0 0.00 0 2,765,737 0 159,145 0 2,215,230,79 0 7.145,887 74 1 961,885 199,778 905,095	otal Area - South of Ballona Channel									
2,215,230,79 0 2,765,737 0 159,145 0 2,215,230,79 0 7,145,887,74 1,981,885 48 20,770 20,100	Toposed Project	0.00	0	529,919	0	33.861		c	944 046	40
2,215,230,79 0 3,650,226 1,951,865 199,778 905,095	irst Phase	0.00	0	2,765,737	. 0	159.145	, .	- FO	3 464 F73	1,508,695
2.215.230.79 0 7.145 R81.74 1 GR1 RSE 4B 200.700.40	Off-orte	2,215,230.79	<u> </u>	3,850,226	1,961,885	199,778	905,095	7,766,226	3.670.256	20.568 697
35,105,105,105,105,105,105,105,105,105,10	008) 1- 0 =	_	0	7,145,881.74	1,961,885,48	392,783.42	905,094.91	7,767,833.98	7,108,194,85	27.496.905.18

'In Pra-First Phase, the Jefferson Drain outlet is incated near the Culver/Jefferson intersection and receives a portion of the runoff from the Former Area B Residential Area and then discharges directly into the Ballona Wettands.
"In Pra-First Phase, the Former Area B Residential Area discharges to the Jefferson Drain and the North Wettands.
"In Pra-First Phase, a portion of the Former Area B Residential Area discharges to the North Wettands.

## SUMMARY OF TOTAL SUSPENDED SOLIDS LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Tributary	Industrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open	
a Way				Runoff Coefficients	floients				TSS Loads
	0.80	0.80	0.80	0.80	08.0	0.80	0.38	0.24	Subtotals
Freshwater Marsh (future)									
Centinela Ditch (future Riparian Contidor) at									
Proposed Project Boundary									
Proposed Froject	00.0	0.00	2237.15	00.0	0.00	00'0	0.00	7826.40	10063,54
Cural Frase	00.0	0.00	11211,47	0,00	0.00	00.0	0.00	5387,30	16598.76
UII-8II e	0.75	0,00	9903.49	00'0	00.0	00.00	5003,04	60,6909	20976.67
Suprotei	0.75	00.0	23352,10	0.00	0.00	0.00	5003.04	19283.08	47638.98
Centinela Ditch at Lincoln									200014
Proposed Project	00.00	00.0	00.0	0.00	0.00	000	00.00	00.0	900
TITS PAGS •	00:00	0,00	418.84	00.0	00.0	00.0	00'0	11659.47	12078.31
	0.00	0.00	2613.10	169.08	00'0	0.00	1241.76	592.02	4715.07
Subtotal			3031.94	169.08	0.00	00'0	1241.76	12351.50	16794 28
Cantral Storm Drain (future)									
Proposed Project	0.00	00.0	0.00	00.0	00.0	0.00	00:0	000	0
First Phase	0.00	0.00	00.0	0.00	0.00	00.0	000	900	00.0
Original Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of t	0.00	0.00	00.0	0.00	0.00	000	000	000	000
Subtotal	0.00	0.00	0.00	0,00	0,00	0.00	000	0.00	000
Lincoin Storm Drain - South									
Proposed Project	0.00	00:00	0.0	00.0	0.00	0.00	0.00	00'0	0.00
	0.0	0.00	0.00	00.0	00.0	000	00.0	2.84	2.84
	0.0	0.00	587.52	407.28	00.0	599.49	3011.78	56.72	4662.79
Direct to Freshwater Mersh (Buture)	0.00	00,00	587.52	407,28	0.00	599.49	3011.78	59.56	4665,63
Proposed Project	00.0	Ş	000	2	8		4		
First Phase	00:0	00.0	86	9 6	8 6	8 8	5 6	0.00	0.00
Off-site	00.0	00.0	0.00	000	86	3 6	3 8	75.00.00	4489.37
Subtotal	0.00	00'0	00.0	0.00	800	36	9 6	200	00:0
Total Area - Freshwater Marsh Tributary					200	200	5	4480,32	- p. n. n.
Proposed Project	00.00	00'0	2237.15	00:00	0.00	0.00	000	7826 40	10063 54
THIST PLESS	0.00	00.0	11630,31	00:0	00.0	00'0	40,4	21544 93	33179.28
	0.75	00.0	13104.11	576,36	0.00	599,49	9256.58	6818,14	30355,43
	0.75	0.00	26971.56	576.36	0.00	599.49	9260.63	36189,46	73598,25

8/11/2003

TABLE F-11

## SUMIMARY OF TOTAL SUSPENDED SOLIDS LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Tributary	Industrial	Commercia/R esidential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open Space	
Name				Runoff Coefficients	folents				TSSLoads
	0.80	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
Ballona Wetlands									
Jefferson Storm Drain *			•						· ·
Proposed Project	0.00	00.0	0.00	00'0	0.00	80'0	00:0	5364.61	5364,61
First Phase	0.00	00.0	45.74	00'0	00.0	00.0	00:0	13257,65	13303.40
Off-site	24594.31	0.00	1723,68	3029.23	0.00	780.86	3773.82	5379.48	4073130
Subtotal	24594.31	0.00	1769.42	3029.23	0,00	780.86	3773.82	25451 74	5030030
Former Area B Residential**							40.0	1110000	20,55,00
Proposed Project	0.00	0.00	00.0	00.0	0.00	00.0	00.0	00.0	00.0
First Phase	00.0	00.00	60,0	000	00.0	00 0	0 0	5 6	
Off-site	0.00	0.00	0.00	000	00.0	000	00.0	000	9 6
Subtotal	0.00	00'0	0.00	0.00	0.00	00.0	0.00	0.00	0.00
East Wetlands									
Proposed Project	0.00	0,00	00.0	00.0	00'0	00:00	0,00	0.00	0.00
	0,00	0.00	0.00	00'0	00.0	0.00	00.0	0.00	0.00
Offesite	0.00	0.00	00.0	139.09	00.0	00'0	1173.26	12009.74	13327.09
Subtotal	0.00	0.00	0.00	139,09	0.00	000	1178.26	12009,74	13327.09
South Wetlands									
Proposed Project	0.00	0.00	0.00	0.00	00.0	00,0	0.00	0.00	0.00
First Phase	00.00	0.00	00.0	00.0	00:0	0.00	00:0	0.00	0.00
01-840 -	00.00	0.00	504.61	292.35	00.0	894.97	5111.94	6045,29	12848.25
Subtotal	0,00	0.00	504.61	292.35	0.00	894.97	5111.04	6045.29	12848.25
North Watlands***									2
Proposed Project	0.00	00'0	0.00	0.00	0.00	0.00	00.0	800	900
First Phase	0.00	0.00	00:0	0:00	00.0	00.0	000	000	900
Off-site	00'0	00.0	922.02	788.75	0.00	0.85	211.14	19534.08	21456.84
Subtotal	0.00	0.00	922.02	788.75	00.0	0.85	211,14	19534,08	21456.84
lotal Area - Ballona Wetlands Tributary			•						
	0.00	60'G	0.00	0:00	0.00	0.00	00.0	5364.61	5364,61
	00.0	00.0	45,74	00.0	0.00	0.00	0.00	13257,65	13303.40
	24594.31	0.00	3150.30	4249.42	80	1676.59	10274.26	44418.59	88363,58
i otal	24594.31	0.00	3196.05	4249.42	0.00	1676.69	10274.26	63040.85	107031.58
Total Area - South of Ballona Channel									
Proposed Project	0.00	0.00	2237.15	0.00	00.0	0.00	00.0	13191.00	15428.15
Triss Phase	0.00	0.00	11676,05	0.00	0.00	0.00	4.04	34802,58	45482,67
	24595.07	0.00	16254.41	4825.78	00'0	2276.17	19530.84	51236.73	118719.01
, marine and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a second and a second	/0'08047	0.00	30167.61	4825.78	0.00	2276.17	19534.89	99230,32	180629.83

## SUMMARY OF TOTAL PHOSPHORUS LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Thbutary	Industrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	High Density Residential	Law Density Residential	Open Space	
				Runoff Coefficients	shre				TP Loads
1	0.80	08.0	0.80	0.80	0.80	0.80	98.0	0.24	Subtotals
(Freshwater Marsh (future)									
Centinela Dittor (future Kiperian Corridor) at		•							
richteed riched	0.0	0.00	13.21	0.00	00'0	00.0	000	4 33	47.54
Hirst Flase	0:00	0.0	66.20	0.00	00.0	000	2	80°	5 6
Offsite	0.00	00.0	58.47	00'0	00.0	000	35.55	2 5.00 2.00	03.16
SUDJOIGN	8.0	0.00	137.88	00'0	00'0	000	20.38	10 68	177.02
Centinela Ditch at Lincoln								3	76.17
Froposed Project	0.00	00:0	0.00	0.00	00'0	00'0	00:00	0.00	000
Dog to the second	0.00	0.0	2.47	00'0	000	000	000	6.46	0.0
	0,00	00.00	15.43	1.27	000	0.00	2 29	) e	75.45
Suprotal	0,00	00.0	17.90	1.27	0.00	0.00	8	) t	000
Central Storm Utain (future)								17.5	Oct.
Proposed Project	0.00	00:0	0.0	0000	0.00	000	9	90.0	90
Tirst Phase	0.00	000	00:0	900	00.0	000	3 6	8 8	900
	0.00	0.00	00:0	000	0.00	000	000	8 8	90,0
important and a second	0.00	0.00	0.00	000	00.0	00.0	0.00	900	000
Lincoin Storm Urain - South									
intoposed rioject	00.0	0.00	0.0	0.00	00.0	0.00	00.0	900	000
1000 L 100 L	000	0.00	0.00	0,00	00.0	0.00	000	000	000
Subtotal	8 8	00'0	3.47	3,05	0.00	3.52	17,68	0.03	27.75
Direct to Frashwater Marsh (Future)	0,00	0.00	3.47	3.05	0.00	3.52	17.68	0.03	27.75
Proposed Project	000	000	2	6	4		,		:
First Phase	000	38	3 6	8 6	3 8	90.0	000	00.0	00'0
Off-site	000	88	8 8	9 6	3 6	9	0.02	0.40	2.51
Subtotal	000	88	8 6	90.0	000	0.00	8	00.0	0.00
Total Area - Freshwater Marsh Tributary			20.20	0.00	00.0	0.00	0.02	2.49	2.51
Proposed Project	00.0	0.00	13.24	80	000	6	6	,	;
First Phase	00:00	0.00	68.67	8 6	200	88	900	55.4	17.54
	0.00	00'0	77.37	4,32	00.0	3,52	2 Z	3 78	444 42
	0.00	0.00	159.25	4.32	0.00	3.52	54.35	20,05	24.48
								1	

## SUMMARY OF TOTAL PHOSPHORUS LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Tributary	Industrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open	
Name				Runoff Coefficients	sints				TPLoads
	0.80	08'0	0.30	0.80	0.80	0.80	0.38	0.24	Subtotals
Ballona Wetlands									
Jefferson Storm Drain *									. •
Proposed Project	0.00	0.00	0.00	00:00	0.00	0.0	0.00	2.97	2,97
THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S	0.00	0.00	0.27	00'0	00'0	0.00	0.00	\$	7.61
OH-676	42.62	00.0	10.18	22.72	0,00	4.58	22.15	3.78	106.03
Subtotal	42.62	0.00	10.45	22.72	0.00	4.58	22.15	14.10	116.62
Former Area B Residentiai**									
Proposed Project	0.00	0.00	0.00	00,0	0.00	00'0	00'0	00.00	0.00
First Phase	0.00	0.00	0.00	00.0	0.00	0,00	0.00	8.0	0.00
Official	0.00	00'0	0.00	00'0	0.00	00.0	0.00	90:0	0.00
Subfota	0.00	0,00	0.00	0.00	0,00	0,00	00'0	00:0	0.00
East Wetlands									
Proposed Project	00'0	0.00	0.00	000	00.0	00.0	0.00	0.00	0.00
First Phase	0.00	000	000	00:0	00'0	00.0	0,00	00'0	0.00
Off-site	00'0	00.0	000	1.04	00'0	00.0	6.92	6.65	14.61
Subtotal	0.00	0,00	0.00	1.04	0.00	00.0	6.92	6.65	14,61
South Wetlands									
Proposed Project	00'0	0.00	0.00	0.00	00:0	0.00	00:0	0.00	0.00
First Phase	0.00	0.00	00'0	00'0	0.00	0.00	0.00	0.00	0.00
Off-6##	00:0	0.00	2.98	2.19	0.00	5,25	30.00	3.35	43.77
Subtotal	0.00	00.0	2.98	2.19	00.0	5.25	30.00	3,35	43.77
North Wetlands***									
Proposed Project	00'0	0.00	00'0	0.00	00'0	0.00	6.60	00:0	00.0
First Phase	00'0	00.00	8'8	0.00	00'0	00.0	0.0	8.0	0.00
Off-site	0.00	0.0	4	5.91	0:00	90.0	1.24	10.82	23.42
Subtotal	0.00	0.00	4.6	5.91	00.00	0.00	1.24	10.82	23.42
				-				-	
Total Area - Ballona Wetlands Tributary	00.0	8.5	10.89	11.83	0°0	0.01	2.48	21.64	46.85
Chart Division	000	8 6	0.0	99.	0.00	0.00	8	2.97	2.97
BOTTLE STEEL	DO: 5	8.5	0.27	00.0	000	0.00	800	7.34	7,61
	42.62	8.5	18,60	31.87	000	9.87 18.0	60.30	24.60	187,83
I WAI	42.62	0,00	18.87	31.87	0.00	9.84	60.30	34,92	198,42
Total Area - South of Ballona Channel									
Proposed Project	0.00	00"0	13.21	0.00	0.00	00'0	00'0	7.31	20,52
First Phase	0,00	00.00	68.94	00.0	0.00	0.00	0.02	19.28	88.24
Office	42.63	0.00	95.97	36.19	0.00	13.36	114,63	28.38	331.15
I Utal	42.63	00'0	178.12	36.19	0.00	13.36	114.65	54.96	439,90

## SUMMARY OF TOTAL KIELDAHL NITROGEN LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Tributary	industrial	Commercial/R esidential	Commercial	Major Roedways	Open Water	High Density Residential	Low Density Residential	Open	
o E d N				Runoff Coefficients	efficients	!			TKN Loads
	08.0	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
Freshwater Marsh (future)									
Centinela Ditch (future Riparian Corridor) at		•							
Proposed Project Boundary							•		
Proposed Project	00:0	00'0	102.97	00.0	0.00	0.00	000	34 45	127 43
First Phase	0.00	0.00	516.02	00.0	00'0	000	00.0	23.51	530 FR
Outsite	0.01	00'0	455.82	00.0	0.00	0.00	224.76	26.48	70.707
Subjected	0.01	0.00	1074.81	0.00	00'0	00.0	224.76	84,14	1383.72
Centralia Ditch at Lincoln									
	0.00	0.00	0.00	00'0	00'0	0.00	0.00	0.00	00.0
FIIST PRASE	00.0	0.00	19.28	0.00	00.0	0.00	00.0	50.87	70.15
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	00'0	0.00	120.27	4.52	00.0	0.00	55.79	3,02	183.59
Subtotal	0.00	0.00	139.55	4.52	00'0	0.00	55.79	53.89	253.75
Central Storm Drain (future)									
Proposed Project	0.0	00.0	0,00	0.00	00.0	0.00	00.0	0.00	0.00
Tirst Phase	0.00	0.00	00.0	00:0	00.0	00'0	00.0	00'0	00.0
	00.00	0.00	00'0	00'0	00.0	0.00	0,00	00.0	00.0
Suprofai	0.00	0.00	0.00	00.0	0.00	0.00	0.00	00.0	0.00
Lincoln Storm Drain - South									
Proposed Project	0.00	0.00	0.00	00.0	00:00	00.0	00.0	0.00	00.0
TISS PRINGS	00.00	00.0	0.00	000	0.00	0.00	000	0.01	0.01
	00'0	0.00	27.04	10.88	0.00	26.93	135,30	0,25	200.41
Subjectal	0.00	0.00	27.04	10.88	0.00	26.93	135,30	0.26	200.42
Ulrect to Preshwater Marsh (Future)									
Proposed Project	0.00	0.00	00.0	000	0.00	0.00	00.00	0.00	000
	00'0	00.0	0.00	0.00	0.00	0.00	0.18	19.61	19.80
0.1-5rd	0,00	0,0	0.00	00'0	0.00	0.00	0.00	00.0	0.00
Tablotal	0.00	0.00	00:00	0.00	0.00	0.00	0.18	19.61	19.80
Lotat Area - Freshwater Marsh Tributary Dropped Droine	4								
First Dhoop	2 6	9.0	102.97	0.00	0.00	00.0	00.0	34,15	137.12
DAGS - 1911	5 6	0.00	535,30	0.00	00'0	0.00	0,18	94.01	629.49
	<b>5</b>	00.0	603.13	15.40	0,0	26.93	415.85	29.75	1091.08
Total	0,01	0.00	1241.40	15.40	000	26.03	70.047		4
					2.62	40.33	410,04	15/30	1657,58

TABLE F-13

### SUMMARY OF TOTAL KJELDAHL NITROGEN LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Tributary	Industrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open	
AESA				Runoff Coefficients	fficients				TKN Loads
	0.80	0.80	0.80	0,80	0.80	08.0	0.38	0.24	Subtotals
Ballona Wetlands									
Jefferson Storm Drain *									
Proposed Project	0.00	00.0	00'0	0.00	0.00	00.0	00.0	23.41	23.41
First Phase	000	0.00	2.13	00'0	00.0	00.0	0.00	57,85	59,95
Off-site	315.85	00'0	79.33	80,94	00.0	35.08	169.54	29.80	710,54
Subtotal	315.85	0.00	81.44	80.94	00'0	35,08	169.54	111.05	793.90
Former Area B Residential**									
Proposed Project	00'0	0.00	00.0	00.0	00:0	0.00	00.0	00.0	0.00
First Phase	0.00	00.0	0.00	0.00	0.00	00.0	00.0	0.00	00.0
Off-site	0.00	0,00	00.0	00.0	0.00	0.00	00.0	00:0	00.0
Subtotal	0.00	0.00	00'0	00.0	0.00	00'0	00.0	0.00	00'0
East Wetlands									
Proposed Project	0.00	0.00	00'0	00.0	0.00	00.0	00.0	0.00	00'0
First Phase	0.00	0.00	0.00	0.00	0.00	00.0	00.0	0.00	00.0
Off-site	0.00	00'0	0.00	3.72	0.00	0.00	52.93	52.40	109.05
Subtotal	0.00	0.00	0.00	3.72	0.00	0.00	52.93	52.40	109.05
South Wetlands									
Proposed Project	0,00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tirst Phase	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00
### D	00,0	0.00	23.23	7.81	00.0	40.21	229.61	26,38	327.24
Subtotal	0.00	0,00	23.23	7.81	00.0	40.21	229.61	26.38	327.24
North Wettends									
	800	0.0	0.00	00'0	00.0	0.00	0.00	0.00	0.00
かかな しょうしょう いんしゅん	0.0	0.0	00:0	0.00	00.0	0.00	0.0	000	0.00
	3 6	2 6	4.5	21,08	0.00	40.0	Q. 4. Q. 4.	85.23	158.27
	200	no.n	47.44	41.05	00.0	#0.u	54.55	85.23	158.27
Total Area - Ballona Wetlands Tributary	00.0	00.0	84.87	42.15	0.00	80.0	18.97	170.45	216 54
Proposed Project	00.0	00.0	0.00	00'0	0.00	00	0.00	23.41	23.41
First Phase	0.00	0.00	2.11	00.0	0.00	0.00	00,0	57.85	59.95
Off-site	315.85	0.00	145.00	113,55	0.00	75.33	461.57	193.81	1305,10
Total	315.85	0,00	147.10	113,55	0.00	75.33	461.57	275.06	1388.46
Total Area - South of Ballona Channel									-
Proposed Project	0.00	00:0	102.97	00.0	0.00	0.00	0.00	57.56	150,52
First Phase	0.00	0.00	537.40	0.00	0.00	0.00	0.13	151.85	689,44
Off-site	315.86	00'0	748.13	(28.95	0.00	102.26	877.43	223.56	2396.18
lotal	315.86	0.00	1388.50	128.95	00:00	102.26	877.61	432.97	3246,14

In Pre-First Phase, the Jefferson Drain outlet is located near the Culver/Jefferson intersection and receives a portion of the runoff from the Former Area B Rasidential Area and then discharges directly into the Ballona Wetlands.
"In Pre-First Phase, the Former Area B Residential Area discharges to the Jefferson Drain and the North Wetlands.

\*\*\* In Pre-First Phase, a portion of the Former Araa B Rasidential Area discharges to the North Wetlands.

## SUMMARY OF OIL AND GREASE LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Name	Tributary	Industrial	Commercial/R esidential	Commercial.	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open Space	
Schwater Marsh (Nuture)         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.	Name		į		Runoff Coefficie	ints				O&G Loads
weel Project Boundary (Muture)		0.80	0.80	0.80	0.80	0,80	0.80	0.38	0.24	Subtotals
Insight Intuition Riparian Confider) at a consistent of the state Project Boundary Confider) at a consistent Mustary Riparian Confider) at a consistent Mustary Reserved to the state Project Boundary Confider) at a consistent Mustary Rutter)  Local Consistent Confidery at a consistent Rutter Consistent Confidery at a consistent Confidery at the state Project Consistent Confidery at the state Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Consistent Co	Freshwater Marsh (future)									
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the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first state of the first sta	Proposed Project	0	9	77 80 7	6	9	9	0		
March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   March   Marc	First Phase	000	000	543.37	200	88	8 8	3 8	000	108.42
Ordan         10.01         0.00         0.100         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Cff-site	0.0	00.0	479.98	000	800	000	161.45	9 6	541 44
Physical Project   Continue   C	Subtotal	0.01	00'0	1131.78	00.0	0.00	0.00	161.45	000	1293.24
Seet Project 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Centinela Ditch at Lincoln									
Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Colo	Proposed Project	00:0	0.00	00'0	0.00	00.0	0.00	00:00	00'0	0.00
State   Color   Colo	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.00	0.00	20.30	0.00	00.0	00:0	8,0	0.00	20.30
Second Description   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000   1,000		00.0	00.0	126.65	13.30	0.00	0.00	40,07	0.00	180.02
Seed Project Phase Color Unity (1901) Phase Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Color Colo	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	00'0	0.00	146.95	13,30	0.00	0.00	40.07	0.00	200.32
Phase	Central Storm Drain (future)		į							
Parison	Tipposed Tipposed		00:0	0.00	0.00	00:0	0.00	0,00	0.00	00'0
State   Color   Colo	D091 170 170 170 170 170 170 170 170 170 17		0.0	0,00	000	0.00	0.00	0.00	0.00	0.00
District         Color         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00			00.0	0.00	000	00'0	0.00	00'0	0.00	00'0
Telephonet Marsh (Future)  0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	The Court Davis Court		0.00	0.00	0.00	0.00	0,00	0.00	0.00	0,00
Phase controlled to the controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlled controlle	Dranged Draint Crain - South	6			-					
te   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	First Dhase	000	0.00	00.0	00.0	0.00	00.0	00.0	0.00	0,00
10		000	0000	0.00	0.00	00.0	8.0	0.00	0.00	0.00
t to Freshwater Marsh (Future)  Sed Project  Sed Project  Anna Freshwater Marsh Tributary  Coo Coo Coo Coo Coo Coo Coo Coo Coo Co	Subjection	900	800	28.47	32.04	00.0	19.35	97.19	0.00	177.05
Stead Project         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Direct to Freshwater Marsh (Future)	200	23.5	1,00	26,04	0.00	ac'81	87.18	0.00	177.06
Phase 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Proposed Project	00'0	00.0	00.0	00.0	000	S		2	9
te         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0	First Phase	00'0	00,0	000	00.0	2000	86	. C	000	5.5
Otal         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00 <th< td=""><td>Off-site</td><td>000</td><td>0.00</td><td>00.0</td><td>000</td><td>0.00</td><td>900</td><td>9 0</td><td>9 6</td><td>200</td></th<>	Off-site	000	0.00	00.0	000	0.00	900	9 0	9 6	200
Area - Freshwater Marsh Tributary         0.00         0.00         108.42         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Sublotal	0.00	00.0	0.00	00.0	0.00	0.00	0.13	000	, c
Seed Project 0.00 0.00 108.42 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Total Area - Freshwater Marsh Iributary									
Thase 0.00 0.00 563.67 0.00 0.00 0.13 0.00 0.10 0.00 0.10 0.10	Proposed Project	0.00	00.0	108.42	0.00	0.00	0.00	00.0	00.0	108.42
0.00 635,10 45,35 0.00 19,35 298,72 0.00 0.00 0.00 19,35 298,85 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Tirst Phase	0.00	0.00	563.67	0.00	0.00	0.0	0.13	00.0	563.80
0.00 1307.20 45.35 0.00 19.35 298.85 0.00		0.01	0.00	535.10	45.35	0.00	19.35	238.72	0.00	998.52
	Total	0,01	0,00	1307.20	45.35	00'0	19.35	298.85	00.0	1670.74

TABLE F-14

## SUMMARY OF OIL AND GREASE LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Tributary	Industrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open Space	
Name			,	Runoff Coefficients	ants				O&G Loads
	0.80	0.80	08.0	0.80	0.80	0.30	0.38	0.24	Subtotals
Ballona Wettands Jefferson Storm Drein *									
Proposed Project	0000	000	5	6	900	9	900	ç	5
First Phase	00'0	000	22	200	36	8 8	88	8 6	20.0
Off-site	235.09	0.00	83.54	238,33	800	25.20	121.78	000	703.94
(Subtotal	235.09	0.00	85.76	238,33	00'0	25,20	124.78	0.00	706,16
Former Area B Residential"									
Proposed Project	00:0	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00
		03:0	0.00	0.00	00.0	0.00	0.00	0.00	0.00
Subtotal	00.0	000	000	000	000	00.0	000	000	0.00
East Wetlands						20.0		200	2,0
Proposed Project	00.0	0.00	0.0	000	0.00	000	000	000	000
First Phase	00'0	00:0	000	000	000	0,00	000	00.0	00.0
Off-site	00.0	0.00	00.0	10.94	0.00	0.00	38,02	00:0	48.97
Subtotal	0.00	00'0	0.00	10.94	0.00	00'0	38.02	00'0	48.97
South Wellands									
Proposed Project	00.0	0.0	0.00	0.00	00'0	0.00	00'0	0,00	0.00
TIEST FLASS	00:00	0.00	0.00	0:00	00'0	0.00	00.00	0.00	0.00
Subtota	0.00	00:00	24.46 24.48	23.00	0 6	28.88	164.94	8 8	241.28
North Wetlands***			24.47	43.00	0.00	70.00	46,40	0.00	241.28
Proposed Project	00'0	00'0	00 0	90	000	č	000	ç	0
First Phase	00.0	000	00.0	00:00	000	00.0	000	000	000
Off-site	00'0	00.0	89.4	62.06	0.00	0.03	18.8	00.0	113,58
Subtotal	00.0	0,00	44.69	62.06	0.00	0,03	6.81	0,00	113.58
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
Proposed Project	96.6	0.00	89.37	124.11	0.00	S 0.0	13.63	0.00	227.17
First Phase	200	900	5 6	900	9 8	9.6	3 6	3 6	0.00
Off-ste	235.09	000	152.68	22.7	3 6	20.5	44 44	3 6	77.70
Total	235.09	0.00	154.90	334.33	00.0	54.11	33.150 50.150	000	4109.5
Total Area - South of Ballona Channel									
Proposed Project	00:0	00.0	108,42	0.00	0.00	0:00	0.00	0.00	108.42
First Phase	00'0	00.0	565,89	0.00	0.00	0.00	0.13	00.00	566.02
Off-site	235.10	0.00	787.78	379.68	0.00	73.45	630.28	0.00	2106.28
	235,10	0.00	1462.09	379.68	00.0	73.45	630.41	0.00	2780.73

TABLE F-15

## SUMMARY OF TOTAL COPPER LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Particular   Par	Tributary	Industrial	Commercial/R esidential	Commencial	Major Roadways	Open	High Density Residential	Low Density Residential	Open Space	
Water Marsh (future)         Water Marsh (future)         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80         0.80	Name				Runoff Coefficia	ents				TCu Loads
Waste Mark (future)         Waste Mark (future)         0.00         0.00         0.00         0.00         0.01           Arbitact Boundary         0.00         0.00         0.115         0.00         0.00         0.00         0.01           Arbitact Boundary         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00		0.80	0.80	08.0	0.80	0.80	0.80	0.38	0.24	Subtotals
Project Countrainty   0.00	Freshwater Marsh (future) Centinele Ditch (future Riperien Corridor) et									
Second Part   Color	Proposed Project Boundary Proposed Project	00.0	00.0	<u>-</u>	000	5	8	8		4
Storm Drain (Turue)	First Phase	00.0	00.0	5.76	0.00	00.00	8.8	800	3 5	64, r.
Storm Drain (future)	On-site Subtotal	00.00	0.00	5,09	0.00	00.0	00.0	8. 8	42.5	6.71
Storm Drain (future)   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	Centinela Ditch at Lincoin					20,0	0,00	92	9/10	14.15
Storm Drain - South   Color	Proposed Project	00:00	0.00	00.0	00:00	00.0	000	00.0	. 0	900
Storm Drain (future)	FIRST Fhase	0.00	00.00	0.22	00:0	0.00	00.0	00.0	0.46	89.0
Storm Drain (future)         C.00         0.00         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05         0.05<	Subtotal	000	0.0	45.	0.15	000	0.00	0.34	0.03	1.86
ase Project	Central Storm Drain (future)	0.0	00:00	8.	0.15	000	0.00	0.34	0.49	2.54
### Secretary Control	Proposed Project		6		;	:				
Storm Drain - South	First Phase	8.6	0.00	000	00.0	0.0	00.0	0.03	03.0	00'0
Storm Drain - South	Off-site	3 6	000	00.0	00.0	0.00	0.00	0.00	0.00	0.00
Storm Drain - South	Subtotal	00.0	8.6	90.0	00.0		0.00	0.00	00'0	00.0
Ase Freshwater Marsh (Future)  O.00	Lincoln Storm Drain - South				22.2	3	00.0	00.00	0.00	0.00
ase  O 0.00  O	Proposed Project	9.0	0.00	00.0	00.0	00.0	900	6	8	6
Freshwater Marsh (Future)	First Phase	00'0	0.00	0.00	000	800	8 8	8 8	8.6	3 6
1	Off-site	00.0	00.0	0.30	0.35	0.00	0.17	88	8 8	2.0
or Presenwater Mersh (Future)  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00	Subroral	0.00	00.0	0.30	0.35	0.00	0.17	28.0	0.00	5.5
ase	Direct to Freshwater Mersh (Future)	;								
1		0.00	0.00	0.00	0.0	00.0	0.0	0.00	0.00	0,00
11 Project	00001110011	00.0	00'0	0.00	0.00	80.0	00:0	00.0	0.18	0,18
Teshwater Marsh Tributary 0.00 0.00 1.15 0.00 0.00 0.00 0.00 0.00	Subtotal	0.00	00.0	00.0	0.00	0.00	0.00	0.00	0.00	0.00
ase 0.00 0.00 1.15 0.00 0.00 0.00 0.00 0.00	Total Area - Freshwater Mareh Telly. 145m.	00.0	0.00	3.3	0.00	0.00	0.00	0.00	0.18	0.18
0.00 0.00 5.98 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Proposed Project	0.00	0.00	1.15	8	900	50	50 6	700	
0.00 0.00 6.74 0.50 0.00 0.17 2.55 0.27 0.00 0.00 13.87 0.50 0.00 0.17 2.55 1.44	First Phase	0.00	0.00	5,98	00'0	00.0	00.0	20.0	. K	- u
0.00 0.00 0.50 0.50 0.17 2.55 1.44	OIT-Site	0.00	00'0	5.74	0.50	0.00	0.17	2,55	0.27	10,22
	Total	0.00	0.00	13.87	0.50	00.00	0.17	14	7	e e
							,	2:30		16.51

TABLE F-15

### SUMMARY OF TOTAL COPPER LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Tributary	Industrial	Commercial/R esidential	Commercial	Major Roadways	Open Wa <b>te</b> r	High Density Residential	Low Density Residential	Open Space	
Name				Runoff Coefficients					TCu Loads
	0.80	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
Ballona Wetlands									
Jamerson Storm Drain			,						
Proposed Project	0.00	0.0	0.00	0.0d	0.0	0.00	000	0.21	0.21
TIIST Thake	0.00	0.0	0.02	0.0	0.0	00.0	00.0	0.53	0.55
	50.0 50.0 60.0	00.0	0.60	2.61	0.0	0.22	8. 3	0.27	- 60°C
Former Area B Residential**	707	20,0	5.0	7.01	0,0	0.66	1.04	1.0.1	8.02
Proposed Project	00.0	0.00	00.0	00.0	00:00	0.00	00:00	0.00	0.00
First Phase	000	00.0	00.0	0.00	00:0	00.0	800	00.0	00.0
Off-site .	00'0	00.0	00.0	00.0	00.0	0.00	00,0	0.00	0.00
Subtotal	0.00	00'0	0.00	0.00	0.00	0,00	00.0	00.0	0.00
East Wetlands									
Proposed Project	00:00	00.0	00.0	0.00	00:00	0.00	00.00	0.0	0.00
First Phase	00:0	00.0	00.00	0.00	0.00	00.0	00.0	00.0	0.00
Off-site	0.00	0.00	00'0	0.12	0.00	0.00	0.32	0.48	0.92
Subtotal	0.00	0.00	0.00	0.12	0.00	0.00	0.32	0.48	0.92
South Wetlands							_		
Proposed Project	0.00	0.00	00.0	0.00	00'0	0.00	0.00	00.0	00.00
First Phase	0.00	00'0	0,00	0.00	90.0	9.0	0.00	0.00	0.00
	0.00	00.0	0.26	0.25	00.0	0.25	4.	0.24	2.40
Supploral	0.00	0.00	0.26	0.25	0.00	0.25	1.41	0.24	2.40
North Wetlands***	,	;	;	,	,	,	,	,	,
Proposed Project	0.00	0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.0
	0.00	0.0	0.0	0.00	0.00	00.0	0.00	00'0	0.00
	0.00	200	74.0	90 G	9.0	90.0	90.0	2.7.0	
	2000	2	7	0,70	00.0	200,0	90.0	,,,,	n n
Total Area - Ballona Wetlands Tributary	0.00	00 0	98 0	1.36	90 0	00.0	0 12	1 55	3 97
Proposed Project	0.00	0.00	00.0	0.00	00,0	0.00	00.0	0.21	0.21
First Phase	00.0	00'0	0.02	0.00	00'0	0.00	00.0	0.53	0.55
Off-site	3.85	00'0	1.62	3.66	00.0	0.46	2.83	1.76	14.18
Total	3.85	0.00	29,	3.66	00.0	0,46	2.83	2.50	14.94
Total Area - South of Ballona Channel									
Proposed Project	0.00	0.00	1.15	0.00	00.0	0.00	00'0	0.52	1.67
First Phase	0.0	0.00	9,00	0.00	0.00	0.00	0.00	1,38	7.38
	ic w	0.00	8,36 45,54	4.16	00.0	0.63	60 E	2.03	24.40
		20.5	200	A	0.00	20,0	00.0	7.04	25.40

### SUMMARY OF TOTAL LEAD LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Tributary	Industrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open Space	
Nade				Runoff Coefficients	ents				TPbLoads
	0.90	08.0	0.90	0.80	0.80	08'0	0.38	0.24	Subtotals
Freshwater Marsh (future) Centinela Ditch (future Riparian Corridor) at									
Proposed Project Boundary Proposed Project	00.0	CD CD	9	ć	ć	ć	8		ć
First Phase	00:00	00.0	34.5	800	000	900	9 0	- E	3.53
Off-site	0.0	0.00	3.05	0.00	0.0	00'0	9.6	0.09	3.54
Continue of the state of the st	00.0	0.00	61.7	0.00	0.00	0.00	0.40	0.28	7.87
Centine a Lincoln Drongs and Project	ć	9		,	;				•
First Chase	90.0	8.8	0.0	90.0	8.6	0 6	90.0	0.0	00.0
Off-site	200	8 8	2 6	3.0	0.00	8 8	90.0	7.0	9,0
Subtotal	000	00.0	860	0.02	80	00.0	2 6	- C	
Central Storm Drain (future)							,	2	
Proposed Project	00.0	0.00	00.00	0.00	00'0	0.00	00.0	00.0	00.0
First Phase	00.0	00.0	00.00	0.00	0.00	0.00	0.00	00.0	00.0
Off-site	00.0	00.0	0.00	0.00	0.00	00.00	0.00	00.0	0.00
Subtotal	0.00	00.0	0.00	00.0	0.00	0.00	0.00	0.00	0.00
Lincoin Storm Drain - South									
Proposed Project	0.00	00.0	00'0	0.00	0.00	00.0	00.0	0.00	0.00
First Phase	0.00	00.0	00.0	0.00	0.00	00.0	0.00	0.00	00.0
Off-site	0.00	00.0	0.18	0.04	000	0.05	0.24	00.0	0.51
Subtotal	0,00	0.00	0.18	0.04	0.00	0.05	0.24	0.00	0.51
Direct to Presnwater Marsh (Future)	5	0	ç			6	1	•	
First Phase	900	800	000	0 0	8 6	9 6	0.00	00.0	0.60
Off-site	00.0	000	8 6	86	8 6	8 6	8 6	8 8	9 6
Subtotal	0.00	00.0	0.00	60.0	80	8.6	8.6	3 4	9.0
Total Area - Freshwater Marsh Tributary									200
Proposed Project	0.00	00.0	69.0	0.00	00.0	00.0	0.00	0.11	0.60
First Phase	0.00	00.00	3.58	0.00	0.00	0.00	0.00	0.31	3.89
OTFS!(#	00'0	0.00	4.03	0.05	0.00	0.05	0.75	0,10	4.98
Total	0.00	0.00	8.30	0.05	0.00	0.05	0.75	0.53	79 0
									9.5
						_		1	

## SUMMARY OF TOTAL LEAD LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Tributary	Industrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open Space	
Name				Runoff Coefficients	ents				TPb Loads
	0.80	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
Ballona Wetlands									
Certerson Gorna Lrain	ć			,	;	;	;		
Troposed Trojaci	0.00	9,6	8 6	0.00	0.00	0.00	00.0	0.08	0.08
	0.00	9.6	5.6	0.00	0.00	00'0	00.0	0.19	0.20
Subtotal	2.5	80	0.54	2.0	900	90.0	9,0	0.10	3.78
Former Area B Residential**					23.5	20.0	200	5.5	P
Proposed Project	00.0	00.0	00.0	00.0	00.0	90 0	9	6	2
First Phase	00.0	0.00	00:0	000	800	00.0	866	000	3 3
Off-site	0.00	00'0	0.00	00'0	0.0	0,0	00,0	8	00.0
Subtotal	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0.00
East Wetlands									
Proposed Project	0.00	0,00	0.00	00'0	00:0	0.00	00.0	0.00	0.00
First Phase	0.00	0,00	0.00	00'0	00:0	00.0	00.0	0.00	00.0
Off-site	0.00	0.00	00.0	0.01	00.0	00.0	0.10	0.17	0.28
Subtotal	0.00	0.00	0.00	0.01	0.00	00.0	0.10	0.17	0.28
South Wetlands									
Proposed Project	8.0	0.00	9.0	0.00	0.00	0.00	0.00	0.00	0.00
First Phase	00'0	0.0	0.00	0.0	00:0	0.00	0.00	0.00	0.00
CIT-SITE	00:00	0.00	0.16	0.03	0.00	0.07	0.41	0.0	0.75
Subtotal	00'0	0.00	0.16	0.03	0.00	0.07	0.41	0.09	0.75
North Wetlands***									
Proposed Project	0.00	0.00	0.00	0.00	0.00	00'0	00.0	00'0	0.00
First Phase	00'0	00.00	0.0	0.00	00.0	00.0	0.00	00:0	0.00
Official	0.00	00.0	0.28	0.07	00'0	0.00	0.02	0,28	0.65
Subtotal	00'0	0.00	0.28	0.07	00.0	0.00	0.02	0.28	0.65
T-6-1 4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			-						
Despessed Designs well and I inducary	8.6	0.00	6.0	0,14	0.0	0.00	0.03	0,56	1.30
First Phase	8.0	9 6	8 2	000	300	9 6	0.00	0.00	80.0
Officita	5 c	9 6	2 6	2 6	90.0	3.5	20.0	2 C	0.20
	- 14 - 14 - 14 - 14 - 14 - 14 - 14 - 14	2 6	) o	0.30	00.0	4.1	0.83	0.64	5.46
	2.4	20.0	0.50	00	0.00	41.0	0.63	0.81	5.74
Lotal Area - Couth of Callona Channel  Proposed Project	90 0	8	03 0	9	ć		2	<b>41</b>	
200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C 200 C	900	000	60.0	96.0	0.00	2.0	0.00	BL.0	88.0
100 H	0.00	3 6	20.0	3.6	6.60	0.00	8,6	0.50	4.09
Total	25.5	3 6	200	3 5	2.6	B 6	Ų.	0.74	10.44
				}	>	,,,	20,1	1.46	15,41

### SUMMARY OF TOTAL ZINC LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Tributary	Industrial	Commercial/R esidentia:	Commercial	Major Roadways	Open	High Density Residential	Low Density Residential	Open Space	
Nare				Runal Coefficients	ints				TZn Loads
	0.90	0.80	0.80	0 80	C.80	0.80	0.38	0.24	Subtotals
Freshwater Marsh (future)									
Proposed Project Boundary									
Proposed Project	0.00	00:00	7.89	80	00:0	8.0	00.0	22.0	3.66
First Phase	0.00	0.00	39,55	90.0	00.0	85.5	9C 0	80	40.07
Off-site Subtotal	0.00	0 <b>0</b>	34,93	88	8 <b>8</b>	0.6	12.00	08.0 •	47.53
Centinela Ditch at Lincoln									À
Proposed Project	0.00	00'0	00.00	000	80	00.0	900	000	0.00
First Phase	0.00	00'0	1.48	80	8	00:0	8	4	2.62
Off-site	000	0.00	9.22	0.74	00:00	00'0	2 38	20.0	13,01
Subtotal	00'0	00.0	10.69	0.74	00'0	0.00	2.98	1.21	15.63
Central Storm Drain (future)									
Proposed Project	0.00	00.00	0.00	0.00	00.0	00'0	800	000	0.00
Fust Phase	00'0	00.0	0.0	0.00	000	00.0	8	0.00	0,00
Or site	000	8 6	0.0	0.00	00 G	00.0	000	86	0.00
Rioine	0,00	0.00	0.00	0.00	9.9	0.00	90.00	0.00	0.00
Lincoln Storm Drain - South	i	;							
Proposed Project	00'5	8	3.	0.00	000	00.0	900	0.00	0.00
TIST TORSE	888	00.0	0.0	0.00	900	00.0	00°0	0.00	0,00
Suttotal	99.0	200	) is	5/1 2/2	) ()	3 :	8,8	0.0 0.0	12.53
Direct to Freshwater Marsh (Future)		25			30.5	‡	3	10.0	FC'71
Proposed Project	0.00	000	00.0	6.63	00.00	800	0.00	0.00	0.00
∸irst Phase	0.00	000	8.0	0.00	0.00	800	600	4	0.45
Off-site	98 C	90.0	80	0.0	0.00	00:00	00.0	0.00	0.00
Subtotal	00'0	0.00	0.00	0.00	0.00	0.00	0,0	0.44	0.45
Total Area - Freshwater Marsh Tributary	000								
	3 8	3 5	20 1	3:5	0,00	8.0	0.00	0.77	8.56
	3 8	B 6	41.02	3.0	0.00	8	0.0	2,1	43,15
n : 6 : 5	00.0	0,00	46.22	2.53	0.00	4	22.21	0.67	73,07
Total	0.00	00.00	95.14	2.53	0.00	4.	22.22	3,55	124.88
	M'M	000	92,14	2.03	0.00	1.44	22.22	3,55	T
							-    -		

### SUMMARY OF TOTAL ZINC LOADS (LBS.) PLAYA VISTA - South of Ballona - Pre First Phase

Tributary	industrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Oper	
Name				Runoff Coefficients	4 1				TZn Loads
	08:0	0.80	0.80	08'0	0.80	0.80	0.38	0.24	Subtotals
Ballona Wetlands									
Correction oform Urain -	200	8	5	00.0	5	8	200	6	2
Triggrade regions	8 6	38	9.4	800	38	38	3 8	3 55	. T
els-3C	46.32	88	2 6	13.34	8 6	3 6	90.6	290	77.30
Subtotal	46.32	0.00	6.24	13.31	0.00	78,	9.05	2.30	79.29
Former Area B Residential**									
Proposed Project	00:0	800	00'0	0.00	0.00	8.0	0.00	0.00	0.00
First Phase	0:00	8	0.0	0.00	900	8	0.0	0.00	0.0
Of-site Subtotal	0.00	8.8	00.0	000	900	88	0.00	0.00	8 6
Fact Wotlands									
Proposed Project	0:00	00.0	00.0	0.00	0.00	8.6	0.00	0.00	0.00
First Phase	00:0	90:00	0.00	0.00	0.00	00:00	0.00	0.00	00.0
Off-site	00.00	000	00.0	0.61	0.00	90.0	2.83	1,18	4.62
Subtotal	0.00	0.00	0,00	0.61	00.00	00.0	2.83	1.18	4,62
South Wetlands									
Proposed Project	0:00	86	00.0	0.00	8	8	90.0	0.00	0.00
First Phase	00:0	90'0	8.0	0.00	8	8	00.0	0.00	0.00
Of site	80	900	7.78	1.28	000	2.15	12.28	95.0	18.07
Subtotal	00.0	0.00	1.78	1.28	0.00	2.15	12.26	0.59	18.07
North Wettands***									
Proposed Project	0.00	900	0.0	0.00	8	8	0.0	0.00	0.00
First Prase	80	900	0.00	0.00	00.0	8	8.0	0.00	0.00
Off-site	88	0 <b>8</b>	3.25	3,46	9 <b>8</b>	88		- • 6 6	4.2
	20.5	3		***	20.0			***	
Total Area - Ballona Wetlands Tributary	00.0	20'0	6.50	6.93	0.00	00.00	1.01	3.83	18.29
Proposed Project	800	0.00	00.0	0.00	0.00	8	00.00	86.0	0.53
First Phase	80	0.00	0.16	0.00	0.00	86	0.00	1.30	1.46
Off-site	46.32	900	11,11	18.67	00.0	20.4	24.65	4.36	109,13
Total	46.32	0.00	11.27	18.67	0.00	4.02	24.65	6.19	111.12
Total Area - South of Ballona Channel			,					,	,
Hioposed Project	00.0	0.00	7.89	0.0	0.0	8 2	0.0	- 1.23 - 1.23	6 G
TICST Presse	00.0	500	41.18	0.00	000	9,00	0.0	3.42	44.61
	46.34	000	106.44	21.20	8.5	, K	40.00	3 1	235 99
				,					

TABLE F-18
SUMMARY OF ANNUAL LOADS (LBS)
PLAYA VISTA - South of Ballona - Pre First Phase

					Loads (lbs	i.}		•			
	T55	Total P	TKN	0.40	Yorel Ce	Diss. Cu	Total Pt	Diss. Pb	Total Za	Dise. Za	Volume (f
Freshwater Marsh (not in operation)											
Upper Centinela Ditch	47,639	178	1,384	1,293	14.1	66	7.9	3.6	96.3	57.3	9,095,26
Mass Removed in Upper Centinela Ditch	0	o	-383	0	-2.6	0.0	0.0	0.0	00	-27.5	-,,
Centinela Ditch at Proposed Project Boundary	47,639	178	1,000	1,293	11.5	6.6	7.9	3,6	96.3	29.8	9,095,26
Lower Centinela Diloh	16,794	33	254	200	2.5	1.2	1.2	0,6	15.6	7.3	2,165,47
Mass Removed in Lower Centinela Dilch	-1,715	0	-16	0	0.0	0.0	0.0	a a	0.0	-0.2	
Gentinela Ditch at Lincoln	62,718	<u>211</u>	1,239	1,494	14.1	7.B	9.1	4.2 0.0	111.9	36.9	11,260,73
Gentral Storm Drain	G.	0	Û	n	0.0	0.0	0.0	0.0	0.0	0,0	
Total Playa Vista Area	62,718	211	1,239	1,494	14	. 8	9	4	112	37	11,260,73
% of PV Area through WO Inlets	0%	0%	0%	0%	0%	9%	0%	0%	0%	0%	
% Removal - WQ Inlet	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
First and Second Phase, Including Offsite	62,718	211	1,239	1,494	14.1	7,8	9.1	4.2	111,9	36.9	11,260,73
Lincoln Storm Drain - South	4,666	28	200	<u>177</u>	<u>1.6</u>	08	0.5	0.2	12.5	7.5	1,744,99
Centinets and Lincoln	67,384	239	1,439	1,671	15.7	8.5	9.6	4.4	124.4	44.4	13,005,72
Mass Removed in Pretreatment Areas	۰ ا	0	0	a	0	0	0	ø	o	o	
Direct to Freshwater Marsh	4.499	3	20	Q	0.2	0.1		0.0	0.5	0.3	323,62
Main Body of Freshwater Marsh	71,683	241	1,459	1,671	15.9	8.6	0.1 9.7	4.4	124.9	44.7	13,329,35
Mass Removed in Main Body of Marsh	Q	q	0	0	0.0	0.0	0.0 9.7	0.0	0,0	0.0	,,
Effluent from Future Marsh Area	71,883	241	1,459	1,671	15.9	8.8	9.7	4.4	124.9	44.7	13,329,35
Ballona Wetlands										ļ	
Jefferson Storm Drain	59,399	117	794	706	9.6	4.5	4.1	1.9	79.3	47.2	7,500,119
Freshwater Marsh Effluent (Not in Operation)	71,683	241	1,459	1,671	16	9	10	4	125	45	13,329,35
East Wetlands	13,327	15	109	49	0.9	0.4	0.3	0.1	4.6	2.7	1,432,77
South Wetlands	12,848	44	327	241	2.4	1.1	0.8	0.3	18.1	10.8	3,113,82
North Wetlands	21,457	23	158	114	2.0	0.9	0.7	0.3	9.1	5.4	2,120,84
Former Area B	l c	0	0	0	0.0	0.0	0.0	0.0	0.0	0.0	
Off-site Stormwater Runoff Direct to Wetlands	47,632.2	818	594.6	403.8	5.3	2.5	1.7	0.B	31.8	18.9	6,667,439
Total Area - Ballona Wetlands Tributary	178,915	440	2,847	2,781	30.9	15.6	15.4	7.1	236.0	110.8	27,496,909
Mass Removed in Wellands	-111,028	<b>-4</b> 5	-526	-189	-5,4	-5.0	0.0	0.0	-1727	-84.7	
Balfona Wetlands Ettluent	67,887	395	2,321	2,592	25,5	10.6	15.4	7.1	63,3	26.1	27,496,90
Ballona Channel	!									[	
Freshwater Wetlands System	0	0	Ü	a	0	0	0	0	0	ol	
Ballona Wetlands	<u>67,887</u>	395	2,321	2,592	25.5	10.6	15.4	7.5	63.3	26.1	27,496,906.1
Total Ballona Channel Influent	67,887	395	2,321	2,592	25.5	10.6	15.4	7.1	63.3	28.1	27,496,905.1

TABLE F-19
SUMMARY OF ANNUAL CONCENTRATIONS (MG/L)
PLAYA VISTA - South of Ballona - Pre First Phase

				(	Concentratio	ons			•	1	
		mg/L			•		ugA			$\overline{}$	
	T\$5	York P	TKN	Owe	Total Co	Din. Cu	Tomi Ph	Diss. Pb	Total Za	Diss. 2n	Volume (i
Freshwater Marsh (not in operation)				i						- 1	
Upper Centimela Ditch	83.9	0.3	2.4	2.3	24.9	116	13.9	6.3	169.5	100.9	9,095,26
% Removed in Upper Centinela Ditch	0%	0%	28%	0%	18%	0%	0%	0%	0%	48%	
Centinela Ditch at Proposed Project Boundary	83.9	0.3	1.8	2.3	20,3	11.6	13.9	6.3	169.5	52.5	9,095,26
Lower Centinela Ditch	124 2	02	19	1.5	18.8	8.7	9.3	4.2	<b>†15.6</b>	53.8	2,165,47
Percent Removed in Lower Centinela Ditch	10%	0%	6%	0%	0%	0%	0%	0%	ο%	2%	
Centinela Ditch at Lincoln	89.2	0.3	1.8	2.1	20.0	11.0	12.9	5.9	159.2	52.5	11,260,73
Central Storm Drain	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0,0	0.0	
Total Playa Vista Area	89.2	0.3	1.8	2.1	20.0	11,0	12.9	5.9	159.2	52,5	11,260,73
First and Second Phase, Including Offsite	89.2	0.3	1.8	2.1	20.0	11.0	12.9	5.9	159.2	52.5	11,250,73
Lincoln Storm Drain - South	42.8	0.3	1.8	1.6	15.1	7.0	4.7	2.1	115.0	68.4	1,744,99
Freshwater Marsh	83.0	0.3	1.8	2.1	19.4	10.5	11.0	5.4	153.3	54,7	13,005,72
	1										13,005,72
% Removed in Primary Management Areas	0%	0%	0%	0%	0%	0%	0%	0%	17%	0%	
Direct to Freshwater Marsh	222.7	0.1	1.0	0.0	8.9	4.1	3.2	1.5	22.3	13.3	323,62
Main Body of Freshwater Marsh	864	0.3	18	2.0	19.1	10.3	11.6	5,3	150.1	53./	13,329,35
% Removed in Main Body of Marsh	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
Effluent from Future Marsh Area	86.4	0.3	1.8	2.0	0.0	0.0	0.0	0.0	0.2	0.1	13,329,35
Ballona Wetlands											
Jefferson Storm Drain	126.9	0.2	1.7	1.5	20.6	9.6	8.7	4.0	169.3	100.8	7,500,11
Freshwater Marsh Effluent (Not in Operation)	86.4	0.3	1.8	2.0	19.1	10.3	11.6	5.3	150.1	53.7	13,329,36
Fast Wetlands	0,0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,432,77
South Wellands	66.1	02	17	1.2	12.4	5.8	3.9	1,6	92.9	55.3	3,113,82
North Wetlands	162,1	0.2	1.2	0.9	15.0	7.0	4.9	-2.3	69 1	41.1	2,120,84
Former Area B	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Off-site Stormwater Runoff Direct to Wetlands	114.4	0.2	1.4	1.0	12.6	5.9	4.0	1.9	76.5	45.5	6,667,439
Total Area - Bellona Wetlands Tributary	104.2	0.3	1.7	1.0	18.0	8.1	9.0	4.1	137.5	64.5	27,496,90
Mass Removed in Wetlands	62%	10%	18%	7%	17%	32%	0%	0%	7.1%	76%	
Ballona Wetlands Effluent	39.5	0.2	1.4	1.5	14.8	6.2	9,0	4.1	36.9	15.2	27,496,90
Ballona Channel				i						- 1	
Freshwater Wetlands System	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Ballona Wetlands	39.5	0.2	1.4	1.5	14.8	6.2	9.0	4.1	36.9	15.2	27,496,905,1
Total Baltona Channel Influent	39.5	0.2	1.4	1.5	14.8	6.2	9.0	4.1	36.9	15.2	27,496,905,1

TABLE F-20

#### SUMMARY OF ANNUAL RUNOFF (FT) PLAYA VISTA - FIRST PHASE PROJECT

Tributary	ndustrfæ	Commercial Residential	Commercial	Major Roadways	Open Water	High Density Residential	Cow Density Residential	Oper	
Name				Runoff	Runoff Coefficients				Volume (ff3)
	0.80	CS:0	0.80	08'0	08:0	08.0	0.38	0.24	Subtotals
Frashwatar Marsh Riparian Corridor at Proposed									
Project Boundary									
Proposed Project	0 (	0 (	528919	0 (	33361	0 (	0 (	650631	1124410
First Frase	o.	0	2426115	0	42215	0	0	77405	2645735
Off-site	2022	o c	5346120	15237	0	00	1979755	483836	4841047 8611192
Riparian Corridor at Lincoin									
Proposed Project	0	0	0	Ó	o	0	D	o	٥
First Prase	0	0	SC6565	o	331834	1010063	0	181324	2029776
Off-site	D (	0.	609830	0.6	0	0	505353	0 70	1115183
Subjection Assessor Printed		3	00001	•	221004	200010	000000	N78191	PORT C
Area	2032	0	8432508	15237	507910	1010063	2485108	1303286	11756152
Central Storm Drain									
Proposed Project	0	Ü	o	a	G	0	υ	378494	378494
First Phase	O	0	1293815	o	c	.835480	U	133475	3363784
Office te	339	o	o i	275964	<b>a</b>	C	Ų,	0	276303
Subtotal	333	0	1293815	275964		1935490	7	511973	4018581
Jefferson Storin Orain Proposed Protect	Ç	7250	n	c	<u> </u>	12384	Q	Ф	19334
	Ų	0	507232	. 0	0	629469	Ų	18691	1155393
Off-s.ta	2216163	U	400910	1378805	0	310502	1500615	6298	5812297
Subtotal	2215163	7250	908142	1378805	0	962065	1500819	24969	5987025
incoln Storm Drain - South									
Proposed Project	Ç.	0	<b>с</b>	0	0	c	0	o	<b>o</b> ,
First Phase	ပ္	o c		0	D (	0 000	0.0404	2438	2438
Ostore Sectores	) <b>c</b>	, =	130025	209259		238379	000.511	2438	17777
Freshwater Wetlands	,								
Proposed Project	o	ن	C	0	0	6	0	0	0
First Phase	ဝ	٥	c	9481	328448	٥	1608	220536	560173
Off-ste	o	ن	۵	o	0	0	٥	•	0
Subtotal	0	0.	0	9481	328448	0	160B	220636	560173
Fotal Area - Freshwater Mersh Tributary									
Proposed Project	ō	7250	529919	0	33861	12084	0	939:25	1522238
First Phase	0	•	4733717	9481	802497	3576022	1608	633973	9757299
Off-site	2217533	o \$	3500852	1879266	0	548881	5183328	460234	13820093
Loto	2247533	-	0077010	******	02000	110001	400000	2062290	•

TABLE F-20

#### SUMMARY OF ANNUAL RUNOFF (FT) PLAYA VISTA - FIRST PHASE PROJECT

Name  Parmer Area B Residential  (Direct to Ballona Channel) Proposed Project Off-site Subtotal First Phase Off-site Ballona Wortlands East Wortlands First Phase Off-site Total Subtotal Total Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site Subtotal Off-site	0000 0000	0 000 000	Runoff Coefficients	officiants.				Volume (#3)
S Residential ona Channel) nds mids		09 0. 000 0. 000	0.60	100				Subtotela
B Residential ona Channel)	0000 0000	0000		0.80	0.80	0.38	0.24	elphalaine
ona Channel) ner Area B	0000 0000	0000	-					
ner Arsa B	0000 0000	0000	-				-	
ner Area B	000 0000	000	G	0	0	٥	0	٥
nds	0000	3 <b>0</b> 000	0	G	o ·	o	•	0
nds	0000	> 2000	285445	0.6	00	Ç ¢	512786	798231
nds	0000	2000	2000	١		=	912/86	758231
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spu	000	000	0	0	0	o	Ö	0
n ds	00	00	•	0	•	o	o	٥
nds .	,		285445	00	00	0 0	512786	788231
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	0	0	o	0	•	0	0	0
	0 (	0 4	74832	30475	0	46B521	859891	1433719
	5	5	74832	30475	٥	468521	859691	1433719
	_	•	·	4	,	•		
		 	00	> <		 		<b>5</b> 6
	•	1.8528	117835	5417	356875	2032349	433348	3513113
<u> </u>	¢	119528	117836	7	355875	2032349	433348	3113113
<u> </u>								
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_	90	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	19/408	98196		84.15	1202527	1800368
						5	17770	0000000
Total Area - Ballons Wetlands								
	,							
deoi	0		0	ü	0	0	0	Ö
	ייט	0 .	0	0	0	0	o	
Total	ټ د	337029	390075	182847	356214	2584969	2495766	6347820
								030/100
Total Area - South of Ballona								
+	CHE	0,000,00	,		,		,	
	027	RIGATE	<b>-</b>	33861	12084	0	<b>#39125</b>	1522239
		4733747	5484	802497	3678022	1608	633973	8757299
Total	_	0403447	2564755	16284	900089	7768316	3458786	20956144

#### TABLE F-21a

# SUMMARY OF TOTAL SUSPENDED SOLIDS RUNOFF LOADS (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

			VII.1 - LUI MI	TOTAL AND LINES THOSE TRUJECT	りだい	וישר			
Tributary	industrial	Commercial/R esidential	Commerciai	Major Roadways	Open Water	High Density Residential	Law Density Residential	Open Space	
Name				Runoff Coef	Ticlerts				TSS Loads
	0.30	0.80	0.80	0.90 0.80	0.80	0.85	0.36	0.24	Subtotals
To the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se									
FORTIER AFER IS RESIDENTIA	-								
Proposed Project	00.0	0.03	0.00	00.0	8.0	00.0	0.00	0.00	00.0
	88	0.0	0.0	8.0	000	0.00	0.00	0.00	00.0
Subtotal	5 6	8 8	86	702.13	8	0.0	0.00	7,158.48	7850.61
Total Area - Former Area B			0,00	( 02.13	3	8.6	0.00	7158.48	7850,61
Residential									
Proposed Project	000	00.0	900	0	9	80	50	9	
First Phase	000	00'0	000	800	8 6	38	88	38	0.00
Off-sife	00.0	00.0	000	702 13	88	88	800	7.153.48	7,860,61
lotal	0.00	0,00	00.0	702.13	00.0	00.0	0.00	7158.48	7860.61
Ballona Wetlands									
East Wetlands					_		•		
Proposed Project	000	90.0	0.00	85	90.0	00.0	00.0	00.0	9
First Phase	0.00	9.0	00.00	00.0	0.0	0,00	8 8	000	000
Off-site	0.00	000	00.0	184.07	0.00	0.00	1,178,26	12.004.07	13356.39
Subtotal	0.00	0.00	0.00	164.07	0.00	00.0	1173.26	12004.07	13366.39
South Wetlands									
Proposed Project	0.00	S. S.	6.6	90°C	0.00	00.0	0.00	0.00	0.00
FILST FILSTS	0.00	6.63	0.00	8	0.0	0.00	0.00	0.00	0.00
	0.00	8:0	504.61	235.85	00.0	894.97	5,111.04	5,049.54	12850,01
Note Modern	00'0	0.00	504.81	289.85	9,0	894.97	5111.04	6049,54	12350,01
NOTE WELLS STORY	Ç		;						
Tret Diago	38	8.0	0.00	0.0	00 00	8	0.00	00.0	0.00
Off-site	8 6	8 6	200		8 8	8 6	000	00:0	0.00
Subtotal	0.0	8	922.02	485 53	38	0.00	211.94	16,757.26	18407.25
							5	07.7010	1840/ 23
Total Area - Ballona Wetlands									
District District	8	8	;	-					
First Phase	3.0	36	36	88	8 8	88	88	0.00	00'0
Off-site	0.00	0.00	425 63	9,000	3 8	00.00	300	0.00	0.00
Total	0.00	0.00	1426.63	936.43	000	895.82	6500.84	34,840.67	44523.65
							100000	24040.01	44043,03
Total Area - South of Ballons									
Channal									
Proposed Project	0.00	24.42	2237.15	0.00	00.0	30.39	00.0	13110.17	15402,13
	0.00	0.0	19984.23	23,32	80.0	8993,14	<b>4.04</b>	8850.25	37854.98
Total	24620.63	24.42	38437 47	6284.17 6307 80	88	2276.17	19536.10	48843.01	117768,18
				2011242	7.7.7	1 1202,10	CI. Necel	10503,44	171023.30

#### TABLE F-21b

# SUMMARY OF TOTAL SUSPENDED SOLIDS LOADS REMOVED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

Tributary	Industriai	Commercial/R esidential	Commercia	Major Roadways	Open Water	High Density Low Density Residential Residential	Low Density Residential	Open Space	
Name				Runoff Coefficients	ents				TSS Loads
	0.80	0.80	0,80	080	0.80	0.80	0.38	0.24	Subtotals
Freshwater Marsh Riparian Corridor at Proposed Project Roundaw									
Proposed Project	0.0	0.00	0.00	00.0	0.00	0.00	0.00	0.00	00.0
First Phase	0.0	8.	0,00	000	0.00	0.00	00.00	000	0.00
Off-site Subtotal	88	88	0,0	00.0	0.6	0.0	0.00	8 8	0.00
Riparian Corridor at Lincoln				200		2012	200	ŝ	2010
Proposed Project	0.0	80	0.00	0.00	000	0.00	0.00	8	0.00
First Phase	0.00	8.0	0.00	0.00	0.00	0.0	0,00	0.0	00.0
Off-site	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Subtotal	0.00	00'0	0.00	0.00	0.00	0.00	0.00	0.00	00.0
Total Riparian Corridor Tributary	_								
Area	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.00
Central Storm Drain Proposed Project	9	000	000	000	000	90.0	00.0	6	90.0
First Phase	000	0.00	000	0.00	000	000	000	000	90.0
Off-site (Lincoln Blvd Bloswale)	000	000	000	-211.61	0.00	000	0.00	000	-211,61
Subtotal	0.00	0.00	0.00	-211.61	00'0	00,0	0.00	00.0	-211.61
Jefferson Storm Drain									
Proposed Project	90.00	0,00	000	00'0	0.00	00.0	0.00	0.0	0.00
First Phase	9.0	0.00	0.00	00.0	0.00	00'0	0,00	000	0.00
Off-site	8:	0.00	0.00	0.00	0.0	0.00	00'0	000	0.00
Subtotal	0.00	0.00	0.00	0.00	0.00	0.00	00'0	0.00	0.00
Lincoln Storm Drain - South									
Proposed Project	8.5	00.0	000	0.0	8	8 0	0.0	000	0.00
0.00 (4.6) 13.18(C)	9.6	0.0	0.00	0.00	0,5	8 ;	0.00	8	0.0
Cal-site (CDS Unit)	9 9	0.0	0.00	0 <b>0</b>	0.0	00.0	0.00	8 8	0.00
Freshwater Wetlands									
Proposed Project	0.00	0.00	0.00	00.0	0.00	0.00	0.00	0.00	0.00
First Phase	0.00	0.00	0.00	0.00	0.00	00.0	00.0	0.0	00'0
Official	0.00	0.0	0,00	0.0	0.0	0.00	00.0	0.00	0.00
Subtotal	0.00	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00
Total Area - Freshwater Marsh Tributan									
Proposed Project	0.00	00.0	00.0	00.0	000	000	000	000	0.00
First Phase	0.0	0.00	00.0	00.0	000	8	000	000	0.00
Off-site	0.00	0,00	00.0	0.0	0.00	00'0	00.0	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	00'0	0.00	0.00

#### TABLE F-21b

# SUMMARY OF TOTAL SUSPENDED SOLIDS LOADS REMOVED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

Tobutary	ndustriai	Commercial/R esidential	Commercial	Major Roadways	Open Water		High Density Low Density Residential Residential	Open Space	
				Runoff Coefficients	ents				TSS Loads
	0.80	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subfotels
Former Area B Residential									
Proposed Project	000	0.00	00'0	00'0	0.00	0.00	00:0	0.00	0.00
First Phase	0.00	0,00	0.0	0.00	0.00	0.00	0.00	0.00	0.00
Off-site	00.0	00:0	80'0	00'0	000	0.00	0.00	0.0	0.00
Subfotal	0.00	0.00	0.00	0.00	0.00	0.00	00.0	8.0	00.0
Total Area - Former Area B									
Residential									
Proposed Project	0.00	0.00	90.0	00.0	000	0.00	00:00	8	00.0
First Phase	0,0	00'0	80	00.0	0.00	0,00	0.00	8	0.00
Off-site	0,00	00'0	90.0	0.00	00.0	0.00	00:0	8.6	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ballona Wetlands									
East Wetlands	0.00	0.00	8.0	00'0	0.00	0.00	00.0	8.0	0.00
Proposed Project	0,00	00'0	0.00	0.00	00.0	00.0	00.0	0,0	00'0
First Phase	0.00	90'0	8.0	00.0	0.00	0.00	00.0	800	0.00
Off-site	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0,00	0,00
Subtotal									
South Wetlands	į		;	;	į	;	;	;	;
Proposed Project	0.00	00.0	8 :	000	00.0	0.00	0.00	8.	0.00
Tirst Phase	9 6	8 6	8 8	0 6	00.0	00.0	0.00	8 8	0.00
0.1-610	900	200	8 6	0.00	00'0	8 6	00.0	3 3	0.00
Sublotal	0.00	00.0	00'0	0,00	00'0	0.00	0.00	90,0	0.00
North Wetlands		!		;					
Proposed Project	9.0	0.0	0.0	00.0	0.00	86	0.00	8	0.00
	0.00	00.0	8 6	00.0	86	000	0.00	8	0.00
On-side On-thesial	000	00.0	9 8	0 6	80.0	00'0	000	8 8	0.00
IRIOGRA	20.0	00'0	0.00	0.00	n'n	00.00	00.00	30°0	00'0
Total Area - Ballona Wetlands									
Tributary									
Proposed Project	0.00	0.00	0000	00.0	0.00	00.00	0.0	8	0.00
First Phase	0.00	0.00	0.00	0.00	0.00	8	8.0	8.0	0.00
	9.0	0.00	0.00	0.00	00.0	0.00	90.0	8	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00
Total Area - South of Ballona									
Proposed Project	000	000	000	Q	8	000	8	000	0
100000000000000000000000000000000000000	3 6	000		3 6	3 8	8 8	3 8	9 6	9 6
Hart Hood	8 6	86	000	88	3 8	88	38	9 6	800
Total	0,00	0.00	0.00	0.00	0.00	0.00	000	0.00	0.00

TABLE F-21a

# SUMMARY OF TOTAL SUSPENDED SOLIDS RUNOFF LOADS (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

Tributary	ladustrial	Commercia./R esidential	Commercial	Major Roadways	Coen Water	High Density Residential	Low Density Residentia:	Open Space	
Name				Runoff Coefficients	ficients				TSS Loads
	0.80	0,80	0,80	0.80	0.60	03.6	0.38	0.24	Subtotals
Freshwater Marsh Riparian Corridor at Proposed Project Boundary									
Proposed Project	00.0	0.00	2,237.15	88	89.0	88	88	7,826.40	10063.54
First Phase Off-site	0.00 86.00	88	10,242.27	37.48	3.8	3 8	4.978.78	6,755,74	21758.08
Subtotal	22.56	0.00	22442.95	37,48	0.0	0.00	4978.78	15662.72	43144.48
Riparian Corridor at Lincoin		_							
Proposed Project	00'0	0.00	00'0	00.0	9.0 8	0.00	0.00	00'0	0.00
=Irst Phase	88	0.00	2,138.51	88	900	2,540.15	0.00	2,531.28	7209,94
Ci-sile Subtotal	3 8	0.00	4713.02	000	8	2540,15	1270.88	2531,28	11055.33
Total Riparian Corridor Tributary									
Area	22.56	0.00	27155.96	37.48	0,00	2540.15	6249,56	13194.00	54199,81
Central Storm Drain			,		6	0	0	77 500 4	K2003 WW
Proposed Project	38	88	0.00	500	3 8	0.00 4 869 97	3 3	1,863.77	12495.40
	3 %	38	0.00	678.81	8 8	000	000	0.00	682.57
Subtotal	3.76	800	5462.07	678.81	00'0	4869,97	0.00	7147,14	18161.74
Jefferson Storm Drain								į	;
Proposed Project	8.0	24 42	800	0.00	8	30.39	8,0	0,00	54.81
First Phase	00.0	8	2,141.37	0.00	800	1,583,02	0.00	260.93	3985.32
O'f-site	24,564.31	88	1,692.51	3,391 54	00.0	2394.27	3,773.82	348.85	38361.10
Subjour	E+0047	74.45	200000	10:10:0		100.00			
Lincoln Storm Drain - South Proposed Project	00'0	00.0	ģ	0.00	00.0	00:0	0.00	0.00	00.00
First Phase	00.0	80	90°C	00,00	0.00	8.0	0,00	34.03	34.03
Off-site Subtotal	0 <b>0</b>	0.00 <b>6</b>	548.92 548.92	514.73	0.00 <b>0.0</b> 0	599.49	3,011.78	34.03	4674.91
Freshwater Wedands									1
Proposed Project	800	86	86.6	20°0	8.6	80.6	8.0	0.00	0,00
First Phase	3 6	8 6	000	23.32	3 5	3 6	3 5	3,000.0	* 00 c
Subtotal	000	00:0	00.0	23.32	0000	3 6	<b>70.4</b>	3080.07	3107.44
Total Area - Freshwater Marsh Tributary									
Proposed Project	850	24.42	2,237.15	00.00	8.3	30.39	00.00	13,110.17	15402.13
First Phase	000	0:00	19,984.23	23.32	8	8,993.14	8. 8.	8,850.25	37854.98
Off-site Total	24,620,63	0:00 <b>24:42</b>	14,779.47 37000.84	4,622.55	88	1,380.35	13,035.26 <b>13039,30</b>	6,843,67 28804,09	118539.04

TABLE F-22a

SUMMARY OF TOTAL PHOSPHORUS RUNOFF LOADS (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diagram   Diag		Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open	
0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,80         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90         0,90 <th< th=""><th>Tributary</th><th></th><th></th><th>]"</th><th>Punoff Coeffic</th><th>ents</th><th></th><th></th><th></th><th>Speo 1 di</th></th<>	Tributary			]"	Punoff Coeffic	ents				Speo 1 di
0.00 0.00 13.21 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	o Lev	0.80	0.80		08.0	0.80	0.80	0.38	0.24	Subtotals
Diamo	Freshwater Marsh									
att Lincoln         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Riparian Condor at Proposed									
0.00	Project Boundary	8	00.0	13.21	0.0	00.0	0.00	00.0	4.33	17.54
0.04   0.00   58.83   0.28   0.00   0.00   22	Proposed Project	8 6	000	50.47	00.0	0.00	00'0	8	0.60	51.07
0.04         0.00         132.51         0.2B         0.00         0.00         0.00           0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	7	200	8.0	58.83	0.28	0.00	000	29.22	7.0	470.72
0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00 <td< td=""><td>Subtotal</td><td>0.04</td><td>0.00</td><td>132.51</td><td>0.28</td><td>0.00</td><td>90.0</td><td>23.22</td><td>9700</td><td>41701</td></td<>	Subtotal	0.04	0.00	132.51	0.28	0.00	90.0	23.22	9700	41701
1,000   0,000   1,000   0,000   14,91   0,000   0,000   14,91   0,000   0,000   15,20   0,000   0,000   14,91   0,000   0,000   0,000   0,000   14,91   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,000   0,00	Riparian Corridor at Lincoln			6	8	0	60 6	00.0	0,0	0.00
Storm Drain   0.00   0.00   15.20   0.00   0.00   14.91   3   3   3   3   3   3   3   3   3	Proposed Project	0.0	00.0	0.00	3 8	800	9.41	00.00	1.40	28.94
Parlian Corridor Tributary   0.00   0.00   14.91   17.83   0.00   0.00   14.91   17.83   0.00   0.00   14.91   17.83   0.00   0.00   14.91   17.83   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	First Phase	8 6	200	15.20	38	8	00,0	7.46	0.00	22.66
Storm Drain Corridor Tributary   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.	Official Buttern	38	0.00	27.83	0.00	0.00	14.91	7.46	\$	51.60
Seed Project	Total Riparian Corridor Tributary		900	160.34	0.28	0.00	14.91	36.68	10.08	222.32
1.50uth   0.00   0.00   0.00   0.00   0.00	Area Contral Storm Disin							-		600
Drain         0.00         0.00         32.25         0.00         0.00         28.58           0.01         0.00         0.00         0.00         0.00         0.00         28.58           0.01         0.01         0.00         0.14         0.00         0.00         0.00         28.58           0.00         0.00         0.14         0.00         12.64         0.00         0.00         9.29           42.62         0.00         0.00         12.64         0.00         0.00         0.18           1ain - South         0.00         0.00         0.00         0.00         0.00         4.58           1ain - South         0.00         0.00         0.00         0.00         0.00         4.58           1ain - South         0.00         0.00         0.00         0.00         0.00         4.58           1ain - South         0.00         0.00         0.00         0.00         0.00         0.00         0.00           1ain - South         0.00         0.00         0.00         0.00         0.00         0.00         0.00           1ain - South         0.00         0.00         0.00         0.00         0.00         0.00	Concrete Scottle Cress	00:0	0.00	00.0	0.00	0.00	00.0	0.0	2.93	26.7
Storm Drain	First Phase	0.00	00.0	32.25	0.00	0.00	28.58	0.00	3 6	20 t
Storm Drain		0,0	00.0	0.00	90.5	88	00,00	000	8 8	68.69
Storm Drain 0.00 0.14 0.00 0.00 0.18 0.18 12-64 0.00 0.00 0.18 0.00 0.19 0.19 0.00 0.00 0.00 0.29 0.00 0.00 0.00 0.29 0.00 0.00	Subtotal	0.04	00.0	32.25	5.08	3	06,02			
rain - South 0.00 0.01 12.64 0.00 0.00 9.29 42.62 0.00 9.99 2.543 0.00 4.58 42.62 0.00 9.99 25.43 0.00 4.65 42.62 0.00 0.00 0.00 0.00 14.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Jefferson Storm Drain	-	7	6	90	00.0	0.18	0.00	0.00	0.32
rm Drain - South         0.00         9.99         25.43         0.00         4.58           rm Drain - South         0.00         0.00         0.00         0.00         0.00         0.00         4.56           roject         0.00         0.00         0.00         0.00         0.00         0.00         0.00           roject         0.00         0.00         0.00         0.00         0.00         0.00         0.00           roject         0.00         0.00         0.00         0.00         0.00         0.00         0.00           reject         0.00         0.00         0.00         0.00         0.00         0.00         0.00           reject         0.00         0.00         0.00         0.00         0.00         0.00         0.00           - Freshwater Marsh         0.00         0.14         13.21         0.00         0.17         0.00         0.18           reject         0.00         0.14         13.21         0.00         0.17         0.00         0.18           reject         0.00         0.14         13.21         0.00         0.17         0.00         0.18           reject         0.00         0.14	Proposed Project	0.00	* 6	25.5	000	000	0 0	00:0	0.14	22.08
Sicorm Drain - South   42.62   0.14   22.64   25.43   0.00   14.65   1.5	First Phase	3.5	38	65 5	25.43	0.0	4,58	22.15	0.05	104.83
rm Drain - South         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Officers	42.62	41.0	22.64	25.43	0.00	14,05	22.15	0, 19	127.23
roject         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         <	Incoln Storm Drain - South					- 3		ć	5	00
Wetlands	Proposed Project	0.00	00.00	00.0	8 6	3 8	3 6	3 6	0.02	0.02
Ter Wetlands  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,000  1,	First Phase	900	0.00	8 6	9 6	3 6	3,50	17,68	0.0	28,30
For Wetlands  1 Project  2 0.00  3 0.00  3 0.00  4 2.67  5 0.04  5 0.05  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00  6 0.00	Off-site	8 8	0.00	3.24	38.6	0.00	3.52	17.68	0.02	28.31
100   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0	Frashweter Wetlands					-		6	8	0
inwater Marsh 0.00 0.00 0.00 0.17 0.00 0.00 0.00 0.00	Proposed Project	0.00	00.00	000	00:0	8 6	9 6	5 6	3 5	5
6,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,18 0,000 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,000 0,18 0,18	First Phase	9.0	00'0 0	0.00	0.17	9 6	3 6	2000	000	00'0
A 2.67 0.00 0.14 13.21 0.00 0.18 0.18 0.00 0.00 0.18 0.00 0.00	Off-site	88	0.0	000	0.00	800	8 8	0,02	1.71	1.90
0.00         0.14         13.21         0.00         0.08           0.00         0.00         117.99         0.17         0.00         52.78           42.67         0.00         87.26         34.66         0.00         8.10           42.67         0.14         2.18.46         34.84         0.00         61.05	Subtotal	B.:0	20.0		,					<u> </u>
0.00 0.14 13.21 0.00 0.00 0.18 0.00 0.00 117.99 0.17 0.00 52.78 42.67 0.00 87.26 34.66 0.00 8.10 42.87 0.14 2.18.46 34.84 0.00 61.05	Total Area - Freshwater Marso								-	
0.00 0.00 117.99 0.17 0.00 52.70 42.67 0.00 87.26 34.66 0.00 8.10 42.87 0.14 2.18.46 34.84 0.00 61.05	Proposed Project	0.0		13.21	0.0	8.6	_	8 6	8.8	175.87
42.67 0.00 87.26 34.86 0.00 61.05 42.67 0.14 2.18.46 34.84 0.00 61.05	First Phase	00.0		117.99	0.17	3 8		76.50	27.6	_
42.67 U.14 £18.40 CT-CT	Off-site	42.67		87.26	\$ 5 6 5 8 6	3 6	_	76.53	16.95	
	Total	42.67	4	210.40	10.10		╀			

TABLE F-22a

						4:17			
	industrial	Commercial/ Residential	Commercial	Major Roadways	Open	nign Density Residential	Low Density Residential	Space	
Tributary				Pupoff Cooffic	Sients				TP Loads
⊕E.eX	0.80	0.80	0.80	0.80 0.80	0.30	0.80	0.38	0.24	Subtotals
Former Area B Residential Proposed Project First Phase Off-site	<u> </u>	00.0 00.0	l,	0.00 0.00 5.27	00.0	00.0 00.0 00.0	00.0	0.00 0.00 3.97 3.97	0.00 0.00 9.23 9.23
Subtotal Total Area - Former Area B Total Area - Former Area B Total dential Proposed Project First Phase Off-site	8 8 8 8	00000	00.0	0.00 0.00 5.27	00.0	0.00	0.00 0.00 0.00 0.00	0.00 0.00 3.97 3.97	0.00 0.00 9.23
Total	on n	20.0							
Ballona Wetlands East Wetlands Proposed Project	00.0 00.0	00:0	0.0 00.0	00.0	0.0	00.0	0000	000	0.00
Off-site Subjects	00.0	0.00	0.00	1.38	0.0	8.6	6.92	8,65	14.94
South Watlands Proposed Project First Phase	0.00	00.00	0.00 0.00 2.98 2.98	0.00 0.00 2.17 2.17	00.0	0.00 0.00 5.25 5.25	0.00 30.00 30.00	0.00 0.00 3.35	0.00 0.00 43.75
Subtotal	3,5				_	L			-
North Wetanus Proposed Project First Phase Off-site	9 6 6 6	0.000	0.00	- 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	00000	8 0 0 0	000 77	0.00 0.00 0.00 0.00 0.00 0.00 0.00	0:00 0:00 19.63
Subtotal	0.00	200	-						
Total Area - Ballona Wetlands Tributary	-		6		6		80	0,00	
Proposed Project	8 8	0.00	0.00	200	88		0.00	0.00	
Off-site Total	00.0 00.0	0.00	8,42 8,42	7.20	0.0	5.26 5.26	38.15 38.15	19.30	78.33
			-						
Total Area - South of Ballona Channel Proposed Project	00:00		13.21	0.00	0.00	0.18	0.00	7.26	20.79
First Phase Off-site	0.00	0.00	96.68		0.0		_	27.05	_

TABLE F-22a

SUMMARY OF TOTAL PHOSPHORUS RUNOFF LOADS (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

Aunoff Coefficients         0.80         0.80         0.80         0.80         0.24           0.14         226.89         47.30         0.00         66.32         114.68         39.22		Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Vater	High Density Residential	Low Density Residential	Open Space	
0.80 0.80 0.80 0.80 0.80 0.38 0.24 0.14 226.89 47.30 0.00 66.32 114.66 39.22	_!_				Runoff Coeffic	ients				TP Loads
0.14 226,89 47.30 0.00 66.32 114,68 39,22			200	08.0	0.80	08.0	0.80	0.38	0.24	Subtotals
0.14 226.89 47.30 0.00 66.32 114.88 38.22	_	0.0	3.5	25.5					CC 00	CC 7.23
	t	42.67	0.14	226.89	47.30	0.00	66.32	114.90	33.55	44.100

TABLE F-22b

SUMMARY OF TOTAL PHOSPHORUS REMOVED (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

Name	•	Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Water	High Density Low Density Residential Residential	Low Density Residential	Open Space	
0 000 0 000 0 000 0 000 0 000 0 000 0 000 0	Inbutsity				Runoff Coeffic	ients				TP Loads
0000 0000 0000 0000 0000 0000 0000 0000 0000	P	0.80	0.80	Н	0.80	0.80	0.80	0.38	0.24	Subtotals
at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lincoln  at Lin	shwater Marsh rian Corridor at Proposed									
rat Lincoln  o.000  o.0	act Boundary	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	00.0
0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00		8	800	0.00	0.00	0.0	0.0	0.00	0 0	900
1000 0.00 0.00 0.00 0.00 0.00 0.00 0.00	ite	800	86	80	0.00	8 8	0.00	200	0.0	0.00
Life IV Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Contro	otal	000	0.0	00.00	20.0					
sed Project 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	rian Corridor at Lincoln	6	ć	9	6	9	00.0	00.0	0.0	0.00
Phase	osed Project	3 6	3 6	3 5	88	0.00	000	00,0	8	0.00
Storm Drain	Prince	3 5	3 6	9 0	8	8	00.0	000	00.0	00.0
Storm Drain   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	illo pota	000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	000
al Storm Drain  Storm Drain  O.00  O	I Riparian Corridor Inbutary			900	600	8	00.0	0.00	000	00'0
Tain 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		0.00	20.0	30.0		2			_	
Not. Bicswales  0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	traf Storm Drain	5	5	000	0.00	0.0	0.00	00.0	0.00	0.00
00.0 00.0 00.0 00.0 00.0 00.0 00.0 00.	Joseph Project	3 8	800	80	800	000	000	00'0	000	0.00
00.0 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Frase the Cincoln Blvd, Bioswales)	00.0	00.0	00:0	0.00	0.0	00'0	0.0	0.00	00,0
Storm Drain	total	0.00	0.00	0.00	0.00	89	0.00	0.00	3	0.00
roject 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000 0,000	erson Storm Drain					- 8	9	2	000	0.00
mm Drain - South 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	sosed Project	0.0	000	0.00		3 8	86	866	8	00'0
Storm Drain - South	: Phase	000	8 8	2 5	3 6	3 8	900	000	000	0.00
Storm Drain - South 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	site	9 9	900	000	000	00.0	00'0	0.00	0.00	0.00
Storm Drain - South	riotal	20,0	3						_	
### Project	sain Storm Urain - South	000	000	00'0	0.00	8	0.00	0.00	0.00	00.0
CDS Unity	Diago.	8	000	00.00	0.00	8	0,00	8 6	0.0	0.00
ater Wedands  c) 0.00  d) 0.00  d) 0.00  d) 0.00  d) 0.00  d) 0.00  ese  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00	site (CDS Unit)	800	0.00	00:0	8.6	800	8.8	000	9 6	00.0
A Project Vertands 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	stotal	9.00	0.00	0.00	95.0	30.0	0.00		3	
d Project 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	shweter Wetlands		6	2	6	ç	8	00.0	8	00.0
See 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	posed Project	3 6	86	86	000	00.0	000	0.00	0.0	0.00
Fea - Freshwater Marsh 6.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	t Phase	8 8	800	0	00.0	900	00.0	0.00	0,00	0.00
Area - Freshwater Marsh 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	ototal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8	0.00
Any sed Project 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	al Area - Freshwater Marsh				_					
hase 0.00 0.00 0.00 0.00 0.00	outany mosest Project	0.00	0.00	0.00	0.00	0.00		00'0	0.00	0.00
0.00 0.00 0.00	Total Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments of the Comments	00'0	000	0.00	000	80		86	000	0.00
	site	8	8 8	000	000	0.5	3 5	3 8	0.0	000
0.00	a	0.00	0.00	30:0	20.0		1			

TABLE F-22b

SUMMARY OF TOTAL PHOSPHORUS REMOVED (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

	Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Water	High Density Low Density Residential   Residential	Low Density Residential	Open Space	
Tributary				Runoff Coefficients	ients				TP Loads
	0,80	0.80	080	0.80	0.80	08'0	0.38	0.24	Subtotals
Former Area B Residential									
Proposed Project	0.00	0.00	0.00	0.00	00.0	0.00	0.00	20.0	000
Tiret Disse	0.00	0.00	000	0.0	8	0.00	00.0	3 6	96.6
	9.0	0.00	0.00	00'0	00	0.00	9.6	3 6	96
Subtatal	0.00	0.00	0.00	00.0	3	00.0	80.0	2	2
Total Area - Former Area B	ļ								
Residential	2	8	Ç	00 0	000	80	00,0	0.00	0.00
Proposed Project	0.00	2 0	3 6	3 6	8	8	00.0	8	0.00
First Phase	200		3 6	800	8 8	00.0	0.00	0.00	0.00
Off-site	800	000	00,0	0.00	0.00	00.0	0.00	0,0 0	00.0
(CID)									
7 186. 14				_	L.				
	8	8	900	000	0.00	0.0	90.0	0.0	0,00
East Wetlands	3 8	88	000	800	00.0	0.00	00.0	0.00	0,0
Proposed Project	3 8	200	8	00'0	0.0	0.00	0.0	8	00.0
	8 6	00.0	000	0.00	0,00	00'0	0.00	00.0	0.00
CHARGO			-						
South Worlands								-	*
Doctor Design	000	0,00	0.0	0.00	0.0	0.00	000	2 6	966
Circle Disse	0.00	0.00	0.00	0.00	8	0.0	000	3 6	9.6
Off-site	0.00	0.00	000	0.00	000	0.00	9 6	3 6	
Subtotal	0.00	0.00	0.00	0.00	3	n.n.	200		
North Wetlands				8	5	9	000	00.0	
Proposed Project	9 6	3 6	88	8 8	9 6	000	000	8	0.00
First Phase	8 8	8 6	3 8	88	000	8	0,0	8	0.00
Off-site	86	00.0	000	00'0	0.00	00'0	0,00	8	0.00
E CONTROL	_		!						
Total Area - Ballona Wetlands			-						
Tributary	5	0	000	000	99		000	0.0	0.00
Proposed Project	3 6	800	000	0.00	0,0		0.00	0.0	0.00
Tist Thase	000	8	0.00	00'0	0.00	0.00	0.00	000	00.0
Total	0,00	00.0	0.00	00:00	0.0	4	00.0	50.0	0.00
								1	
Total Area - South of Ballona	_								
Charnel	-			Č	8	000	000	00.0	0.00
Proposed Project	<u> </u>	000	0.00	9 6	3 6		000	000	
First Phase	8 6	0.0	200	8 6	8 6	300	00.0	9	0.00
Off-site	3	3	2	-	-	-	-	-	

TABLE F-22b

## SUMMARY OF TOTAL PHOSPHORUS REMOVED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

	_	_,	_
	TP Loads	Subtotals	0.00
Space Space		0.24	0.00
Low Density Residential		0.38	0.00
Open High Density Low Density Water Residential Residential		0.00	0,00
Open H Water	efficients	0.80	0,00
Major Cadways V	Runoff Coeffic	0.80	0.00
ommercia		0.80	0.00
Industrial Commercial Commercial		08.0	0.00
Industrial		080	0.00
	Neme		
			Total

TABLE F-23a

SUMMARY OF TOTAL KJELDAHL NITROGEN RUNOFF LOADS (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

				Maior	i d	Ę.	Low Density	open	
i I	Industrial	Commercial Residential	Commercial	Roadways	Water	Density Residential	Residential	Space	
Tributary				Runoff Coefficients	cients				TKN Loads
	0.80	08.0	0.80	0.80	0.80	0.30	0.38	97.0	SUDICIDIS
Freshwater Marsh Riparian Corridor at Proposed									
Project Boundary		,		0	000	6	900	34.15	137.12
Proposed Project	8 9	0.00	102.97	9 8	9 6	000	8	17.4	476.13
First Phase	0.0	866	478 48	85	800	000	223.67	29,48	713.02
Off-site	67.0	000	1032.96	1.10	0.00	0.00	223,67	68.34	1326.27
Subcotal Rinarian Corridor at Lincoln							8	2	200
Proposed Project	8	0.00	00.0	0.00	9 6	0.00	8 6	2 5	223.59
First Phase	000	0.00	98.43	000	3 8	1000	57.09	000	175,59
Off-site	88	000	718.49	9 60	3 8	114.12	57,09	11.04	399.18
Subtotal	23.5	80.5							
Total Riparlan Corridor Tributary Area	0.29	00'0	1249.89	1.00	0.00	114.12	280.77	79.39	1725.45
Central Storm Drain	3	6	00	000	000	0.00	00:0	23.05	23.05
Proposed Project	000	86	20.00	8 6	000	218.78	000	8.13	478.31
First Phase	9 6	000	2 0 0	18 14	900	000	00.0	9.0	18,19
Off-site	90.05	0.0	251.40	18,14	0.00	218.78	000	31.18	519.55
Subtotal					L				
Jefferson Storm Drain	8	1.1	0.00	8	0.00	1.37	0.0	8	2.48
Proposed Froject	8 8	8	98.56	00.0	000	71.12	80.0	<del>-</del>	170.82
	315.85	0.0	77.90	30.62	800	35,08	169.54	9 (	969.37
Suprota	315.85	1,1	176.46	90,62	000	107.56	169.54	1.22	007.01
Lincoln Storm Drain - South		2	2	000	000	0:0	0.00	0.00	0.00
Proposed Project	3 8	88	000	0.00	8	0,00	0.00	0.15	0.15
First Phase   Oct 22	88	00.0	25,26	13.75	800	26,93	135,30	00'	201.26
Subtotal	0.00	0.00	25.26	13.75	9.0	26,93	136.30	0,15	Z07.40
Freshwater Wetlands		-	o o	2	5	- E	00.0	80	0.00
Proposed Project	0.0	8 6	90.0	3 4	3 6	88	0.18	45.51	14.24
First Phase	0.0	0.0	38	200	3 6	000	800	80.0	00'0
Off-site	3 8	86.6	3 6	0.62	000	00.0	0.18	13.44	14.24
Subtotal		0.00	20.0					_	
Total Area - Freshwater Marsh									
Tributary	2	1.1	102.97	0.00	8		0.00	57.20	162.65
Proposed Project	000	000	919.80	0.62	0.00	404.02	0.18	38.52	1363.24
TIST HASE	316.19		680.24	123.52	0.00		585,61	66.65 FX	7(3/.45
Total	316.19		1703.01	124.14	- B	-	200.78	125.68	90,0300
					_				

TABLE F-23a

SUMMARY OF TOTAL KJELDAHL NITROGEN RUNOFF LOADS (LBS.)

: :	Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open	
Tributary				Puroff Coefficients	Signer				TKN Loads
Name	0.80	0.80	08.0	0.80	0.80	0.80	0.38	0.24	Subtotals
e inchise de	<b>!</b>							_	
Offiler Alea D Nesidelina		000	000	000	90.0	0.00	0.00	0.00	0.00
Proposed Project	88	000	0.00	90.0	0.00	0.00	800	8 :	0.00
	0.0	000	0.00	18.76	000	00.0	0 0 0 0 0 0	31.23	50.00
Subtotal	An'a	20.0							
esidential			;	•		6	5	QU.U	0.00
Proposed Project	0.00	00.0	8 8	2 5	36	000	000	0.00	0.00
First Phase	9 8	90.0	8 6	18.76	88	000	0.00	31.23	20,00
Off-site Total	8 8	0.00	0.00	18.76	0.00	0.00	0.00	31.23	50.00
Ballona Wetlands						!			_
East Wetlands			2	6	5	000	00.0	00.0	0.00
reposed Project	500	86	88	000	0.0	000	0.00	0.00	0.00
First Phase Offsite	0.0	00.0	000	4.92	0.00	0.0	52.93	52.38	110.23
ubtotal	0.00	0.00	0.00	4.92	0.0		56.30	36.30	23121
South Wetlands		Č		5	8	000	000	8	00'0
Proposed Project	9 6	00:0	3 8	88	800	0.0	0.00	000	00'0
1   1   1   1   1   1   1   1   1   1	8 8	0.00	23.23	7.74	0.0	40.21	229.61	26.40	327.19
Subtotal	0.00	00.0	23.23	7.74		40,21	723.01	e e	01:190
North Wedands	6	6	8	60.0	00.0	00.0	0.00	0,00	0.00
Proposed Project	200	800	800	0.00	0.0	8.0	0.00	0.0	0.00
	00'0	00:00	42.44	12,97	00'0	9. 20.	9.50	73.25	133.20
Subtotal	0.00	00'0	42.44	12.97	8	0.04 40.0	8	(3,63	04.00
Total Area - Ballona Wetlands									
Tributary		90	-	2	000	900	00.0	00,0	0.00
Proposed Project	200	88	86	88	800	8	00.0	000	00.0
First Phase	300	88	65.66	25.64	0.00	40.25	292.05	152.02	575.62
Oll-Site Total	0.00	0.00	65.66	25.64	0.0	40.25	292.05	152.02	575.62
					ļ				
Total Area - South of Ballona Channel			·				- :		
Proposed Project	9.00	1.11	102,97	0.00	0.00		0.0	38.62	1353.24
First Phase	00:00	00.0	746 00	167 62	3 6	102.26		213,12	

TABLE F-23a

SUMMARY OF TOTAL KJELDAHL NITROGEN RUNOFF LOADS (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

: :	Industrial	Commercial/ Residential	Commercial	Major Roadways	Oper	High Density Residential	Low Density Residential	Open	
i nbutary Nome				Runoff Coeffi	cients				TKN Loads
	Ç.	0.80	0.80	0.80	0.80	0.0	6.38	0.24	Subtotals
	3		10000	150 54	000	507 6A	877.85	308.93	3948.93
Į.	316.19	1,11	100071	100.24	3				

TABLE F-23b

SUMMARY OF TOTAL KJELDAHL NITROGEN REMOVED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

Tobarten	Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Water	High Density   Residential	Low Density Residential	Open Space	
New				Runoff Coefficients	cients				TKN Loads
	0.80	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
Freshwater Marsh									
Riparian Corndor at Proposed		•							•
Proposed Project	00.0	0,00	0.00	0.00	0,00	0.00	00.00	0.00	0.00
First Phase	0.0	0.00	00'0	0.0	0.00	0.00	0.00	000	0:00
Off-site	0.0	0.00	0.00	8.6	960	0.00	00.0	88	00.0
Subfotaí	0.00	0.00	0.00	0.00	8	0.00	On'n	20'0	200
Riparian Corridor at Lincoln	Ş	0	6	0	00.0	900	0.00	00.0	00.0
Proposed Project	3 8	8 8	000	000	000	800	0.00	0.00	0.00
	000	8	8	0.0	00'0	000	0.0	0.00	0.00
Subtotal	0.0	0.00	0.00	00'0	0.00	0.00	0.00	0.00	0.00
Total Riparian Corridor Tributary						ć	6	000	000
Area	0.00	0.00	0.00	0.00	00.0	0.00	0.00	0,0	00.0
Central Storm Drain	8	ć	6	00.0	000	000	000	00.0	0.00
Proposed Project	38	00.0	000	8	0,0	0.00	90.0	0.00	0.00
Off-site (Lincoln Bivd, Bioswales)	8 6	00'0	0.00	0.0	0.00	0.00	0.00	0.00	0.00
Subtotal	0.00	0,00	0.00	0,00	0.00	0.00	00.0	0.00	00.0
Jefferson Storm Drain					3	8		8	5
Proposed Project	0.00	0.00	0.00	0.00	3 6	3 6	3 6	3 8	20.0
First Phase	800	0.00	0.00	0.00	3 6	966	8 8	3 6	000
Off-site	0.00	0.00	9 6	200	9 6	800	3 5	8 8	900
Subtotal	0.00	000	0,0	0,00	3	90:0		3	2
Lincoln Storm Drain - South	•	8	8	6	2	8	000	000	00:0
Proposed Project	3 6	3 8	88	000	000	0.00	00:0	800	00.0
Off-sha (CDS Cait)	000	000	6.94	0.0	0.00	00'0	0.00	0.00	-6.94
Subtotal	0.00	0.00	-6.91	0.00	9,0	0.00	0.00	0.00	-6,9 <del>1</del>
Freshwater Wetlands			į	Ş		ć	9	5	ç
Proposed Project	0.00	00.0	0.0	3 1	200	0.00	3 8	3 8	2 2
First Phase	8 5	00.0	000	8 8	9 6	900	38	3 5	86
Offsite	8 8	3 6	200	3 6	200	000	889	0.00	00.0
Subtota	3	00'0	00.0						
Total Area - Freshwater Marsh									
Proposed Project	0.0	0.00	0.00	00'0	0.00	0.00	0.0	000	0.00
First Phase	0.00	0.00	0.00	000	8	0.00	00:0	88	000
Off-site	0.00	00.0	0.00	8	8	0.00	0 6	88	000
Total	0.00	0.00	0.00	0.00	89.58 89.58	0.00	0.00	3	00.0

TABLE F-23b

SUMMARY OF TOTAL KJELDAHL NYTROGEN REMOVED (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

Name	Industrial	Commercia!/ Residential	Commercial	Major Roedways	Open Water	High Density Residential	Low Density Residential	Open Space	
DI III				Runoff Coefficients	cients				TKN Loads
	08.0	0.80	08.0	0.80	0.80	0,80	0,38	0,24	Subtotals
Former Area B Residential			2	000	00.0	000	00'0	0.00	00'0
Proposed Project	3 8	2 6	8 8	86	8 8	86	800	0.00	0.00
First Phase	3 6	8.5	8 6	8 6	8 6	900	000	000	0.00
Off-site	88	00.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00
Total Area - Former Area B									
Residential						,	;		
Proposed Project	0.00	0.00	0.00	0.00	0.00	00'0	86	8 6	9.0
First Phase	0.00	0.00	0.00	0.00	8	000	0.00	9 6	000
Off-site	88	8 6	0000	00.0	8 8	8 8	3 <b>8</b>	0.00	0.00
lotal									
Dallana Wastanda									
East Wetlands	0.00	000	0.0	8.0	000	0.00	0.00	000	00.0
Proposed Project	0.00	00.0	00'0	8	8	00.0	00.0	0.00	8.9
First Phase	000	0.0	0.00	8	0.00	0.0	000	0.0	3 6
Off-site	900	0.0	9.00	30.00	3	00.0	20.0	2	22.5
Subtotal									
South Wetlands	2	6	9	2	9	000	0.00	0.00	0.00
Proposed Project	88	000	00.0	8.	0.00	0.00	00'0	8	00'0
000 min 100 mi	00.0	0.00	0.00	00'0	0.00	0.00	0.00	8	0.0
Subtotal	0.00	00'0	0.00	000	0.0	0.00	0.00	8	0.00
North Wetlands				9	8	5	5	5	000
Proposed Project	3 6	900	866	86	3 8	38	000	000	0.00
First Phase	3 6	88	38		88	88	000	8	0.00
	0.00	8 8	000	0.0	0.00	00,0	0.00	0,00	0.00
Total Area - Ballona Wetlands									
Described Project	0.00	00.0	0.00	8	0.00	00'0	00'0	0.00	0.00
First Phase	000	0.0	0.00	90.0	8.0	0.00	000	0.0	0.00
Official	8	00.0	0.00	0.0	000	0.00	8	0.0	00.0
Total	99	0.00	0.00	9.00	8	0.00	0.00	20.0	00.00
Total Area - South of Ballons								_	
Proposed Project	00.0	0,00	0.00	000	0.00	0.00	0.00	900	0.00
	2	000	0000	0.00	00.0	8	00.00	8	00.0
Off-site	000	9.0	0.00	00'0	9.0	0.0	0.00	0.00	000

#### TABLE F-23b

# SUMMARY OF TOTAL KJELDAHL NITROGEN REMOVED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

Tibulean	Industria	Industrial Commercial Commercial	Commercial	Major Roadways	Vater	High Density Residential	Major Open High Density Low Density Open Roadways Water Residential Residential Space	Open	
				Runoff Coefficients	dents				TKN Loads
!	0.00	0.80	0.80	08.0	0.80	0.80	0.38	0.24	Subtotals
Total	00'0	0.00	00'0	00'0	0.00	0.00	0.00	0.00	0.00

TABLE F-24a

SUMMARY OF OIL AND GREASE RUNOFF LOADS (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

	hdustrial	Commercial	Commercial	Major	Open	High Density	Low Density	Open	
Tributary		(manuaciona)		Duraff Coefficients	Tiente Tiente	Residential			O&G Loads
Name	08.0	080	08.0	080	0.80	0.80	0.38	0.24	Subtotals
	30.5	20.2	22.2						
Freshwater Marsh									
Project Boundary									
Distriction of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co	000	0.0	108.42	0.00	0.00	00.0	00.0	0.00	108.42
First Phase	000	0.00	496.40	0.00	00,0	800	800	000	496.40
Off-site	0.22	0.00	482.89	2.95	000	88	160.67	8 8	646.72
Subtotal	0.22	0.00	1087.71	2.95	3	97.0	100.07	3.5	14.0
Riparian Corridor at Lincoln	8		ç	5	8	90	000	00.0	0.00
Proposed Project	3 8	200	18.50	8 8	80	81.97	000	00'0	185,52
	88	0.00	124.78	8	0.00	8.9	41,01	00'0	165,79
Subfotal	0.00	0.00	228,42	0.00	0.00	81.97	41.01	0.00 0.00	351.40
Total Riparian Corridor Tributary	,	90.0	4346 49	2 95	0.00	81.97	201.68	00'0	1602.95
Area Onether Storm Death	77.5	8	21.02						
Central Storm Drawn Proposed Project	00:0	0.00	0.00	0,00	0.00	00'0	800	0.0	0.00
First Phase	0.00	00'0	264.72	0.00	0.00	157,16	8	0.0	421.88
Off-site	<u>8</u>	00.00	0.00	53.41	0.00	00'0	86.	0.00	53.44
Subtotal	0.0	0.00	264.72	53.41	6. 6.	157.15	0.00	90.0	419.32
Jefferson Storm Drain		- 3	8	6	9	ő	0	80	2.03
Proposed Project	3 6	<u> </u>	0.00 103.78	866	800	20.5	000	000	154.87
	99.50	86	20.00	266.83	8 8	25.20	121.78	8	730.94
O Services	235.09	1.04	185.81	266.83	000	77.26	121.78	0.00	887.82
Lincoln Storm Drain - South									ć
Proposed Project	0.00	0.00	0.0	88	8 8	8 8	86	3 6	200
First Phase	0.00	9.0	3 6	3 6	9 6	35.01	45 49	8 6	183.64
Off-Site Solution	0.00	800	26.60	6,04	8 8	19.35	97.19	0,00	183.64
Freshwater Wetlands						. :		,	,
Proposed Project	0.0 -	000	0.00	8 9	9 6	0.00	9 5	3 3	2 6
First Phase	000	0.00	000	50.5	3 5	200	2 6	3 8	60.0
Off-site	3 6	000	8 8	1.83	00.0	0.0	0.13	0,00	1.97
Total Area - Freshwater Marsh								_	
Tributary	6	-	108.43	8	9	8	000	0.00	110.44
Proposed Project	3 6	+ C	968.55	283	000	290.22	0.13	000	1260.73
	235.34	800	716.30	363.69	00	<b>4</b> 2	420.66	8	1780.53
Total	235.34	1.04	1793.27	365,52	0.00	335,74	420.79	0.00	3151.70

TABLE F-24a

SUMMARY OF OIL AND GREASE RUNOFF LOADS (LBS.)

	ы	PLAYA VISTA - FIRST PHASE PROJECT	ra - FIRS	T PHASE	PRO	ECT			
Tributary	Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Water	High Density Residential	Law Density Residential	Open Space	
C C C C C C C C C C C C C C C C C C C				Runoff Coeff	cients				O&G Loads
5	08.0	0.60	0.80	0.80   0.80	0.80	08.0	0.38	0.24	Subtotals
Former Area B Residentia									
Proposed Project	0.00	00'0	0.00	00.0	0.00	0.00	0.00	0.00	0.00
First Phase	0.00	0.00	0,0	0.00	80.0	0.00	0.00	0.0	0.00
Off-site	0.00	00 B	0.0 0.0	55.24 55.24	8 8	0.00	0.00	0.00	55.24
Total Area - Former Area B									
Residential	2	5	9	0.00	000	000	000	00.0	00.00
Proposed Project	88	88	8 8	0.00	0.0	8	9.0	90,0	0.00
Official	8.0	00.0	90.0	55.24	0.00	0.0	8.6	88	55.24
Total	0.00	0.0	96.0	55,24	0.00	00.00	On'n	7.00	19:00
Ballona Wetlands									<u>.</u>
East Wetlands	000	900	00'0	80	00.0	0.00	00.0	00'0	0,00
First Phase	0.00	00:0	0.00	00'0	0.00	0.00	0.00	00'0	000
Off-site	00'0	00'0	0.00	14.48	86	86	38.02	0.00	52.51
Subtotal	0.00	0.00	0.00	14.48	0.00	00.0	38,82	0,0	02.01
South Wetlands		5	6	000	0	0.00	900	000	0.00
Proposed Project	3 8	3 6	8 8	200		800	000	8	000
First Phase	38	3 8	24.46	22.80	0.0	28.B8	164.94	0.00	241.08
Subtotal	0.0	00.0	24.45	22.80	0.00	28.88	154.94	0.00	241.08
North Wellands						į	-	4	2
Proposed Project	8.6	D 6	88	8.8	8 8	8 6	8 8	9 6	00.0
Tringt Theorem	3 5	8 8	2,4	38.20	88	88	6,83	0.0	89,74
Subtotal	000	000	44.69	38.20	0,00	0.03	6.83	0.00	89.74
Total Area - Ballona Wetlands	:								
Tributary	9	000	0.00	000	00'0	0.0	0.00	0.00	0.00
Tiret Disease	000	0.00	00.0	00.0	0.00	0.00	00'0	0,00	00'0
Off-site	0.0	0.00	41.69	75.49	0.00	28.91	209.79	0.00	383,33
Total	0.00	0.00	69.14	75.49	9.8	28,91	209.79	0.00	383.33
Total Area - South of Ballona									
Channel Project	00.0	1.04	108.42	0.00	0.00	0.98	0.00	0.00	110.44
Figst Phase	0.0	0,0	968.55	1.83	0.0	290.22	0.13	0.00	1260.73
Off-site	235,34	0.00	785,44	494.42	0.0	73.45	630,45	00'0	OU:8122
=									

TABLE F-24a

SUMMARY OF OIL AND GREASE RUNOFF LOADS (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

Tributa	Industrial	Commercial/ Residential	Commercial Commercial Roadways Water	Major. Roadways	Open	High Density Residential	Low Density Open Residential Space	Open	
Name				Runoff Coefficients	cients				O&G Loads
	0.80	0.80	0.80	08.0	0.30	0.80	0.38	0.24	Subtotals
Total	235.34	1.04	1862.42	496.25 0.00	0.00	364,65	630.58	00'0	3590.27

TABLE F-24b

S)	UMMA	RY OF OI AYA VIST	AARY OF OIL AND GREASE REMOVED PLAYA VISTA - FIRST PHASE PROJECT	REASE R I PHASE	FROJ	SUMMARY OF OIL AND GREASE REMOVED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT			
Tributary	ndustria	Commercial	Commercial	Major Roadways	Open Water	High Density Low Density Residential Residential	Low Density Residential	Open	
Name	OK C	8	180	Runoff Coefficients	Reients 6.80	0.80	0.38	0.24	OG Loads Subtotals
Freshwater Marsh Ribarian Corridor at Proposed									
Project Boundary Proposed Project	0.00	0.0	0.00	0.00	0.0	0.00	0:00	0.00	0.00
First Phase Off-site	00.0	888	0.00	0.00	0.00	8.9	0.00	000	000
Subtotal	0.00	Bio	0.00	0.00	0.0	0.00	000	00.0	00'0
Riparian Corridor at Lincoln Proposed Project	0.00	00.0	0.00	00'0	00.0	0.00	00:00	00'0	0.00
First Phase	0.00	0 0 0 0	0.00	0000	0.00	0000	88	8 8	00.0
Subtotal	999	000	90'0	0.0	0.0	0.00	00'0	0.00	0.00
Total Riparian Corridor Tributary								3	
Area	9.60	0.00	00:0	0.00	00.0	0.00	0.00	0.00	0.00
Central Storm Drain Proposed Project	0.00	00'0	800	0.00	8	000	0.00	00.0	00'0
THE ST TOTAL	0.0	0.0	00.0	0.0	0.0	00.0	00.0	0.00	00'0
Off-site (Jefferson Bioswales)	0.00	0.00	00'0	-7.19	8	0.00	0.00	8.0	-7.19
Subtotal	0.00	0.00	0.00	-7.19	8.0	00.0	9.00	0.00	-7.19
Jefferson Storm Drain	5	0	0	8	6	8	6	9	000
Pirst Phase	900	300	00.0	88	800	38	8 8	000	0.00
Off-site	0.00	0.00	0.00	000	00:0	900	00.0	0.00	0.00
Subtotal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Lincoln Storm Drain - South	900	0	ć	8	5	8	5	Ş	000
First Dhase	3 8	000	260	8 8	800	88	8 6	000	000
Off-site (CDS Unit)	000	00'0	0.00	0.00	0.0	800	8	0.00	0.00
Subtotal	0.00	0.00	0.00	0.00	0.00	00'0	0.00	000	0.00
Freshwater Wetlands	;					,		í	*
Proposed Project	00.0	90.0	98'0	8.0	3 6	90.6	9.6	3 6	900
First Phase	8 8	8 8	9 6	8 8	8 8	8 8	3 5	8 8	8 6
Subtotal	800	000	9 6	900	00.0	8 8	900	0.00	0.0
Total Area - Freshwater Marsh									
Tributary			ç					ć	•
Proposed Project	88	8 8	8 8	8 8	8 8	000	0.00	88	8 8
	3 8	8 8	3 8	000	8	800	3 6	3 6	8 6
100 L	800	000	90	000	0.0	0.0	0.0	0.00	00'0

TABLE F-24b

SUMMARY OF OIL AND GREASE REMOVED (LBS.)

2	TI BE	AYA VIST	PLAYA VISTA - FIRST PHASE PROJECT	r PHASE	PRO	SUMMAKT OF OUL AND GREASE KEMOYED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT	_		
Tributar	industriaí	Industrial (Residential	Commercial	Major Roadways	Open Water	High Density Low Density Residential Residential	Low Density Residential	Open Space	: : ! :
TARY OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERS				Runoff Coefficients	ficients			Ī	OG Loads
	08.0	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
Former Area B Residential									
Proposed Project	8 8	8.6	0.0 0.0	8.6	8 8	8 6	86	86	00.0
First Phase	8 8	8 6	8 8	20.0	3 6	3 8	3 6	000	900
Subtotal	88	900	8 8	20.0	0.00	0.0	800	00.0	000
Total Area - Former Area B									
Residential						,			;
Proposed Project	8 6	0.00	0.00	8 6	8	0 0	000	8 6	00.0
First Phase Offere	8 8	90.0	0,0	9 6	2 2	8 8	9 6	2 6	9 6
Total	0.0	96	0.00	800	0.00	000	0.00	900	00.0
Ballona Wetlands									
East Wetlands	0.00	00'0	0.00	00.0	0.00	00.0	0.00	80,0	00.0
Proposed Project	0.00	0.00	0.00	0.00	0.00	00'0	0.00	00.0	0.00
First Phase	8 1	8.5	0.00	000	0.00	8.6	0.00	8 6	0.00
	8	80.0	0.00	0,00	0.00	000	0.00	8.0	0.00
Subjection South Westernes								T	
Proposed Project	0,00	000	00.0	0.00	0.00	000	0.00	00.0	0.00
Pirst Press	00.0	00.0	00.0	00'0	0.00	0.00	0.00	800	0.00
Off-eite	00'0	80.0	0.0	0,00	0.00	0.00	0.00	0.00	0.00
Subtotal	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.00	0.00
North Wetlands									į
Proposed Project	0.00	0.0	000	0.00	0.00	86	0.0	8 6	0.00
	8 8	3 6	3 5	0.00	3 6	3 6	000	3 5	96
Subtotal	00.0	0.0	0.00	0.00	0.00	0.0	0.00	0.0	0.0
Total Area - Ballona Wetlands									
Tributary Proposed Project	00.0	00.00	0.00	0.00	000	00.0	0.00	000	000
First Phase	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Off-site	8 8	8 8	0.0 0.0	00.0	800	88	000	0.6	86
lecal	9	0.00	0.00	0.00	0,00	0,00	00'0	00.0	0.00
Total Area - South of Ballona									
	5	5	6	5	000	5	0	9	0
Trapased Froject		8 6	8 6	3 5	3 6	3 5	86	3 8	9 6
Off-site	88	80.0	0.00		000	0.00	0,00	800	0.0

TABLE F-24b

SUMMARY OF OIL AND GREASE REMOVED (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

Tributary	Industrial	dustrial (Residential	Commercial	Major Roadways	Open	High Density Residential	tal Commercial Roadways Water Residential Residential Space	Open	
•E5Z				Runoff Coefficients	ficients				spect 50
	0.80	08'0	0.80	08.0	08'0	0.30	0.38	0.24	Subtotals
Total	00.0	0.00	00'0	00'0	00.0	00'0	00'0	00.0	0.00

TABLE F-25a

SUMMARY OF TOTAL COPPER RUNOFF LOADS (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

	Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Water	High Density	Low Density Residential	Open	
Tributary				,		Kesidentiai			TOT
Name				Runoff Coefficients	fildents	,	300		Color to the
	08.0	0.80	0.80	0.80	0,80	0.80	0.38	0.24	Subfotals
Freshwater Marsh Bloadan Coridor at Proposed									
Project Boundary									<u> </u>
Proposed Project	0.00	0.0	 12. j	9.5	0.00	8.8	00.0	6.9	1.46
First Phase	0.0	0.00	5.27	0.00	0.0	0.00	9.0	\$ t	ان دور
Off-site	000	8.6	5.12 11.54	0.03 6.63	8 8	9.6	75.	0.62	13.57
Riparian Corridor at Lincoln									
Proposed Project	0.0	000	800	0.00	8	0,00	0.00	0.00	9.00
First Phase	00'0	00.0	1.10	0.00	800	0.70	0.00	0.10	1.90
Office ite	00.0	00.0	1.32	8 8	00.0	0.0	200 200 200 200 200 200 200 200 200 200	0.00	3.57
Subtotal	0.00	00.0	74.77	30.5			2		
Total Riparian Corridor Inbutary Area	0.00	0.00	13.96	0.03	0.00	0.70	1.72	0.72	17.14
Central Storm Drain			;				0	č	
Proposed Project	0.0	86	000	96	3 6	3 6	38	40	4 22
First Phase	0.00	8 8	0,0	000	3 6	† 6	38	66	0.59
Off-site	3 8	00.0		80.00	000	45	00.0	0.28	5,02
Subtotal Inference Sporm Drain							-	į.	
Proposed Project	000	10.0	00.0	00:0	0,00	10.0	0.00	0.0	0.02
First Dhase	000	00:0	1.10	00.0	0.00	44.0	0.00	0,01	1,55
Official	3.85	00.0	0.87	2,92	8.	0.22	2	0.0	8.90
Subtotal	3.85	0.01	1.97	2.62	0.0	99.0	104	0.01	10.46
Lincoln Storm Drain - South		·						;	3
Proposed Project	0.00	0.00	0.00	00.0	00.0	000	000	0.00	00.0
First Phase	8 8	0.00	800	0.00	9 6	0.00	0.00	3 6	2.00
Official	8 6	D 6	22.00	4 4	8 8	0.17	0.83	0.00	1.72
Freshwater Wedends							-		
Proposed Project	0.00	0.00	0.00	000	0.6	0.00	0.00	80.5	0.00
First Phase	0.0	0.00	00.0	0.02	00.0	0.00	000	2.6	7 0
Off-site	0.0	0.00	0.00	8 6	20.6	9 6	900	3 5	2000
Subtotal	0.00	00:0	00.00	0.02	0.0	30.0	35.0	71,0	
Total Area - Freshwater Marsh									
Thousany Proposed Project	000	0.0	1.15	00:0	0.0	0.01	00:00	0.52	1.69
First Phase	000	00.0	10.27	0.02	0.00	2.48	0.00	0.35	13.12
Off-site	3.85	00.0	7.60	89. 89.	0.0	0.38	3.59	0.27	19.67
Total	3.85	0.01	19.02	4.00	0.00	2.86	3.59	1.14	34.49

TABLE F-25a

SUMMARY OF TOTAL COPPER RUNOFF LOADS (LBS.)

	•								
	Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Water	High Density Residential	cow Density Residential	Open	
10 mm 2				Runoff Coe	fficients				TCu Loads
	0.80	0.80	0.80	0.80 0.80	0.80	0.80	0.38	0.24	Subtotals
To the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th							- 12-11		
Proposed Project	8	00.0	000	00:0	0.00	0.00	0.00	0.00	00'0
First Phase	0.0	0,00	0.00	0.00	00.0	0.00	0.00	0,00	0.00
Off-site Sufficial	00.0	000	0.00	0.60	000	00.0	0.00	0.28 0.28	98.0 98.0
Total Area - Former Area B									
Residential			ć	Š	6	ć	2	200	000
Proposed Project	0.00	200	86°0	000	900	000	38	000	600
Official	0.00	000	000	702.13	0.00	0.00	0.00	7,158.48	68.0
Total	0.00	0.00	0.00	702.13	900	0.00	0.00	7158.48	0,89
Ballona Wetlands								~	
Proposed Project	000	80	00'0	00'0	00'0	00.0	00.0	00.0	0.00
First Phase	0.00	00.0	0.00	00.0	0.00	0.0	0.00	0.00	00.0
Off-site	8,0	00.0	00.0	0.16	0.0	80	0.32	0.48	96'0
Subtotal	00'0	0.00	0.00	0.16	00.0	0.00	0.32	U.48	0.36
South Wetlands	8	9	Ö	6	5	5	2	9	00:0
Troposed Tropect	3 8	00.0	3 6	8 8	3 6	3 8	000	88	00.0
	38	80.0	0.26	0.25	0.0	123	1.4.1	0.24	2.40
Subtotal	0.00	0.00	0.26	0.25	000	0.25	1.41	0.24	2.40
North Wetlands				***				0	
Proposed Project	8 8	8 6	9 6	3 6	9 0	200	800	000	00.0
	88	86	0.47	0.42	8	0.0	90:0	29.0	1.62
Subtotal	0.0	0,00	75.0	0.42	0.00	00.0	90'0	29.0	1,62
Total Area - Ballona Wetlands									
Tributary									
Proposed Project	8.0	00'0	8	0.0	00'0	000	0.0	0.0	0.00
First Phase	8	0.00	8 6	0.0	9.6	000	0.00	5.5	0.00
Off-site Total	88	000	0.73 0.73	0.83	9 6	0.25	5.7°	5.5 88.1	6 4. 4.
Total Area - South of Ballona									
Channel Proposed Project	0.00	0.01	1.15	0.00	0.0	0.01	00.0	0.52	1.69
First Phase	0.00	0.00	10.27	0.02	0.0	2. 84.	0,00	0.35	13,12
Off-site	3.85	0.00	8.33	706,94	0.8	0.63	5.38	7160.13	25,54

TABLE F-25a

SUMMARY OF TOTAL COPPER RUNOFFLOADS (LBS.)
PLAYA VISTA · FIRST PHASE PROJECT

Tribuland	Industrial	Commercial/ Residential	Commercial	Major Open Roadways Water	Open Water	High Density Residential	Low Density Residential	Open	
News				Runoff Coefficients	ficients				TCulloads
!	0.80	080	08.0	08.0	0.90	08.0	0.38	0.24	Subtotals
). 	3.85	0.01	19.76	706.96	0.00	3.11	5.38	7151.00	40.35

TABLE F-25b

SUMMARY OF TOTAL COPPER LOADS REMOVED (LBS.)

Tributan	Industrial	Commercial Residential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open	
Name				Runoff Coefficients	ficients				TCu Loads
	0.80	0.80	0.80	0.80	0.80	08'0	C.38	0.24	Subtotals
Freshwater Marsh Riparian Corridor at Proposed									
Project Boundary						;	;		
Proposed Project	86	0.00	8 6	0.0	9 6	8 8	88	8 8	00.0
First Phase Off-site	3 8	000	0.00	000	88	800	800	800	000
Subtotal	0.00	00:0	0.00	0.00	0.00	0.00	0.00	0.00	00.0
Riparian Corridor at Lincoln	2	0	6	9	000	000	000	8	0.00
Tick Phase	200	000	000	000	000	00'0	0.00	8	0.00
Off-site	0.00	0.00	0.00	8	0.0	0.00	0.00	0.00	00'0
Subtotal	0.00	0.00	0.00	0.00	00'0	0,00	0.00	8	0.00
Total Riparian Corridor Iributary	000	90.0	000	000	000	000	0.00	0.00	0.00
Area	00.0	20,0	20.0	200					
Central Storm Drain	5	9	000	6	000	000	000	0.00	00.0
	000	88	8 6	86	2	000	8	00.0	00.0
FIRST MIGSE   Different Ricewales)	9 6	86	86	0.42	200	00'0	00.0	0.00	0.42
Subtotal	0.00	0.00	0.0	0,42	00'0	0.00	00'0	0.00	-0.42
Jefferson Storm Orain									
Proposed Project	8.0	8.0	0.00	8 6	0.00	0.00	0.00	0.0	00.0
First Phase	8	00.0	0.00	96.0	00.0	0.00	88	3 6	5.6
Official	8 6	00.6	00.0	8 6	000	9 6	000	88	0.00
Lincoln Storm Drain . South								-	
Proposed Project	00'0	0.00	00.00	0.00	0.00	0.0	00:00	8	0.00
First Phase	800	0.00	00.0	0.00	0.00	0,0	0.00	8	0.00
Off-site (CDS Unit)	866	88	0.17	-0.26	0.0	8 6	8 8	900	4 4 5 4
Subtotal	26.00	00'0	į	20,50		2000		3	7
Freshwater Wetlands	ć	Š	2	5	8	9	00 0	000	0.00
Piopos de Project	3 3	3 6	8 6	88	3 6	86		800	000
First Frase	3 6	8 6	88	3 6	8 8	88	9 0	800	0.00
Subtotal	00.0	0.00	0,00	00.0	00.0	0.00	0.00	00'0	000
Total Area - Freshwater Marsh									
Tributary		;	3	4		6	6	ě	Š
Proposed Project	8 8	800	8 6	0.0	3 8	3 8	200	200	90.0
TIST TIESS	3 8	3 6	88	8 6	3 8	38	800	000	00.0
	000	0.00	00.0	0.0	8.0	0.00	0.00	0.00	00.0

TABLE F-25b

SUMMARY OF TOTAL COPPER LOADS REMOVED (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

Tributen	Industrial	Commercial Residential	Commercial	Major Roadways	Open	High Density Low Density Residential Residential	Low Density Residential	Open	
enex.				Runoff Coefficients	ficients				TCu Loads
	0.80	0.80	0.80	0.80	0.80	0.80	0,38	0.24	Subfotals
Former Area B Residential	i i	000	6	00.0	90.0	000	00.0	00.0	0.00
Proposed Project	9 6	3 5	8 6	8 8	000	000	0.00	000	0.00
	30	000	00'0	800	000	800	0.00	0.00	0.00
Subtotal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Area - Former Area 8									·-
Residential	000	00.0	00'0	00.0	0.00	0.0	00:00	0.00	0.00
First Phase	0.00	800	0,00	00.0	0.00	0.00	0.00	0.00	00'0
Off-site	0,00	0.00	0.00	0,00	0.00	00'0	00.0	0.00	00.0
Total	0.00	0.00	0.00	0.00	0.00	00'0	06,0	0.00	0.00
Ballona Wetlands	<b></b>		!		;		6	6	e e
East Wetlands	8.0	8 8	88	0.00	9 6	8 8	200	3 8	90.0
Proposed Project	9 6	8 8	88	000	8 6	88	800	000	0.00
First Phase	3 6	3 8	8 6	00.0	00.0	00.6	6,8	000	0.00
Subtotal									
South Wetlands					-		ç		ò
Proposed Project	0.6	0.0	8 8	00.0	8 8	88	9 6	3 5	96.6
First Phase	2 6	8 6	000	38	9 6	3 6	86	3 2	86
Officite	0 0	000	800	8.0	9 0	0.0	000	6.6	00:0
North Wetlands								_	
Proposed Project	0.00	000	0.00	0.0	0.00	0 0 0	8.8	0.0	00.0
First Phase	0.00	000	00:0	0.0	000	0,0	8 8	3 6	00.0
Official	0.0	88	00.0	000	3 6	800	8 6	00.0	60.0
Total Area - Ballona Wetlands									
Proposed Project	8	000	0.00	0.0	0.00	0.00	00.0	0.00	00'0
First Phase	8	00.0	00.0	0.00	0.00	0.00	0.00	8	0.00
Off-site	0.00	0.00	00'0	00'0	0.0	0.0	0.0	8 8	0.00
Total	9.00	0.00	00:00	0.00	0.0	0.00	00'0	3	0.00
Total Area - South of Ballona Cheppel									
Proposed Project	00.0	0.00	0.0	0.00	0.00	0.00	0.00	00.0	00.00
First Ohans	000	00.00	00.0	000	8	00.00	0.00	0.00	0.00
Off-site	00.0	0.0	0.0	0.00	8	00.00	00'0	8.0	0.00

TABLE F-25b

# SUMMARY OF TOTAL COPPER LOADS REMOVED (LBS.) PLAXA VISTA - FIRST PHASE PROJECT

Tributary Name	Industrial	Commercial /Residential	Commercial   Commercial     Residential	Major Oper Roadways Wate Runoff Coefficients	Open Water ficients	High Density Low Density Residential Residential	Open High Density Low Density Open Water Residential Residential Space ficients	Open	TCu Loads
	0.80	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
Total	00'0	0.00	00'0	00.0	0.00	000	00.0	0.00	0.00

TABLE F-26a

SUMMARY OF TOTAL LEAD RUNOFF LOADS (LBS.) PLAYA VISTA · FIRST PHASE PROJECT

Tributary   Tributary   Project Boundary   Projec										
Name         0.80         0.80         0.80           water Marsh         0.00         0.00         0.69           Scoundary         0.00         0.00         3.15           Sso         0.00         0.00         3.15           Sso         0.00         0.00         3.15           Sso         0.00         0.00         3.15           1 Corridor at Lincoln         0.00         0.00         3.07           1 Corridor at Lincoln         0.00         0.00         0.00           2 Storm Drain         0.00         0.00         0.00           3 Storm Corridor Tributary         0.00         0.00         0.00           3 Storm Drain         0.00         0.00         0.00           3 Storm Corridor Tributary         0.00         0.00         0.00           3 Storm Corridor Tributary         0.00         0.00         0.00           3 Storm Drain - South         0.00         0.00         0.00           4 Project			Commercial/ Residential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open Space	
Corridor at Proposed   Corridor at Proposed   Corridor at Proposed   Corridor at Proposed   Corridor at Lincoln   Corridor   Corridor   Corridor at Lincoln   Corridor   Corri	PE SZ				Runoff Coefficients	flicients				TPb Loads
Corridor at Proposed   Corridor at Proposed   Corridor at Proposed   Corridor at Proposed   Corridor at Lincoln   Corridor   Corridor at Lincoln   Corridor   Corri		0.80	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
Corridor at Proposed   Control   C	Marsh									
Boundary  d Project  O.00  O.0	dor at Proposed									
## Project 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.					-					
Corridor at Lincoln		0.00	0.00	69.0	0.0	0.00	0.00	0.00	0.11	0.80
Corridor at Lincoln	_	0.00	0.00	3.15	0.00	0.00	0.00	0.00	20.0	3.17
Corridor at Lincoln	_	000	80.0	3.07	0.0	0.0	80.0	0,40	0.10	3.57
Corridor at Lincoln   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00		0.00	0.00	6.91	00'0	00'0	0.00	0.40	0.22	7.54
A Project 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	idor at Lincoln									
1		0.00	0.00	00:0	00:0	0.00	0.00	00:0	00.0	0.00
0.00 0.00 0.00	_	000	800	99'0	00.0	0,00	0.21	80.0	- - - -	05'0
Storm Drain   0.00   0.00   0.00	_	00.0	00'0	0.79	00.0	0.00	00'0	0,10	00.0	68'0
Storm Drain   0.00   0.00   0.00	_	0.00	0.00	1.45	00'0	0.00	0.21	0,10	0,04	1.79
Storm Drain  d Project  o.00  d Project  o.00  o	Corridor Tributary									
Storm Drain 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		0.00	0.00	8.36	0,00	0.00	0.21	0.50	0.26	9,33
Step   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	sin sin									
1		0.00	00'0	0.00	0.00	0.0	00.00	0.0	80.0	0.08
C000 0.00 0.00	_	00.0	00.0	1.68	0.00	0.00	0.39	0.00	60,03	2.10
1000   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00		0.00	8,0	0.00	90.0	0,0	00'0	00'0	00'0	90'0
torm Drain 0.00 0.01  2.51 0.00  2.51 0.00  colect 0.00 0.00  Wetlands 0.00 0.00  Wetlands 0.00 0.00  Wetlands 0.00 0.00  Freshwater Marsh 0.00 0.00  2.51 0.00  3.51 0.00  3.51 0.00  3.51 0.00		0.00	0.00	1.58	0.06	0.00	0.39	0.00	0,10	2.24
roject 0.00 0.05  1.51 0.00  2.51 0.00  2.51 0.00  2.51 0.00  2.51 0.00  2.50  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00  0.00 0.00	_									
## Drain - South		0.0	, 0 0	00.0	0.00	0.0	000	0,00	000	0.01
2.51 0.00  wm Drain - South 0.00 0.00  Wetlands 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00  obsc: 0.00 0.00		00.0	00'0	0.66	0.00	0.0 0	0.13	000	00'0	0.79
roject 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		2.51	00.0	0.52	0.30	8	90.0	0.30	000	3,70
rim Drain - South 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	!	2.51	0.03	1.18	0.30	0.00	9.19	0.30	10.0	4.50
Folect 0.00 0.00  Wetlands 0.00 0.00  Tojec: 0.00 0.00  Tojec: 0.00 0.00  Toject 0.00 0.00  Toject 0.00 0.00  Toject 0.00 0.00  Toject 0.00 0.00	rain - South	6	(	0	į (		ć	,		
Wetlands  rojec:  Company  Com		9 6	8.6	200	000	3 6	966	000	3 6	00.0
Wetlands  Voice: 0.00 0.00  rojec: 0.00 0.00  0.00 0.00  0.00 0.00  Freshwater Marsh 0.00 0.00  1.0ject 0.00 0.00  2.51 0.00			9 6	3 6	200	3 8	9 6	000	3 6	5 7
Wetlands rojec: 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 roject 0.00 0.00 0.00 0.00		2 2	88	- <b>(</b> -	200	300	900	4 4 4	88	) C
roject 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	<u> </u>									
0.00 6.00 0.00 0.00 0.00 0.00 0.00 0.00		0.00	00:0	0.00	0.00	0.00	00.00	0.00	00:0	00.0
0.00 0.00  Freshwater Marsh  1000 0.00  1000 0.00  2.51 0.00	-	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.04	0.05
0.00 0.00  9 - Freshwater Marsh 0.00 0.00  Project 0.00 0.00  2.51 0.00	_	00.0	00.0	0.0	0.00	00'0	00:00	00.0	00:0	00:0
Project 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		0.00	0.00	00.0	00.0	0.00	0.00	0.00	0.04	0.05
Project 0.00 0.01	reshwater Marsh							:		
sed Project 0.00 0.01:  hase 0.00 0.00  2.51 0.00										
hase 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		8		59°0	0.00	0.0	0.00	000	0.19	0.88
12:00		00.0	8.6	6.15	0.00	9.9	0.73	000	0.13	7.01
		10:00 10:00 10:00	8 5	4.55	4.6	0.0	0.31	50.7	0.4	8.74
										20.00

GeoSyntec Consultants

TABLE F-26a

SUMMARY OF TOTAL LEAD RUNOFF LOADS (LBS.)
PLAYA VISTA - FIRST PHASE PROJECT

Tributary	Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open Space	
Name				Runoff Coefficients	fficients				TP6 Loads
	0.80	0.80	0.80	0.30	0.80	08'0	86.0	0.24	Subtotals
S cord yourself									
rolling Alea D. Nestuelling	50	000	2	90	9	0.00	8	80	900
Toposed Project	3 6	200	3 6	8 6	3 6	000	88	8 8	900
TING THE BOOK	3 8	000	3 6	900	3 6	8 6	3 8	3 6	9 6
Subtotal	000	0.00	000	90.0	00.0	0.00	000	9.0	0,17
Total Area - Former Area B									
Residential									
Proposed Project	0.00	0,00	00'p	00.0	000	0.00	80.0	0.00	00'0
First Phase	0.00	0.00	00'0	0.00	000	0.00	0.0	00.0	00.0
Off-site	0.00	0.00	0 0	702.13	0.0	000	800	7,158.48	0.17
Total	0.00	0.00	0.00	702.13	0.00	0.00	0.00	7158.48	0.17
Ballona Wetlands									
ast Wetlands									
Proposed Project	8	0.00	0.00	00.0	0.00	8	000	0.00	0.00
First Phase	8	8.0	0.00	00.0	00'0	0.00	0.00	9.0	0.00
Offsite	8	00.00	0.00	0.02	00'0	8	0.10	0.17	0.28
Subtotal	0.00	00.0	0.00	0.02	0.00	0.00	0.10	0.17	0.28
South Wetlands		,	,		1	;		į	
Proposed Project	8	80	0.00	0.00	0.0	0.00	00.0	5 6	00,0
First Phase	00.00	8	0.00	0.00	0.00	000	0.00	3 (	0 0
Off-site	8 8	900	0.16	0.03	0.00	0.0	¥ 4	800	7.0
Subtotal	0.00	0.00	0.16	0,03	0.00	0.07	1.4·1	60.0	0.73
North Wetlands		;		4	0	2	i i		
Proposed Project	000	90.0	0.00	0.00	0.00	9.0	3 6	000	000
First Phase	90.0	90.0	0.00	0.00	0.00	90.0	36	8 6	000
Off-Site	900	000	0.20	40.0	9 6	9 6	2.0	† 7 6 6	8 C C
Subtotal	0.00	00,00	0.40	10.0	00.0	200	70.0	4.5.4	67:0
Total Area - Bailona Wetlands									
in butany		,		;	;	;	į	4	•
Proposed Project	8 8	00.0	0.00	00.0	000	0.0	9 6	0.00	900
First Phase	9.0	0.00	0.00	0.00	2000	0.00	3 6		0.00
Off-side Hitter	0.0	8.0	1 3	7 G	000	9 6	70.0	0 S	1,62
	òa.	00.0		60.0	200	10.2	20,0		2
Total Area - South of Ballona Channel									
Proposed Project	0.00	0.01	0.69	0.00	0.00	0.00	0.00	0.19	0.85
irst Phase	0.0	0.00	6,15	0.00	000	0.73	0.00	6,13	7.01
4.4.4.0	7.5	2	20.	50 66	0	97.0		2000	-

### TABLE F-26a

## SUMMARY OF TOTAL LEAD RUNOFF LOADS (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

	Industrial	Commercial	Commercial	Major	Open	High Density	Low Density	open Open	
Tributary				Roadways	44 BIG	Residential		30805	
Name				Runoff Coe	ficients				TPb Loads
•	0.80	0.80	0.80	0.80	0.80	0.80	0,38	0.24	4 Subtotals
Total	2.51	0.01	11.82	702.63	00'0	0.91	1,58	1.58 7159.39	18.41

TABLE F-26b

SUMMARY OF TOTAL LEAD REMOVED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

Tributary	Industrial	Commercial /Residential	Commercial	Major Roadways	Open Water	High Density Low Density Residential Residential	Low Density Residential	Open	
Name				Runoff Coefficients	<b>ficients</b>				TPb Loads
	0.80	0.80	0.80	08.0	0.80	0.80	0.38	0.24	Subtotals
Freshwater Marsh									
Riparlan Corridor at Proposed		•							
Project Boundary					į	;	1	9	ě
Proposed Project	0.0	000	000	00.0	0.00	0.0	0.00	200	96.6
First Phase	0.00	30:0	0.00	200	9 6	00.0	9 6	3 6	8 6
Off-site Subtotal	0.00	00.0	000	000	9 8	00.0	0.0	0.00	8 6
Ribarian Corridor at Lincoln									
Proposed Project	0.00	00.0	0.00	0.00	000	0.00	0.00	00.0	00.0
First Phase	0.00	00.0	000	00.0	8	0.00	0.00	90,0	0.00
Off-site	0.00	0.0	0.0	86.6	8.8	86	0.00	0.0	0.6
Subtotal	000	0.00	0.00	0.00	00'0	00'0	0.00	000	0.00
Total Riparian Corridor Tributary	90 0	000	60.0	8	000	000	6	6	00.0
Area	200	0.00	00.0	00.0		3	3		
Central Storm Unain	80.0	00.0	00'0	0.00	000	00'0	00.0	90.00	00'0
Trinst Dhase	000	00 0	00.0	00.0	0.0	00.0	0.00	8	00'0
Off-site (Jefferson Bioswaies)	000	800	0.00	0.00	0.00	0.00	00:00	0.00	0.00
Subtotal	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Jefferson Storm Drain									
Proposed Project	0.00	0.00	0.00	0.00	0.00	0,00	0.00	000	0.00
First Phase	0.0	000	0.00	0.00	000	00'0	0.0	0.0	0.00
Off-site	0.00	00.0	0.00	0.00	8	0.00	0.00	9.0 9.0	0.00
Subtotal	0.00	0.00	0.00	0,00	0.0	0,00	0.00	0.00	0.00
Lincoln Storm Drain - South						1	;	,	·
Proposed Project	8 6	000	8 6 6	000	88	9,0	00.0	000	0000
First Phase	00:0	0.00	9 5	3 6	3 8	3 6	0.00	9 6	200
Off-site (COS Unit)	9 6	000	9 4 2 9	3 8	3 8	3 8	88	800	90.0-
Subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subject of the subjec	20.0	20.0	20.5		3				
	5	0	00.0	8	900	90.0	9	8	0.00
First Obsets	88	00.0	000	800	00.0	000	000	800	000
Officito	0	000	000	000	00.0	000	0.00	0,00	0.00
Subtotal	00'0	0.00	00'0	8.3	00.0	0,00	0.00	0.00	0.00
Total Area - Freshwater Marsh									
Tributary	ç	200	ç	ç	2	5	5	000	00.0
Figer Dhasa	8 6	300	00.0	88	8 8	00.0	000	000	00.0
Off-site	000	00:0	00.0	800	8	8	0.0	0.0	00'0
Total	0.0	0.0	0.0	0.0	0.0	0.00	0.00	00'0	00.0
			100						

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## TABLE F-26b

## SUMMARY OF TOTAL LEAD REMOVED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

		Соптегсіві	Commercial	Major	Open	High Density	High Density Low Density	Open	
Tributary		/Residential		Roadways	Water	Residential		Space	
Name Name				Runoff Coefficients	ficients				TPb Loads
	0.80	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
Former Area B Residential									
Proposed Project	0.0	0.0	0.00	0.00	0.00	0.00	00:0	0.00	0.00
First Phase	0.00	00.0	0.00	0.00	0.00	0.00	0.00	8	0.00
Off-site	0.0	0.00	0.00	0.00	90.0	0.00	0.00	0.00	0.00
Subtotal	0.00	00'0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Area - Former Area B									
Residential	5	8	6	6	6	6	- 20	6	00'0
Proposed Project	3 8	0.00	0.00	0.00	3 6	000	00.0	3 6	0.00
First Phase	8 8	8 8	000	200	88	96	900	9 6	0.0
Or-size	2 6	2 6	0.0	0.0	38	000	200	000	0.00
Ballons Wetlands		W							
Fact Wellands	8	OU D	8	90	900	000	000	00.0	0.00
Proposed Project	8	000	8	00.0	000	000	00	8	0.00
First Phase	80.0	00.0	800	00.0	000	0.00	00.0	80.0	0.00
Off's ite	0.00	00.0	00.0	00.0	0.00	0.00	00'0	0.00	0.00
Subtotal									
South Wetlands									
Proposed Project	00'0	00'0	00'0	0.00	00.0	00.0	000	00'0	0.00
First Phase	0.0	00.0	0.00	8	000	9.00	0.00	0 0	0.00
Off-site	800	000	0.00	8.0	000	0.00	3	8	0.00
Subtotal	0,00	0,00	0.00	0.00	0.00	00'0	00.0	0.00	0.00
North Wetlands	1		-		;	•	į	;	;
Proposed Project	6.0	00.0	00.0	00.0	000	00.0	8 6	0.0	0.00
Tight Phase	0.0	9 1	000	86.6	0.0	00.0	0,0	3 (	00.0
Off-site	8 8	8 6	800	8 6	3 6	900	3 6	200	66.6
	2	200	20.0	3	2	2012			
Total Area - Ballona Wetlands									•
Tributary									
Proposed Project	0.00	00'0	0.00	0.00	00.0	0.00	0,00	0.00	0.00
First Phase	00'0	0.00	000	8.	000	0.00	000	000	0.00
Off-site	0.0	0.00	0.00	800	0.00	0.0	0.00	0,00	0.00
Total	0.00	00.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
						:			
Total Area - South of Ballone									
	2	2	900	8	000	000	č	8	0 0
topical pagodol L	3 1	2 1	3 1	3 6	3 6	8 6	3 6	3 6	9 6
First Phase	00.0	000	86	9 8	0.0	86.6	0.00	0.00	0.00
Off-site	00'0	00'0	9.5	3.5	0.0	90.0		D.O.	a'an

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## TABLE F-26b

## SUMMARY OF TOTAL LEAD REMOVED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

Tributary	Industrial	dustrial Commercial	Commercial	Major Roadways	Open Water	Major Open High Density Low Density Roadways Water Residential Residential	Open High Density Low Density Open Residential Space	Open	
Name				Runoff Coefficients	icients				TPb Loads
	0.80	0.80	08'0	08.0	0.80	0.80	0.38	0.24	Subtotals
Total	0,00	0.00	00'0	00.0	00.0	0.00	00'0	00'0	00.0

TABLE F-27a

# SUMMARY OF TOTAL ZINC RUNOFF LOADS (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

Tributary	Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Water	nign Density Residential	Low Density Residential	Open Space	
0 E 8 Z				Runoff Coefficients	cients				TZn Loads
	0.80	0,80	0.80	0.80	08.0	0.80	0.38	0.24	Subtotals
Freshwater Marsh							•		
Project Boundary									
Proposed Project	00'0	00.0	7.89	00'0	00'0	00.0	00'0	0 77	8,65
First Phase	0.0	000	36.13	0.00	0.00	00.0	0.00	0.11	36,23
Off-site	8	0.00	41.35	0,16	0.00	0.00	11.95	99.0	47.96
Subtotal	0.04	0.00	79.16	0,16	0.00	0.00	11.95	1.54	92.85
Riparian Corridor at Lincoln									
Proposed Project	00.0	0.00	00:0	00.0	0.00	0.00	0.00	0.00	00'0
First Phase	00.0	0.00	7.54	00'0	0.00	6.09	00'0	0.25	13.89
Off-site	00:0	00.00	9.38	00.0	00'0	0.00	3,05	0,00	12.13
Subtotal	0.00	0.00	16.62	00'0	0.00	60.9	3.05	0,25	26.02
fotal Riparian Corridor Tributary									
Area	0.04	00.00	95.79	0.16	0.00	6.09	15,00	1.79	118.87
Central Storm Drain									
Proposed Project	00.0	0.00	9.63	0.00	000	0.00	00°0	0.52	0.52
First Phase	0,00	0.00	19,27	00'0	0.00	11.69	0.00	ر ق	31.13
Off-site	0,0	0.00	0.00	2.98	60.0	00'0	0.00	0.00	2.99
Subtotal	0.01	0.00	19.27	2.98	00'0	11.69	00.0	0.70	34.64
Jefferson Storm Orain			,		;	!			,
Proposed Project	00'0	0.08	0.00	0.00	00.0	0.07	0.00	00,0	er.o.
First Phase	00'0	00.00	7.55	00.0	00.0	3.80	00.0	0,03	11.38
Off-site	46.32	00.0	5.97	14.90	0.00	(a) (	9.05	0.01	78.12
Subtotal	46.32	0.08	13.52	14.90	B.	5.74	3.05	0.03	68.65
Lincoln Storm Drain - South	,	4	,		,	6	0	6	ć
Proposed Project	0.00	0.00	00.0	0.00	3 6	966	000	00.0	0.00
First Phase	00.0	00.00	20.5	0.00	0.0	0.00	3 6	000	000
	00.0	00.0	 	07:7	3 6	7 7	57.	3 8	12.87
	200	3	100	417		-		22.5	
Presnwater wetlands Droposed Droject	0	c	o c	000	000	00.0	00.0	0.00	0.00
First Dhasa	000	00.0	00'0	0.10	000	00.0	0.01	0.30	0.41
	00.0	000	0.00	00.0	0.00	00.0	00.0	000	0.00
Subtotal	0.00	0.00	0.00	0.10	0.00	0.00	0.01	0.30	0.41
Total Area - Freshwater Marsh									
Tributary Discount Disject	5	œ C	7.80	6	5	0.07	000	20	23
	2 6	9 6	70.49	0,0	9	200	100	0.87	93.05
	3	,	2	3	;	}	;	;	

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## TABLE F-27a

# SUMMARY OF TOTAL ZINC RUNOFF LOADS (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

	-								
Yributary	Industrial	Commercial/ Residential	Commercial/ Residential	Major Open Roadways Water	Open Water	High Density Residential	Low Density Open Residential Space	Open	
Name				Runoff Coefficients	cients				TZn Loads
:	0.80	0.80	0.80	08'0	08'0	08.0	0,38	0.24	Subtotals
Total	46,36	80.0	130,51	20.41	0.00	24.96	31.29	2.83	256.44
									0000000

## TABLE F-27a

# SUMMARY OF TOTAL ZINC RUNOFF LOADS (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

	Industrial	Commercial/ Residential	Commercial	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open	
- Carno				Runoff Coefficients	cients				TZn Loads
	0.80	0.80	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
Former Area B Residential									
Proposed Project	00.0	00.0	00:0	0.0	00.0	00.0	00:00	0.00	00'0
Tirst Phase	00.0	0.00	00:00	0.00	00'0	00.0	00.0	0.00	0.00
Off-site	00.0	0.00	00'0	3.08	00.0	00.0	00.0	0.70	3.79
Subtotal	0.00	0.00	00'0	3,08	00'0	00'0	0.00	0.70	3.79
Total Area - Former Area B									
Designation	8	000	6	000	00.0	00.0	000	0.00	0.00
First Dhana	8 8	000	000	000	000	00.0	00.0	000	00.0
off-off-	000	000	000	3.08	000	00.0	00.0	0.70	3.79
Total	0.0	0.00	00.0	3.08	0.00	00.0	00.0	0.70	3.79
	_								
Ballona Wetlands									
East Wetlands						-	4		;
Proposed Project	0.0	00.00	0.00	00.0	00:	00.0	0.00	00.0	0.00
First Phase	600	00.0	0.00	0.00	8	0.00	00.0	8	0.00
Off-site	6 6	00.0	80'0	C.81	0.0	00.0	2.83	1.18	4.81 1
Subtotal	0.00	0.00	0.00	0.81	8	0.00	2.83	1.18	4.81
South Wetlands						;		;	
Proposed Project	0.0	0.00	00'0	0.00	000	00'0	00.0	0.00	0,00
First Phase	0.00	00.0	00'0	00.0	0.0	00'0	0.00	0.00	0,00
Officiale	0 6	000	 	1.27	000	2,13	12.26	96.0	18,06 18,06
Subtotal	00,0	333	1,70	7	3	6.13	14.20	3	20,0
North Wetlands	6	6	Č	8	5	8	ć	5	0
	3 6	8 6	9 6	3 6	3 6	86	900	200	
	3 6	8 6	) () ()	2,50	3 6	86	5.0	165	7.54
Subtotal	000	00.0	3,25	2.13	0.00	0.00	0.51	1.65	7.54
Total Area - Ballona Wetlands									
Tributary		5	ć	8	ć	ç	ē	9	60 6
First Phase	000	200	00:0	00:0	00.0	00.0	0.00	8	00'0
	0	000	503	4 2 1	000	2.15	15.60	3,42	30.41
Total	0.00	0.00	5.03	4.21	0.00	2.15	15.60	3.42	30,41
Total Area - South of Ballona									
Channel							_		

## TABLE F-27a

# SUMMARY OF TOTAL ZINC RUNOFF LOADS (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

Tributary	Industria	Commercial/ Residential	Commercia	Major Roadways	Open Water	High Density Residential	Low Density Residential	Open Space	
Name				Runoff Coefficients	cients				TZn Loads
	0.80	0.80	0.80	08.0	0.80	0.80	l	0.24	Subtotals
Proposed Project	0.00	0.08	7,89	00.0	0.00	70.0	00.0	1.29	6,33
First Phase	00'0	0.00	70.49	0.10	0,00	21.58	0.01	0,87	93.05
Off-site	46.36	0.00	57.16	27.60	00'0	5.46	46.83	4.79	188.26
Total	46.36	90.0	135.54	27.71	0,00	27.11	45.89	6,98	290.64

TABLE F-276

## SUMMARY OF TOTAL ZINC REMOVED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

vie; nqir _	Industrial	Commercial/ Residential	Commercial	Major Roadways	Oper Water	High Density Residential	Low Density Residential	Open	
Name				RunofCoefficients	ficients				TZn Loads
	D:30	0.30	0.30	0.80	08'0	08.0	C 38	0.24	Sublotais
Freshwater Marsh Riparian Corridor at Proposed									
Project Boundary									
Proposed Project	0.00	000	0.00	80	00'0	9 1	90.5 5	0.0	900
First Phase	000	000	8.0	8:0	00.0	0.0	20	00.0	00.0
Off-site Subtotal	88	8 8	00:0	000	000	3 <b>8</b>	2 <b>2</b>	0.00	00.0
Ribarian Corridor at Lincoln									
Proposed Project	0.0	83	200	0.00	00.00	00'0	00.0	0.00	00.0
First Phase	00.0	8	) C	0.00	0.00	8.5	50.0	0.0	0.00
Off-site	88	3 <b>5</b>	8 5	0.00	0.0	88	9 <b>5</b>	00.0	8 5
Total Riparian Corridor Tributary	3	20:0	2						
Area	8	00.0	00'0	00'0	00'0	0.00	0.00	00.0	0,00
Central Storm Drain					<u> </u> 				
Proposed Project	8	0.00	20.00	0.00	88	0.00	000	8	00.0
irst Phase	800	00:0	20.00	0.0	0	0.0	0.0	30	0.00
Off-site (Jefferson Bioswales)	90 p	0.00	0.00	-2.28	0.00	800	0.00	8	2.23
Subfotal	0.00	0.00	0.00	-2.28	00'0	00.0	0.00	00'0	-2,25
Jefferson Storm Drain	i i	(	}	ć	6	0	Ç		6
Fronsed Project	00.0	0.00	000	0.00	0.6	5.6	3 6	300	8 6
First Prase	0 00	866	3 3	9 6	0.00	0.0	200	3 6	8.6
CII-Site	88	3.6	000	8 8	30	8	000	000	000
Lincoln Storm Drain - South	200	0000		20.0	3	2010		3	
Proposed Project	00:00	00'0	00.00	000	0.00	0.0	0.00	0.00	0.00
First Phase	00.0	00'0	00.0	30,0	0.00	0.00	00.0	00.0	0.00
Off-site (CDS Unit)	0.0	88	- 1.17 1.17	6 6 8	00.6	2 2		00.0	-245 -245
Subjects: Wettends	200	000	-	60,1-	3				2
Proposed Project	0.00	00'0	0.00	80	0.00	5.03	00'0	00'0	0.00
First Phase	0.00	8.0	00.0	90 o	0.00	2.03	00.0	00'0	0.00
Off-site	0.00	000	0.00	8	00'0	0.00	00.0	0.0	00.0
Subtotal	0.60	0.00	0.00	0.00	0.0 0.0	0.00	0.00	00.0	0.00
Total Area - Freshwater Marsh									
	000	9	9	J.	n 3n	000	9.5	000	90.0
The State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the S	000	000	88	88	8 8	0.0	000	88	0.0
Off-site	00'0	00.0	00.0	20.5	000	C0.C	0.00	00:00	90.0
Total	0,00	0.00	0.00	0.00	0,00	00.0	0.00	0.00	0.00
			***************************************						

### TABLE F-27b

## SUMMARY OF TOTAL ZINC REMOVED (LBS.) PLAYA VISTA - FIRST PHASE PROJECT

a eti Min	Industrial	Semmercal/ Residential	Continencial:	Major Roadways	Open Wate:	High Density Residential	Low Density Residential	Open Space	
Name				Runoff Cos	fficients				TZn Loads
	5.65	0.80	0.30	0.80 0.80	0.80	0.80	0.36	0.24	Subtotals
Former Area B Residential									
Proposed Project	0.00	0.00	0.0	00.0	0.00	800	00:0	0.00	00.0
Firs: Phase	0.00	0.00	0.00	00.0	0.00	0.00	0.00	83.0	0.00
Otto te Softotel	000	0.0 6.0	8 5	0.00	00.0	00 <b>6</b>	0.00	S 5	00.0
Total Area - Former Area B					3	,			
Residential									
Proposed Project	3.03	0.00	00.00	0.00	0.00	00'0	0.00	0.00	0.00
First Phase	0.00	0.00	0.00	0.00	000	0.00	0.00	0.C0	0,00
<b>の: 4:4:1</b> 0円	0.6	000	0.0	00.0	000	0.0	000	S. 6	00.0
100	20.0	00.0	0.0	70.0	3	n'.	200	0.50	00'0
Ballone Wetlerde									
Deci Waterde	5	ć	Ş	60	9	5	ç	0.00	9
Proposed Project	3.6	800	8 6	89	3 5	3 6	86	3 5	8 8
First Phase	20.0	000	00.0	00.0	000	00.0	000	930	0.00
C=5:0	0.0	00.0	00'0	0.00	0.00	00'0	000	0.00	00.0
Subtotal									
South Wetlands									
Proposed Project	C0.c	00:0	00.0	0.00	0.00	0.00	0.00	0.00	0.00
First Phase	2.03	8.0	8	00.0	00.0	000	000	0.0	0.00
Officie Substantal	6.6	8 8	8 8	8 8	0.0	88	8	00:00	00.0
	200	0.00	00'00	0000	3	2000	20.0	20.0	0.0
North Wedands Proposed Project	6	00.0	Ę	G	000	9	000	00.0	90
First Phase	8.6	8 8	88	8	00.0	88	000	00.0	0.00
Off∙site	8.0	00:0	0 0	0.0	30	0.00	0.00	00.0	0.00
Subtota	00.0	00'0	0.0	000	0.00	000	0.00	0.00	00.0
Total Area - Ballona Wetlands									
Tributary									
Proposed Project	0.0	800	8	00.0	0.0	0.00	00.0	80.0	00'0
First Phase	2,03	00.0	00.0	00'0	0.0	20.0	000	3 3	0.00
Total	0.00	0.0 0.0	0 <b>0</b>	000	0 0	3 <b>6</b>	3 <b>6</b>		0.00
Total Area - South of Ballona									
Channel				•					
Proposed Project	0.00	00'0	00.0	8.0	00.0	00.0	000	0.00	0.00
Firs: Phase	0.00	00'0	00'0	0,00	00.0	0.00	0.00	0.00	0,00
Cif-s :e	0.6	00.0	00.00	000	000	20.0	8	8	0.00
I OTAI	no'n	00.00	do'n	0.00		U	0.00	0.00	0.00

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### 199,160,5\$ 6.01 1.00 6.€ 9'9 1.9 7.8 1,297 90Z' L **Z61** 062'91 reshwater Wetlands System (92% of FWM Effluent) Ballona Channel 20'02 167,666,6 19.2 2.2 6.2 7.8 089 96 Ballona Wetlands Effluent 00 0.0 117'92 гриейэМ пі бөхотаЯ ггсМ 167,355,8 0.61 33.0 1.1 6.2 T. 8 961 689 56 010,81 Total Area - Ballona Wetlands Tributary 6,347,820 1.81 1.00 7.0 91 0.8 ege: 978 84 **769 77** Street Stormwater Runoff Direct to Wetlands 686,008,1 5.h 9°Z ε.0 9.0 8.0 91 06 851 ٥८ 704 BI SDUCIDALA LILION ELL'ELL'E /'01 1'81 €.0 8.0 1.1 V'Z142 357 bb 15,850 Spugnagy thuck 6.5 9°b 1.0 4.0 0.1 S١ 996,61 Southean 1882 617,554,1 5.0 23 O L 6.0 076,500,S 9.5 €.0 9.0 9.0 8.0 115.8 104.8 7.91 9.914,1 Freshwater Marsh Effluent (8% Overflow) Sallona Wetlands L£9'660'9Z Z"OLP"L 4,805,1 707'2 k 8.Ft 25'1 7.80Z LESUMBLEL MISIZU ELLINGUL Z.4 Z. L 7.97 1 001-1.1-9 E-9 Z-₹°E-Z89-108 -31,533 AsseM to yboB nicM of bevomeA szeM 879 Main Body of Freshwater March \$2,099,631 0.86 132.9 8.01 6'01 1.71 666't 966'F 21£ 48'540 EZ 1.'095 Z'0 10 80 <u>გ. დ</u> টে 1.0 3,107 prect to Freshwater Marsh 13,533,852 8.71 9,69 8.5 **9.**2 ĽS Σ9 **568** 996 021 13,641 Effluent from RC and Lincoln Pretreatment Area 220,786,8 5.62 6.08 21 p.E 9.5 2.7 169 11/9 **†**6 809'22 Effluent from Jefferson Storm Drain Pretreatment Area 8.74 4.01 Effluent from Central Storm Drain Pretreatment Area tegrators 0.81 8.0 91 91 10 ISC 989 19 £88'6 220,788,8 661'PE AM9 nisyd myot8 noznaffal 7.67 0.5 S. Þ 9.6 S'Þ 623 708 611 191 ľþ 185'810'7 S.BZ 6.0 0.S 0.2 £ZÞ 981 D\$6'FL AMS nissQ mote testine? 1,204 AMY nisid mot 8 nicola Storm Disin PMA 13,533,852 220'0 **₽69'0**Z 11 \$ E 3.6 97 Z89: 804-31,533 retal Mass Removed in Protreatment Areas 2.84 17001 829 966,866,458 50L **322** ьı S٤ SZ 596'Z 929°Z 454 999,77 Freehwater Marsh Pretreatment Areas 9 13,533,852 33.5 L'bit ÞΈ ¢.7 8.7 1.01 1,138 1.294 622 \$96,22 serA trientisertery riconial bins OR of trientful 1027227 6771 Ż'Ò Š'Ö 8.0 184 504 82 607,2 Lincoln Storm Drain - South 127,187,52 96 777 9 ħ٤ ŧι £Z LOZ'Z 9/b'Z CRE JCR'ZJ senA siziV sysiq lalol 53.2 £.0-2.0 9 7 H b 101 099 898 121 38,062 Assar Removed Through WQ Inlets (25% of First Phase) Influent to Jefferson Storm Drain Pretreatingent Area 00 00 00 ō 562-920,786,8 53.3 151 196,86 nierO motS nostettet 9.68 1.5 **6.** 4 6.1 5.01 999 298 6.81 9116 89 2-Influent to Central Storm Drain Pretreatment Area O'L 22 ĽZ 57 669,91 8.0ōō 10 10 10--51 ō 118'1-Mass Removed Through WQ Inlets (25% of First Phase) 188'810'4 61 52'8 8.0 S <del>5.प्र</del> 997 959 096'21 Dentral Storm Drain 11,756,152 Z.E 0.7 Z60'L ZLIOL <del>126</del> <u>002</u> 9GZ'R1 Riparian Corridor at Lincoln +'R-0.0 O'O0.00.0E'L-19-101 o 169'0 Mass Removed in Lower Riparian Corridor 336 15 |-\$15'01 Cower Papanan Corndor Influent SL 1.82 6.0 8.1 91 3.5 345 20 £0. 00 00 00 ō Mass Removed Through WQ Inlets (25% of First Phase) $\overline{o}$ $\overline{o}$ $\overline{G}$ 125 5.81 3,144,959 0.92 8.0 9.€ 324 336 25 11,056 cower Riparian Comdor 261,118,8 6.81 9.67 Z/E'El Riparian Corridor at Proposed Project Boundary 8.25. 191 0.1. 6.5. ez. 825-989oz. £26,82• Mass Removed in Upper Riparian Corridor 561,118,8 58 577-6.16 Þ E *C* 9 13.4 200°1 1 356 691 ₹-S62°27 Joseff Riparian Corridor Influent 10 870-10 ľ'n In- $\bar{a}$ BUR: Mass Removed Through WQ Inlets (25% of First Phase) 261,118,8 Z:99 6.58 Þ.E **5**.7 €.3 9.61 1,252 975,1 171 441,54 Jopen Riparian Corridor Freshwater Marsh χοριώς (μ.) O&G Total Cu Diss. Cu Total Ph Diss. Ph Total Cn Diss. Zn d (eig). NXL SSJ

7641

965

7 71

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1,685

009

782

96

### PLAYA VISTA - FIRST PHASE PROJECT SUMMARY OF ANUMAL PARSE PROJECT

(rsqt) spec (

TABLE F-28

total Ballona Champel Influent

Freshwater Wellands System (92% of FWM Effluent)

sprebaW enoties

Ballona Channel

Ballona Wetlands Effluent

& Removed in Lower Ballona Wellands

Tributary - Ballons Wettands Tributary

### ₽9g€ 1

154, 144, 15

167,886,8

199'160'27

167,22E,8

167,225,6

028,746,8

25.13

6.02

6.98

%20

£.E9 E91

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Concentrations

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6.0

€.1

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%0

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81.0

%0

81,0

8,81

9.65

S.Lf

39.5

%<u>\$\$</u>

61 F.F 6.8 9.21 0.1 **6.1** 02.0 1158 Off-site Stommater Runoff Direct to Wetlands Z.I 71.0 7.691 North Wellands 886,008,1 6.68 1'29 **⊅**.⊈ 2.2  $\Gamma 9$ 8.f 6.E 15.4 2.1  $I^*l$  $\epsilon_{\Sigma,0}$ 1.00 south Wedands 5,113,113 €.68 6 26 617,664,1 32.0 8.68 **6.1** 3.2 0.2 7.01 90 ¢ι **ZI**-0 €'6#1 EBSE Wedands (wolliavO %B) fribunt (8% Overflow) 076,700,2 6.9 6.02 LZ9.4 6.2 0.9 6'0 8.0 61.0 8.11 **Ballona Wetlands** 169,690,83 5.7 6,02 2"7 9°Þ 2.4 0.8 6.0 8,0 ££'0 £'ll Freshwater Marsh Effluent %09 %9Z %16 35% %EE %S# %12 %⊅E %**≠**€ %**7**9 Removed in Main Body of Marsh 169,690,631 0.7£ 8.8 0.5 6.01 2.1 1.3 070 31.4 Main Body of Freshwater Marsh 8,48 9.0 ۴.9 1.4 1.0 **†**'0 90'0 6'88 Direct to Freshwater Marsh £21,088 13,533,852 517 5.37 ε.ε 8.8 49 6 L 111 1.1 0.20 1.91 Effluent from RC and Lincoln Pretreatment Area Ellinent from Jefferson Storm Disjin Prebestment Area \$**20**,786,8 7.78 Z'911 6.ε ĽŁ 8.3 6.01 9. r G'I72.0 8.13 Effluent from Central Storm Drain Pretreatment Area 186,810,4 9 1 1 272 3.2 5.3 2.9 15.3 b. L 51 07.0 ₱16£ MA nisiti moto nostelle SZ0'186'9 108.4 B.Z81 5.4 9'6 DOL 0.22 6 L 6. F 75.0 ¥.87 Central Storm Drain PMA SZO 9'69 9.99 6' L 185'810'9 C'ZLL 8.£ f.B R' / 5.91 1"1 Riparian Corridon/Lincoln Storm Drain PMA £. F 62.0 \$. AS 2 TE %PP 5.0F 71 528,6£8,61 **6.711** 8.£ 28 4.8 % Removed in Pretreatment Auess %92 31% %12 %97 %97 %10 %£# %41 %#Z Preshwater Marsh Pretreatmonn Arcas 84,539,458 8.69 Z.4. Z\*6 16.3 82.0 7.02 P.E21 72.0 7.72 senA themseven Preventing of the Prevention Prevent 0.261 0.4 8.8 **5.**6 7.65 45.4 rince? - riteriQ mooiS niconi. 102,777,1 0.68 6'911 97.0 8,6 9.1 Ľŀ 92.0 £\*15 72,761,757 7'951 77 5,6 4.9t Total FWM Project Area Tributaries 8.83 6,121 6.40Z 1.4 £.01 e.ez 0.5 2.0 62.0 £.78 serA friends of the Pretreatment Area 9'984'052 189'810'# 155.9 6.£ 8.6 €.8 1.2 12.0 6.09 Influent to Central Storm Drain Pretreatment Area 6.47 **5**'6 E. 1 ٦.5 €.0 54.9 Ripartan Corridor at Lincoln 291'992't L **798** 8.7£1 E.A %00 %00 %0'0 %0'0 %**2**E %SZ %ZZ %0 %Þ9 & Removed in Lower Riparina Conidor %55 696'771'8 8.17 130 1 ₽.Þ 0.6 €.8 49.0 2.1 5,0 92.0 9.63 (steint DW teite) theuthin tobinoù nafisqi? I swo. Riparian Corridor at Proposed Project Boundary 261,118,8 S.RE 9.051 Þ.Þ 9.6 6.9 **7** 1 1 เรา 5-1 6.0 6°7Z у кеизолед из пррег кіралап Сошдог **%**99 **%**81 %0€ %1C 8601 %ÞS %Er %00 %71 %99 Opper Ripadan Corridor Influent (after WO Inlets) 261,116,8 is tot 15170 €.8 8 61 911 0'98 5.3 5.5 16.0 1.81 Freshwater Marsh (II) eunioy #5 .esid na teroT Diss. Pb da leioT Diss. Cu Total Cu סאיני NXI (µ6n) (թմա)

### PLAYA VISTA - FIRST PHASE PROJECT EDMMARY OF CONCENTRATIONS (MG/L)

LVBTE E-73

TABLE F-30

# SUMMARY OF RUNOFF FROM TRIBUTARY AREA SOUTH OF BALLONA (FT) PLAYA VISTA - South of Ballona - Proposed Project

Troutary	Incustral	Commercial/ Rasidential	Comercial	fkajor Roadways	Open Water	High Density Residential	Low Density Residential	Open	
Name				Ruroff	Runoff Coefficients				Volume (ft3)
	C 9C	080	<b>08</b> 0	08.0	. ce'c	D,80	C.38	0.24	Subfotals
Freshwater Marsh Riparian Cordor al Proposed Project Boundary									
Proposed Florest	c	837 776	c	9	Ċ	244 487	c	c	358 646
Impervious Areas	. 0	57,079	90	, v	, 0	122,244	9 0	9 0	179,323
Penrous Areas	6	15,026	0	v	118,715	42,748	6	145,173	323,660
Roads	C) i	78.787	ווס	ভা	o .	168,735	O)+	OI,	247.521
Proposed Project Subtotal	0 (	269,050	0 (, 0	<b>ب</b>	118,715	576,213	0 1	145,771	1,109,149
Off-site	2,032	) ()I	2,350,087	15.237		יט ר	1,979,755	463.935	2,645,735 4,841,047
Subtotal	2,032	269,050	4,786,201	15,237	260,930	576,213	1,979,755	706,512	8,595,931
Proposes Dro ed		,	c	Ĺ	ς.	c	c	·	•
Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Section Sectio	) c	י כ	606 B65	<i>,</i> c	331 834	1 040 063	3 6	205 194	9 0 9 9 7 7 8
Off-site	ore	ଠାର	609,830	) DI 6	0 700		505,353		1,115,183
Total Rinarian Corridor Tributary	,		cac'all'	•	***********	COO O DA	eceione	+7C 101	808'th '0
Area	2,032	269,050	5,902,587	15,237	592,764	1,586,276	2,485,109	887,836	11,740,891
Central Storm Drain									
Proposed Project	,		•		,		,		
Sulfaings	00	236,306	00	0.0	0 0	757,435	0.0	0 (	995,442
Pervious Areas	٥	39.656	00	0 0	<b>•</b>	125,239	00	39.256	204.173
Roads	01	110,056	C)	. 01	01	359,245	0	0	460,302
Proposed Project Subtota	0	506,734	C	0	0	1,612,638	ıc.	38,286	2,157,637
First Ohase	o į	00	1,293,315	0 250	0 0	1,536,490	o (	133 479	3,363,784
Subtotal	388	506,734	1,293,815	275.964	o 10	3.549.128	51.65	171,745	5.797.724
Jefferson Storm Drain									
Proposed Project	·	2	ć	(		,	,	4	•
dustrings	> <	1.047	50	20	3 (	200	3.5	0.0	20 C
Pervious Areas	00	437	00	9 0	<b>.</b> .	729	00	٥ ٥	1,165
Posds	O) (	2.882	Ø	Ol	Qi.	4 804	O):	O)	7,686
Proposed Project Subtotal	00	7,250	0.000	0 0	ပေး	12,084		0 0	19,334
Off-site	2,215,153	. 0	400.910	.378.865	γŲ	310,502	1,500,616	6.298	5.812.297
Subtotal	2,215,163	7,250	908.142	1,378,605	Ģ	952,055	1,500,619	24,989	6,987,025
Lincoln Storm Drain - South	,	ı							
Froposed Project	96	<b>.</b>	00	a c	o c	00	00	 	0 ;
Off-site	• •	0	130,025	208,259	. o	238,379	1,197,630	c 0	1.775.263
Subfolal	10	10	130,025	209,259	10	238,379	1,197,600	2,438	1,777,701
Freshwater Wetlands	,			,					
r'oposed Project	90	00	00	0 0 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 6	0 ,	000,000	0 712
Off-site	. 0		00	7.0	1075	) G	0000	0	t /I. nacc
Sublotal	ō	10	0	9,481	328,448	10	1,608	220,636	560,173
Total Area - Freshwater Marsh									
Troutary Proposed Project	c	783.034	۰	6	118 715	2 200 635	-	760.69.	3 286 434
First Phase	ن د	30	4,753,717	9,481	302,497	3.576,022	1,608	633, 973	9,757,299
Off-site	2,217,533	O!	2,500,652	1.879.266	OI	543,831	5,183,328	490,234	13,820,093
Total	2,217,533	783,034	8,234,569	1,858,746	921,213	6,325,838	5,184,936	1,307,644	26,863,513

TABLE F-30

SUMMARY OF RUNOFF FROM TRIBUTARY AREA SOUTH OF BALLONA (FT)
PLAYA VISTA - South of Ballona - Proposed Project

Tributary	Industrial	Commercial/ Residential	Commercial	Major Rosdwsys	Oper. Water	High Density Residential	Low Density Residentia	Open	
Name				Runcff	oefficients				Volume (ft3)
	03.0	0.80	0.80	5,60	0.80	08'0	3.58	0.24	Subtotals
Former Area B Residential (Direct to Ballona Channel)									
Proposed Project First Phase	00		00	00	ပပ	00	00	00	
Off-site Subforal	010	<b>ΟΙ Φ</b>	OI O	285,445 285,445	u	OI 0	010	512.786	798.23 128.23
Total Area - Former Area B								1	
Residentia			c	,			ć		
Froposed Project		ب ب ب		ń c	ب ب	0 0	- -		<b>.</b>
Off-site	010		· 🗇 C	285.445	· () (	· O  C	અ	512.786	798.231
Cotal	,	<b>-</b>	2	C## C97	2	>	5	212,(60	1.52.00
Bellona Wetlands									
East Wetlands	,								
Proposed Project	0	0 (	0 0	o c	u t	0	0 (	00	۰ ۵
TISE Prase	> c	٠	- c	74.830	30 475	<b>-</b>	168 521	D 950 201	1 423 740
Subfotal	010	л <del>с</del>	90	74,832	30,475	0 (0	468,521	859.891	1,433,719
South Wetlands									
Fraposed Project First Dhase	00	<u>ت</u> د	00	o c	ပင	96	00	00	0 0
Off-site	0	ات د	119,528	117,835	54,177	355,675	2,032,346	433.348	3,113,113
Subforal	0	0	119,528	117,835	54,177	355,875	2,032,349	433,348	3,113,113
North Wetlands									
Proposed Project First Dhase	0 0	ပင	00	00	oс	0 0	00	00	0 0
Off-site	) () (	) ।	218,401	197.4C8	58,196	339	84,116	1,202,527	1,800,988
Mindia	>	>	10,40T	197,400	30,136	857	04,710	170,707,	1,000,900
Tributary									
Proposed Project	Q	0	0	٥	ن	o	c	o	٥
First Phase	0	ο.	0	0	o	0	c.	0	0
Off-site Total	Oi O	ाठ	337,929 337,929	390,075 390,075	182,847 182,847	355,214 356,214	2,584,989	2,495,766 2,495,766	6,347,820 6,347,820
Total Area - South of Ballona									
Channel									
Proposed Project	0	783,034	o	Ö	118,715	2,200,935	٥	183,437	3,286,121
First Phase	0		4,733,717	9,481	802,497	3,576,022	1,608	633,973	9,757,299
Off-site	2.217.533	- F	3,638,781	2.554.785	182,847	905,095	7.768.346	3,498,786	20,966,144
	distriction of	100,00	0,00 P. T.	L,	1,147,400	4,044,05	~#5'60'd'	41016112C	+ A-' = A A'E A

## TABLE F-31a

# SUMMARY OF TOTAL SUSPENDED SOLIDS RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Tributar≻	ndustrial	Commercial/Riesidential	Commercial	Major Roadways	Open Water	Other or Unknown	High Density Resident al	Low Density Residential	Open Space	
a wex		_		Runoff	Runoff Coafficients	sins				TSS Loads
	0.80	08.0	08'0	J 80	080	0.80	08.0	0.38	5.24	Subtotals
Freshwater Marsh Riparlan Cortdor at Proposad Prolect Roundary										
Proposed Project	0.00	906.23	0.00	00 C	00.0	0.00	1,449.09	0.00	2,026.58	4,381.90
First phase	0.00	8	10,242,27	00 O	000	0.00	00'0	0.00	1,030.58	11,322,85
Off-site Subfotal	22 56 <b>22.5</b> 6	0.00 9 <b>06.23</b>	9,963.52 20,205.80	37,48 37,48	00.0 <b>0</b> .0	0.00	0.00	4,978,78	6,755,74 9,862.90	21,758,08 37,462.83
Riparian Corridor at Lincoln				c		00	9 0	8	. 6	90.0
Proposed Project First Phase	3 8 5 6	30	2.138.51	8 8	3 8	3 8	2.540.15	3 8	2.531.28	7.209,94
Off-s te	86	00'0	2,574.51	00:0	0.00	0.00	0.00	1,276.83	0.00	3,845.39
Subtotal Total Pharlan Corridor Tributany	00.0	00'0	4,713,02	00'0	0,0	0,0	2,540.15	1,270.88	2,531.28	11,055,33
Area	22.56	906.23	24,918.82	37,48	00'0	0.00	3,989.24	6,249.66	12,394.18	48,518.16
Central Storm Drain			•	•						
Proposed Project	8	1,706.81	900	0.0	8	8 3	4,055.53	8.8	534.19	6,296.53
First Phase	00.00 1.00	0.0	5.462.07	0 io	800	200	4,363,97	9 6	1,883.35	12,195.40
Subtotal	3.76	1.706.81	5.462.07	678.81	3 6	300	8.925.50	8 8	2.397.55	19.174.50
Jefferson Storm Drain		•								
Proposed Project	8 6	24.42	96.0	800	8	8.8	30.39	000	00.0	54.81
First Phase	9 7	3 (	2,141,37	00'0	0.00	20.0	708.3.02	8 25	ZE0.93	3,985.32
On-sie Subtotal	24,594.31	24.42	3,833,88	3,391,54	3 <b>8</b>	3 8	2,394.27	3,773,82	348.85	38,351.10
Lincoln Storm Drain - South										
Proposed Project	000	0.00	0000	8	0.00	0.00	0.00	80	90.0	8
First Phase Off-cre	8 6 0 6	8.8	0.00 548-92	514 73	88	20.00	500.00	9.00	2 C	34.03
Subtotal	0.0	0.00	548.92	514.73	00.0	00.0	599,49	3,011.78	34.03	4,708,95
Freshwater Wetlands	00.0	000	UC C	00.0	5	יייי	0.00	VC C	03.0	9
First Phase	38 0	0.0	000	23.32	000	00.0 00.0	0.00	4. 8	3,080.07	3,107,44
Off-site	00 0	0.00	00:0	0,00	000	8 8	0.00	90.0	C.C0	0.00
Total Area - Freshwater Marsh	20.0	2010	200						2000	
T <b>ributary</b> Proposed ⊃roject	00 0	2.637.46	00.0	0.00	8	0.00	5,535,01	00.0	2,560,77	10,733,24
First Phase	90 c	0.00	19,984,23	23.32	0.00	0.00	8,993.14	4. S	8,850.25	37,854,98
Off-s.ce	24,620.63	0.00	14,779.47	4,622.55	8.6	0.0 0.0	7,380,35	13,035.26	6,843.67	65,281.92
	70.03043	Q#1,12014	20.00 145	10-51-01-		,	61.006.01	20,000,00	20,404,03	210,011

Former Area B Residential Froposed Project First Prase Off-site Subtotal Former Area 6 Fresidential Proposed Project First Phase First Phase	98 97 97 98 98 98 98 97 98 98 98 98 98 98 98 98 98 98 98 98 98	8 0000 0000 000 0 0000 0000	2000	Runoff C	Coefficients	nfs				TSS Loads
B Residential	98 0000 0000 0000 0000 0000 0000 0000 0	8 888 88 88 88 88 88 88 88 88 88 88 88	98 9000 0000 0000 0000		S				-	
B Residential	00 00 00 00 00 00 00 00 00 00 00 00 00	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	202 <b>8</b> 2028		0.30	0.80	C.80	96.0	6.24	Subtotals
ner Area B	88 88 88 88 88 88 88 88 88 88 88 88 88	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	8 9 9 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9							
ner Area B	000 00 00 00 00 00 00 00 00 00 00 00 00	00000000000000000000000000000000000000	900 <b>8</b> 000 000 000 000 000 000 000 000 000 0	00.0	00.0	0.00	0.00	000	0.00	0.00
ner Area B	00 00 00 00 00 00 00 00 00 00 00 00 00	00000000000000000000000000000000000000	00 <b>8</b> 00 00 00 00 00 00 00 00 00 00 00 00 00	00'0	00'0	000	8	800	000	00.0
ner Area B	00 00 00 00 00 00 00 00 00 00 00 00 00	80 00 00 00 00 00 00 00 00 00 00 00 00 0	<b>8</b> 000	702.13	00.0	0.00	00.0	00.0	7,153.48	7,860,61
ner Area B	98.0 00.0 00.0 00.0	0000 0000 0000 0000	96'6 96'6	702.13	0.00	0.00	0.00	0.00	7,158.48	7,860.61
	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	00000 000 00000 000	888 888 888							
	3 8 8 <b>9</b>	00000000000000000000000000000000000000	388	ć	6	8	0	8		6
	00.00	00.00 00.00 00.00	3 5	3 5	3 8	3 8	36	3 6	550	3 5
	00.0	00.00 C0.00 E9	3	702.13	800	0.0	600	8 8	7,158.48	7,860,61
		0.03	0.00	702.13	00,0	0.0	0,00	0.00	7,158.48	7,860.61
		00.0								
Ballona Wetlands		0.00 E9								
		0.0							_	
-oject	2.30	5	90.0	0.00	8	0.00	00:0	8.	0.0	0.00
ase	88	3 6	0.00	8.5	8.8	0.0	8.0	0000	00.0	00.00
	2 6	3.5	200	184,07	3 6	36	3 <b>5</b>	07.071.1	12,004.07	13,406,59
otlande	2		3	2		3	20,1	7.0		00.00
	000	0.00	900	000	00.0	000	000	900	000	0.00
	200	00'0	90.0	60.0	000	000	0.00	- R	05:0	0.00
	800	0.00	504.6	289.85	85	0.00	354.97	5,111.04	6,049.54	12,850.01
	00.0	0.00	504.61	289.85	00.0	00.0	894.97	5,111.04	6,049.54	12,850.01
North Wetlands										
oject	800	0.00	00'0	0.00	80.0	0.00	0,00	800	0.00	00.0
ase	ပ်င် ဂ	0.00	00°0	0.00	9	0.00	0.00	8	00:0	00.00
<del></del>	88	0 6	922.02	45.5.5. 2.0.5.5.	8	0.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	27.52	15,787.26	18,407,25
	20.00	00.0	70.778	463.36	0.00	0,0	0.00	+C.112	10,101.20	10,401
Total Area - Ballona Wetlands										
		6	;	ć	Ç		(	3	ć,	
Proposed Project	3 6	38	38	3 6	3 8	5 6	800	200	88	0.00
	36	38	1 426.63	050.00	3 8	3 8	20.00	8 500 BA	24 840 B7	44 622 55
	0.00	0.00	1,426.63	959.49	0.00	0.00	895.62	6,500.84	34,840.87	44,623.65
Total Area - South of Ballona										
Coject	0.00	2,537.46	0.00	0.60	0,0	0.0	5,535,01	0.00	2,560,77	10,733,24
sse	0.00	0.00	19,984.23	23.32	0.00	D0:0	8,993.14	4.04	8,850.25	37,854.98
Off-site 24,	1,620.63	0.00	16,206.09	6,284.17	8.6	0.0	2,276.17	19,536.10	48,843.01	117,765.18

## TABLE F-31b

# SUMMARY OF TOTAL SUSPENDED SOLIDS LOADS REMOVED (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

418.86 C.00 0.00 0.00 0.00 0.00		Water	Unknown	Residentia:	Residential	Space	
New ater Marsh   1960   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970   1970	Runoff C	Runoff Coefficients					TSS Loads
Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name	08.0	08 C	0.9C	0.80	0.38	0.24	Subtotals
dary         D30         418.86         0.00           Seed Project (Crisite Biofilters)         0.00         0.00         0.00           Phase         0.00         0.00         0.00         0.00           Seed Project         0.00         0.00         0.00         0.00           Phase         0.00         0.00         0.00							
Seed Project (Christis Biofitiers)   0.00   418.86   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.0			:	:	,	!	1
Phase   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	00.0	8 :	8	440.39	0.00	0.00	-858.95
te in Corridor at Lincoln	0.00	80	8	000	0.00	8	0.00
ian Corridor at Lincoln seed Project seed Project seed Project seed Project seed Project seed Project seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Project Seed Pr	0 <b>6</b>	00.0	88	0.00	8 6	0.0	0,00 8,58 8,0
Seed Project   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	25.5	20.0	3	60.04	20.5	3	0000
Seed Project   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	6	8	Ş	5	00.0	0	5
Prase   C.00	3.0	3 6	3 8	3 6	0.00	3 6	90.0
Startan Corridor Tributary   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	600	88	3 8	38	3 8	3 8	8 6
Riparlan Corridor Tributary   0.00   418.86   0.00     al Storm Drain   C.CO   .398.73   0.00     bhase   C.CO   .398.73   0.00     bhase   C.CO   .398.73   0.00     claim Drain   C.CO   .398.73   0.00     claim Storm Drain   C.CO   .300   0.00     claim Storm Drain   C.CO   0.00   0.00     claim Storm Drain   C.CO   0.00   0.00     claim C.CO   C.CO   0.00   0.00     claim C.CO   C.CO   0.00   0.00     claim C.CO   C.CO   0.00     claim C.CO   0.00     claim C.CO   0.00   0.00     claim C.CO	00.0	900	200	8 8	800	300	8 6
al Storm Drain Sec Project (Ons:e Bio'tllers) C.CO -398 73 0.00 Phase Project (Ons:e Bio'tllers) C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -398 73 0.00 C.CO -309 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -300 0.00 C.CO -30							
in Ones:e Bicritters) C.CO -398.73 0.00 C.CO -3.00 C.CO	0.00	00.0	0.00	-440.09	00.0	0.00	-858.95
Christe Bicritters) C.CO -388.73 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.00 0.00 C.CO -3.							
Frain 6.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00	8	0.0	-622.52	83	8 3	-1021.26
12 Eloswales) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.0	00.0	00.3	00 00	8:	8:	0.00
Marsh  O.00	-211.51	00:0	00.0	00.0	83	88	-211,61
Praint         0.00         0.00         0.00           0.00         0.00         0.00         0.00           ain - South         0.00         0.00         0.00           0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00           nds         0.00         0.00         0.00           0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00           0.00         0.00         0.00         0.00	-211.51	8	0.00	-622.52	86.6	3	1232.5/
ain - South 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			6			6	ć
ain - South 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	3 8	3 3	3 6	38	3 8	3 6
in - South 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	00.0	3 3	3 6	3 6	8 8	88	8.6
in - South 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	000	800	00.0	00.0 00.0	38	8 8	0.00
nds							
nds 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	00-0	90	0	8	8	00	00'0
nds 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	0.00	800	00'0	0.00	8	800	0.00
106 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	00.0	00:00	0.00	00:0	800	00.0	0.0
Selection	0.00	0.00	0.00	0.00	8	8.6	0.00
se 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		3	6	ć	ć	S	ć
83 C.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	9 6	3 6	3 6	90.0	3.5	3 8	8 8
2a - Freshwater Marsh 6.00 0.00 0.00 0.00	20.0	000	000	800	88	8 8	00.0
hwater Marsh 6.00 0.00 0.00	0.00	000	0,0	0.00	00.0	0.00	0.00
00.0 00.0							
	0.00	CO.0	000	00.0	80	800	0.00
0.00 0.00 0.00	0,00	0.03	0.00	00.0	ტ 0	800	0.00
00.0 0.00 0.00 et al.	0.00	0.00	00.0	00.0	8 8	8	0.0
0.00 0.00	000	0.00	0.00	0.00	00.0	000	0,00

## TABLE F-31b

# SUMMARY OF TOTAL SUSPENDED SOLIDS LOADS REMOVED (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Tributary	ndustrial	Commercial/R esidential	Commercial	Major Roadways	Open	Other or Luknown	High Density Residential	High Density Low Density Residential Residential	Open Space	
Name	:			Runoff	Runoff Coefficients	15				TSS Loads
	0.80	0.80	0.80	0.80	0.80	0.80	08.5	0.38	0.24	Subtotals
Former Area B Residential										
Proposed Project	6.0	00.0	00.0	0.00	0.00	0.00	0.00	00 0	00.0	0.00
First Phase	0.00	0.00	00:0	90.0	8,0	0.00	00'0	00 0	00.0	0.00
Off-site	0.00	0.00	00'0	00.00	0.00	0.00	00'0	90 G	00.0	0.00
Subtotal	0.00	00'0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00'0
Total Area - Former Area B										
Residential	;	į		;	1		,	;		
Proposed Project	33	3 8	9 6	88	0.00	6 6 8	000	8 0 0	8 8	00.0
	800	000	20.0	50.00	3 6	3 6	0.00	90	8 :	0.0
- Sta	00 <b>0</b>	0 0 0 0	3.6	000 0000	00.0	000	8 6	8 <b>8</b>	88	8.6
Rallona Watlands										
Fact Metlands	0	0	2	000	6	ç	5	8	Š	*
	9 5	90.0	3 6	3 8	9 5	000	38	3 8	3 8	9 6
	3 6	90.0	3 6	20.0	3 5	0.0	3 8	3 6	3 8	8 6
Off-site	900		88	8 6	9 9	3 5	38	88	3 8	8 6
Subtotal							200	3,1	3	25.5
South Wetlands										
Proposed Project	89	00.0	0.00	000	00.0	00 0	000	20.0	0.00	00.00
First Phase	00.0	800	8.8	0.00	00'0	000	000	0.00	800	00'0
Off-site	00'0	රිර	0.00	0.00	C.C3	00:0	000	90.0	0.00	0.00
Subtotal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
North Wetlands										
Proposed Project	8	800	00.0	0.00	00.0	800	0.00	00.0	0,00	0.00
First Phase	000	8	0.00	0.0	800	8	90.0	00'0	0.00	0.00
On-S.e Subtotal	88	2 6	8 6	6.6	88	0 s	8.8	0.0	0.00	0.00
	200	3	2	20.0	24.0	3	00'0	0.00	90.5	0.00
Total Area - Ballona Wedands					ļ					
Tributary					_					
Proposed Project	90°	00.00	0.00	80.0	000	8	0.00	6.63	0.00	0.00
First Frase	83	0.00	8	0.0	8	000	8.	0.03	0.00	0.00
	28	0.5	0 6	8.8	8 8	98	8 6	88	0.00	0.00
		0.00	20.5	3	3	20.0	0.00	00.0	30.2	00'0
Total Area - South of Bailona Channel		•								
Proposed Project	0.0	0.00	00:00	90 C	9.00	0.00	0.0	00.0	00.0	0,00
First Phase	0.00	8.9	0.00	000	000	00.0	00.0	00.0	80	00.0
Off-site	00.00	0.00	200	000	0.00	0.00	00.0	85	800	00,0
Total	0.00	0.00	00.0	00.0	0.00	0.00	0.00	00.0	0.00	0.00

TABLE F-32a

# SUMMARY OF TOTAL PHOSPHORUS RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Name         0.00         0.80         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00 <t< th=""><th>Commercial Acadways</th><th></th><th>Water Unknown</th><th>High Density Residential</th><th>Low Jensity Residential</th><th>Open</th><th></th></t<>	Commercial Acadways		Water Unknown	High Density Residential	Low Jensity Residential	Open	
Name	Runa	Runoff Coefficients	cients				TP Loads
Name of the Proposed   Company	0.80	0.80	0.90	0.80	0.38	0.24	Subtotals
et Boundary sed Project  by sed Project  color  col							
sed Project 0.00 5.34 0.00 66.47 1.81							
Praise   0.00   0.00   0.00   0.00	0.00	0.00	90.0	8.50	00.0	1.12	14.97
State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   State   Stat	0.00	80	0.00	0.00	00.00	0.60	61.07
Seed Project	0.28	900	0.00	8	29.22	3.74	92.11
Sad Project	0.28	00.0	0.0	8,50	29.22	5.45	168,15
sed Project:         0.00         0.00         0.00         12 53           hase         0.00         0.00         12 53         12 53           tai         0.00         0.00         27.83         145.20           Riparian Corridor Tributary val         0.04         5.34         147.13           al Storm Drain         0.04         5.34         147.13           sed Project         0.00         0.00         0.00           sed Project         0.00         0.01         0.00           sed Project         0.00         0.00         12.64           e         42.62         0.00         0.00         0.00           sed Project         0.00         0.00         0.00           e         0.00         0.00         0.00           sed Project         0.00         0.00         0.00           sed Project         0.00         0.00         0.00           sed Project         0.00         0.00         0.00           Avase         0.00         0.00         0.00           Avase         0.00         0.00         0.00           Avase         0.00         0.00         0.00           Avase							
Prizee         0.00         0.00         12.53           Atal         0.00         0.00         17.13           All Storm Drain         0.04         5.34         147.13           all Storm Drain         0.04         5.34         147.13           sed Project         0.00         0.00         0.00           tall         0.01         0.00         0.00           sed Project         0.00         0.14         0.00           sed Project         0.00         0.14         0.00           sed Project         0.00         0.14         0.00           sed Project         0.00         0.00         3.24           water Wetlands         0.00         0.00         3.24           water Wetlands         0.00         0.00         0.00           sed Project         0.00         0.00         0.00           dela         0.00         0.00         0.00           fast         0.00         0.00         0.00           Area         0.00         0.00         0.00           Area         0.00         0.00         0.00           Area         0.00         0.00         0.00           Area<	0.0	80	0.00	0.03	0.0	0.00	0.00
Storm Drain   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	00.0	8	000	14.91	000	1.40	28.94
Riparian Corridor Tributary         0.00         0.00         27.83           Riparian Corridor Tributary         0.04         5.34         147.13           sed Project         0.00         0.00         32.25           the sed Project         0.00         0.01         0.00           the sed Project         0.00         0.14         0.00           the sed Project         0.00         0.00         12.64           the sed Project         0.00         0.00         12.64           the sed Project         0.00         0.00         3.24           the sed Project         0.00         0.00         3.24           water Wellands         0.00         0.00         3.24           water Wellands         0.00         0.00         0.00           thal         0.00         0.00         0.00           thal         0.00         0.00         0.00           thal         0.00         0.00         0.00           Area - Freshwater Marsh         0.00         0.00         0.00           thal         0.00         0.00         0.00           thal         0.00         0.00         0.00           thal         0.00	00.0	8	000	000	7.46	000	22.66
Riparian Corridor Tributary         0.04         5.34         147.13           all Storm Drain         0.00         0.00         0.00           sed Project         0.00         0.00         0.00           sed Project         0.01         0.00         0.00           sed Project         0.00         0.14         0.00           sed Project         0.00         0.00         12.64           e         42.62         0.00         9.99           hase         42.62         0.00         9.99           hase         0.00         0.00         9.99           hase         0.00         0.00         9.99           hase         0.00         0.00         9.99           hase         0.00         0.00         0.00           e         0.00         0.00         0.00           fall         0.00         0.00         0.00           Avair         0.00         0.00         0.00           fall         0.00         0.00         0.00           Avair         0.00         0.00         0.00           Avair         0.00         0.00         0.00           Avair         0.00	0.00	00.0	0.0	14.91	7.46	1.40	51.60
Storm Drain   0.04   5.34   147.13     sed Project   0.00   0.00   0.00     sed Project   0.00     sed Project   0.00   0.00     sed Project   0.00				! ! !	:	:	
Storm Drain   0.00   0.005   0.000		0.00	000	23.41	36.58	6.87	219.74
sed Project 0.00 -0.05 0.00 0.00 14se 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.							
Prase 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	60.0	80	0.00	23.60	0.00	0.30	34,15
tail  Seon Storm Drain  Hasse	8.	800	0.00	28.58	0.00	1.03	61.86
tisil         0.01         10.05         32.25           sed Project         0.00         0.14         0.00           sed Project         0.00         0.00         12.64           e         42.62         0.00         9.99           tfall         42.62         0.00         9.99           tfall         42.62         0.00         9.99           hase         0.00         0.00         0.00           e         0.00         0.00         3.24           water Wetlands         0.00         0.00         3.24           water Wetlands         0.00         0.00         0.00           feal         0.00         0.00         0.00           Area - Free hwater Marsh         0.00         0.00         0.00           Area - Free hwater Marsh         0.00         0.00         0.00           frase	5.09	8	8.8	0.00	0.00	0.00	5.10
sed Project         0.00         0.14         0.00           sed Project         0.00         0.00         12.64           e         42.62         0.00         9.99           ital         42.62         0.01         22.64           in Storm Drain - South         0.00         0.01         22.64           in Storm Drain - South         0.00         0.00         0.00           sed Project         0.00         0.00         0.00           hase         0.00         0.00         0.00           hase         0.00         0.00         0.00           Area - Free hwater Marsh         0.00         0.00         0.00           Area - Free hwater Marsh         0.00         0.00         0.00           Area - Free hwater Warsh         0.00         0.00         0.00           Area - Free hwater Warsh         0.00         0.00         0.00           Area - Free hwater Warsh         0.00         0.00         0.00	5.09	8	0.00	52,38	0,00	1,33	101.11
sed Project 0.00 0.14 0.00 14. 12.64 14.829 14.829 0.00 0.00 0.00 12.64 14.62 0.00 0.00 12.64 14.82 0.14 22.64 14.829 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.							
Prince   0.00   0.00   12.64     Ital	0.00	000	0.00	0.13	0.00	0.00	0.32
Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   Marken   M	0.00	8	0.00	67.5	0.00	4	22.08
In Storm Drain - South 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	25.43	8	8	4.58	22.15	0.05	104.63
Storm Drain - South   0.00   0.00   0.00	25.43	8	80.0	14,05	22.15	0.19	127.23
sed Project 6.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	(	2		4	;	;	1
New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York   New York	0.00	3 8	3 8	3 6	30.0	0 (0	00.0
teal         0.00         0.00         3.24           water Wetlands         0.00         0.00         3.24           sed Project         0.00         0.00         0.00           tal         0.00         0.00         0.00           Area - Freshwater Marsh         0.00         0.00         0.00           Area - Freshwater Marsh         0.00         16.54         0.00           Passe         0.00         0.00         17.98           Fasse         0.00         0.00         87.26	00.00	3 8	3 8	S (	0.00	C.02	0.02
water Wetlands         0.00         0.00         0.00           hase         0.00         0.00         0.00           tal         0.00         0.00         0.00           Area - Freshwater Marsh         0.00         16.54         0.00           strate         0.00         0.00         17.98           trase         42.67         0.00         87.26	0 6	3 6	3 5	70.00	7.00	3 6	28.30
sed Project 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.			9	47.17	201	70,0	10.01
hase 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	8	0.00	8.0	00.0	9	000	0.00
6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	C.17	0.00	6.6	00.0	0.02	1-	1,90
6 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.							
Area - Freehwater Marsh 6.00 16.54 0.00 17.96 17.96 17.96 6.00 16.57 0.00 17.96 6.00 17.96	0.00	0.00	8	000	0.00	00.0	00'0
Area - Free hwater Marsh ary 0.00 16.54 0.00 17.96 0.00 42.67 0.00 87.26	0.17	0.0 0	9.0	0.00	0.02	1.71	1.90
Any C.00 16.54 C.00 17.98   Pass							
735	6	6	6	0			;
42.67 0.00 87.26	3!	3 6	3 6	32.48	8	1 42	49.44
97.75 U.U. 37.26	71.0	0.0	8 8	52.78	0.02	8 i	175.87
15 KA . 20K 24 .	04.65 C5.45	38	3 6	8.70 3.4	06.97	S . 4	252,99
	10,15	3	3	95.31	2000	10,1	410.31

TABLE F-32a

SUMMARY OF TOTAL PHOSPHORUS RUNOFF LOADS (LBS.)
PLAYA VISTA - SECOND PHASE PROJECT

	_									
Tributary	Industria	Commercial/R esidential	Commercial	Major Roadways	Open Water	Other or Unknown	High Density Residential	Low Density Residential	Open Space	
Name				R Surg	Runoff Coefficents	c ents				TP Loads
	0.80	08.0	0.80	0.80	0.80	08'0	080	0.38	0.24	Subtotals
1-10 Fire 0 0										
Proposed Project	6	8	9	ç	8	5	5	6	5	ć
First Phase	88	38	38	3 6	38	3 5	3 8	38	38	600
Off-site	30	800	800	3 6	300	3 6	3 6	38	0 0	27.0
Subtotal	0,0	0.00	00.0	5.27	0.00	000	00.0	000	70.6	9.23
Total Area - Former Area B										
Residential										
Proposed Project	0.00	9.00	0.00	000	9. S	83	80	0.00	80	0.00
First Phase	0.00	0.00	0.00	800	0.00	0.00	86.6	0.00	80	0.00
Off-site Total	S 8	၁၉ ၁၉ ၁၉	S 8	702.13	S <b>6</b>	00°0	88		7,158,48	9.23 9.33
Ballona Wetlands									ĺ	
East Wetlands	<b></b> .								•	
Proposec Project	3,0	00'0	00:0	00.0	0.00	00:0	0000	0.0	00.0	0.00
First Phase	00'0	0.00	00:0	000	0.00	80	90.0	00'0	0.0	0,00
Off-site	0 0 0	00.0	00:0	88	3	8	0.00	6.52	6.65	14.94
Suprotal	0,00	00.0	0.60	1.38	0,00	000	800	6.92	6.65	14.94
South Wetlands	Ç	ç	ć	8	ç	8	ç	(	ć	į
Special of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	3 0	000	30	3 8	3 8	3 6	300	3 8	38	8 6
Off-site	8	0.00	2.58	2.17	800	88	5.25	30.00	939	43.75
Subtotal	0.00	0.00	2,98	2.17	00.0	00.0	5.25	30.00	3,35	43.75
North Wetlands										
Proposed Project	8 6	0.00	900	0.00	8	8	9.00	0.00	8	0.0
	3 6	6.60	3;	0.00	00.0	9 6	0.00	0 6	8:	00'0
Subtotal	800	00.0	: u,	2 60	300	38	000	1.24		9.00 6.00 6.00 6.00
Total Area - Ballona Wetlands									:	
Inducary Proposed Digital	5		5	6	5	5	0	ç	ç	é
First Phase	88	800	88	8 6	8 8	3 8	30	38	8 6	8 8
Off-site	8 0	83	9 42	7.23	8 8	88	250	38.15	08.61	78.33
Total	0.00	0.00	8,42	7.20	0.00	0.00	5.26	38.15	19.30	78.33
Total Area - South of Ballona										
Proposed Project	8	15.54	0.0	3	9 0	90.0	32.49	9.0	1.42	49.44
First Phase	8	000	117.99	0.17	90.0	0.00	52.78		4.90	175.87
OH-6119	42.67	00.0	95,58	743.99	8 8	0.03	13.36	114,66	7,181.57	340.55
lotal	44.07	15.54	213.00	f 44, 10	30.00	0.00	98,63	┪	7,187.59	565.87

## TABLE F-32b

# SUMMARY OF TOTAL PHOSPHORUS REMOVED (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

-i-ibutary	ndustrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	Other of Unknown	High Density Resident al	High Density Low Density Residential Residential	Ореп	
Vame				Runoffic	oefficien	ts				TP Loads
	08.0	0.80	08.0	0.90 0.80	0.80	0.80	08.5	3.38	C.2¢	Subtotals
Freshwater Marsh Ribarian Coridor at Proposed Project	•									
Boundary										
Proposed Project (Onsite Biofilters)	0.00	0.00	9000	98.0	0.00	0.00	00.0	900	00.0	0.00
First Phase	0.00	0.00	900	80.0	0.00	CO:0	00:0	8 0	C.C3	00.0
Off-site	8.6	0.00	000	900	8.0	8.6	8.6	88	800	0,00
Riberian Corridor at Lincoln	00.0	0.00	20.0	00.0	BO:0	0.00	0.00	0.00	200	00.00
Description Officer At Library	ç	S	8	8	0	0	6	8	6	4
Eight Dhoso	300	5 6	38	38	8 8	000	00.0	2 6	3 8	00.0
Pagil Sal	0.00	0.00	3 5	30.5	0.0	0,0	00.0	3 (	3 (	00'0
Subtotal	0.00	0 <b>6</b>	2 <b>8</b>	2 6	9 6	200	00.0	0 6	8 2	860
Total Ribarian Corridor Tributary					•		3			
Area	0.00	0.00	0.00	00.0	0.00	0.00	00'0	00.0	00.0	0.00
Central Storm Drain										
Proposed Project (Onsite Biofilters)	0.00	0.00	9.00	0.00	0.00	0.00	9C 0	00'0	800	00'0
First Phase	0.00	0.00	0.0	90.0	0.00	6.63	0C C	0.00	80	0.00
Off-site (Lincoln Blvd Bioswales)	0.00	80.0	20:0	0.00	0.00	0.00	0C C	8.0	80	0.00
Subtota	0.00	0.00	0.00	000	8	0,00	0.00	00'0	0.00	0.00
Certerson Storm Crain		3	(	Č	0	0	ć	<	8	
Piccount of act	36	88	30.0	3 6	300	900	3 8	3 6	3 8	9.0
	3 8	655	300	3 6	3 8	38	3 8	3 8	3 8	9.6
Subtotal	0.00	8 6	2 6	3 6	0.00	900	3 6	3.5	3 8	8.6
Lincoln Storm Drain . South	2				7,		200	3		
Proposed Project	0.00	0.00	0.00	0.00	0.00	00'0	80	000	800	00.0
First Phase	0.00	00.0	0.00	0.00	0.00	00.0	800	8	80	00.00
Off-site (ODS Unit)	0.00	0.00	0.00	0.00	0.00	00.0	0000	0.00	000	0,00
Subtotal	0.00	0.00	0.00	0.00	0.00	0,00	00.00	90.0	90.0	00.0
Freshwater Wettands	00 0	ć	000	9	8	ć	6		2	c c
First Dasse	800	999	86	38	8 8	88	3 6	3 5	38	3 8
Off-site	00.0	00.0	00.0	8	8	00:0	86	0.00	000	00.0
Subfotal	0.00	0.00	0.0	00.0	0.00	00.0	0.00	00'0	00.0	0.00
Total Area - Freshwater Marsh Telephone										
Proposed Project	0.00	000	000	5	8	00.0	000	00.0	5	90
First Phase	99	00:0	00.0	8,8	000	8 8	88	000	8	000
Off-site	00.0	00:0	0.00	0.00	80.0	80	00:0	00.00	90.0	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0	0.00	0.00

### TABLE F-32b

# SUMMARY OF TOTAL PHOSPHORUS REMOVED (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

: 1	ndustra	Commercial/R esidential	Commercial	Major Roadways	Open	Other or Unknown	High Density Res dent at	Low Dens.ty Residential	Space	
λιαρη( ψυτην										
D :: 07				Runoff	Runoff Coefficients					TP Loads
	0.80	08'0	0 BO	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
Former Area B Residential										
Proposed Project	0.00	0.00	800	8.0	0.00	0.00	800	800	90.0	00,0
First Phase	00.0	60.0	800	90.00	900	00.00	000	000	900	0.00
Off-site	0.00	0.00	00.0	90.00	000	9	000	000	8	00.0
Subtota	0.00	000	9,0	0.00	00.0	0.00	00.0	000	8	90.0
Total Area - Former Area B										
Residential										
Proceed Project	0.00	0.00	00.00	0 00	000	000	000	900	8	8
First Phase	0.00	80	000	00.0	800	000	88	200	3 8	9 6
Off-site	0.00	00'0	0.00	0,00	0.0	0.00	8	8	800	0.0
Total	0.00	0.00	0.00	00'0	0.00	0.00	00.0	00.0	800	0.00
Ballona Wetlands										
East Wetlands	0.00	6.00	000	0.00	0.00	0.00	000	0.00	8	00 0
Proposed Project	000	000	000	000	000	00 0	900	0.00	200	90
First Dasse	3	000	000	800	800	000	2	200	8 8	86
Off-sile	00'0	00'0	0.00	000	000	0,00	00.0	0.00	000	00.0
Subtotal										
South Wetlands										
Proposed Project	00.0	00.0	0.00	0.00	0.00	00'0	00.00	000	0.00	90.0
First Phase	00:0	80.0	0.00	0.00	3	00:0	00.0	0.00	00.0	90.0
Cff-sile	800	0.00	00.00	0.00	000	00.0	0.00	00'0	0.00	00'0
Sublotai	0.00	0.00	0.00	00.0	0,00	0.00	00.0	0.00	0.00	00.0
North Wetlands										
Proposed Project	00.0	000	0.00	00:00	0.00	00.0	0.00	0.00	0.00	0.00
First Phase	0.00	80	0.03	00.0	00.0	0.0	00.0	0.00	0.00	0.00
C'f-site	0.00	000	6,63	00.0	00'0	0.0	0.00	0.00	0.00	0.00
Subtotal	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	00.00
Telement Ballona Wetlands										
Droposed Draied	5	8	ć		6	8	ć		6	4
Tri Phase	38	3 8	3 5	3 5	3 6	3.8	000	8 8	3 8	000
	88	38	3 5	3 6	3 6	38	600	3 8	5 6	3.0
Total	000	000	000	00.0	3 6	38	000	8 6	3 6	80.0
					I				1	
Total Area - South of Ballona Channel										
Proposed Project	90.0	0.00	0000	000	900	00.0	00.0	00.0	6,00	0.00
First Phase	000	000	00.0	600	8	000	9	. 0	5	8
Off-site	90,0	00.0	88	88	88	800	800	8 8	88	00.0
Total	0.00	00'0	0.00	00.0	90.0	0.00	0.00	00'0	00.0	0.00

#### TABLE F-33a

# SUMMARY OF TOTAL KJELDAHL NITROGEN RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Prepare Hybrid	Tribulary	Incustrial	Commercial/R esidentia.	Commercial	Major Roadways	Open Water	Other or Unknown	High Density Residential	_ow Density Residential	Open Space	!	_
Parallel Marsh   1900	Name	90	000		Runoff	Coeffici	ar.'s				TKN Loads	
Water Markh         Market Markh         CCO         CCO         OD         SS 10         ODC         A 71           At Boundary Lancella         0.00         2.7.41         CCO         CCO         OD         CCO         CCO         A 71           Assel Project         0.00         0.00         0.00         CCO         CCO         CCO         A 71           Assel Project         0.00         0.00         CCO		) B()	U.80	0,80	0.80	0.80	0.83	0.50	0.38	5.24	Subtotals	
Operation of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the sear	Freshwater Marsh Riparian Corridor at Proposed											
esd Project         0.00         4.13-4         C.CO         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Project Boundary						. · ••					_
these	Proposed Project	8	41,34	000	00.0	900	0.00	55 10	000	25	115.28	_
September   0.25   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.	:s: Phase	8	8	15,72	80	8	000	00.0	0.00	4	476.13	
table Confider at Lincoln  and Confider at Lincoln  by Septed Confider at Lincoln  confider at Lincoln  by Septed Confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at Lincoln  confider at	Off-site	83.°°	800	458.58	80,1	0,00	3	8	223.67	29 43	713,02	
and Confider at Lincoln         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.	Subtotal	0.29	41.34	930,00	1.00	0.00	0.00	65,10	223,67	43.03	1,304.43	
sed Priject         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Riparian Corridor at Lincoln											
Hase	Proposed Project	0.00	80	00'0	00.0	0.00	0.00	0.00	0.00	800	0.00	
ea         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         114,12         57.09         11.04           Reparam Corridor Tributary         0.29         41,34         1,146.82         1.00         0.00         0.00         119,22         27.09         11.04           Al Storm Drain         0.00         77.86         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00<	irst Phase	800	00.0	98,43	00.0	0.00	0.00	114.12	0.00	11.04	223.59	
State   Contribution   Contributio	Off-site	0.00	90.0	118.49	80.0	0.00	0.00	00:0	67.08	0.00	175,59	
Storm Drain   Corridor Tributary   Corr	Subtotal		00'0	216.92	0.00	0.00	0.00	114.12	57.09	1,04	399,18	
Storm Drain   0.29   41.34   1,146.92   1.00   0.00   0.00   179.22   220.77   54.05	otal Riparian Corridor Tributary								·			
National Position   0.00C   77.86   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000   0.000	Vrea	0.29	41.34	1,146.92	1,00	0.00	0.00	179.22	280.77	54,08	1,703,61	
teat	Sentral Storm Drain Pocosec Project	0.00	77 86	000	ψυ	0.00	0.0	182 20		2 33	262.38	
ethon of search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of the search of th	irst Phase	000	000	25140	0	0	900	97879	3 6	η α Τ	478.34	
tal         0.05         77.86         251.40         18.14         0.00         6.00         400.88         0.00         1.04           sen Storm Drain         0.00         1.11         0.00         0.00         1.11         0.00         0.00         1.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00 <td>off-site</td> <td>0.05</td> <td>200</td> <td>000</td> <td>18 14 41 81</td> <td>000</td> <td>88</td> <td>000</td> <td>99</td> <td>2 6</td> <td>18.19</td> <td></td>	off-site	0.05	200	000	18 14 41 81	000	88	000	99	2 6	18.19	
sed Project         0.00         1.11         0.00         0.00         1.37         0.00         0.00           sed Project         0.00         1.11         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	ubtotal	0.0	77.86	251.40	4 14	00.0	0.0	400,98	000	10.46	756.68	
sed Project         0.00         1.11         0.00         0.01         1.37         0.00         0.00           f see         0.00         0.00         0.00         0.00         0.00         0.00         1.14           f see         0.00         0.00         77.50         96.52         0.00         71.12         0.00         1.14           tal         1.15.5         1.11         176.48         90.62         0.00         1.07         1.14         0.00           sed Project         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	efferson Storm Drain											
Figure 1	roposed Project	0.00	£.;	8 6	000	0.00	00'0	137	0.0	0.00	2.48	
e         315 85         0.00         77.50         90.62         0.00         0.00         169.54         1.62         0.38         1.62         0.00         0.00         169.54         1.62         0.38         1.62         0.00         0.00         1.62         0.00         0.00         1.62         0.00         0.00         1.62         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	irsi Prase	00.0	0.00	98.56	800	0.00	00'0	71.12	0.0	4	170.82	
tal         143.85         1,11         176.46         90,62         0,00         0,00         107.56         169.54         1,52           nn Storm Drain - South         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00         0,00 <t< td=""><td>/ff-site</td><td>316 85</td><td>0.00</td><td>77.90</td><td>90.62</td><td>0.00</td><td>800</td><td>35.03</td><td>169.54</td><td>0.38</td><td>589,37</td><td></td></t<>	/ff-site	316 85	0.00	77.90	90.62	0.00	800	35.03	169.54	0.38	589,37	
In Storm Drain - South         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.0	ubtotal	315.85	1.11	176.46	90.62	00.0	0.00	107.55	169.54	1.52	862,67	
Sed Project         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Jacola Storm Drain - South											
Fase 6.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	'oposed Project	000	9. 9.	80	8	000	8	80	S	000	000	
tal         0.00         0.00         25 26         1375         0.00         0.00         26 33         135.30         0.00           tal         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Irst Prase	9.0	0.00	86.0	8	0.0	00.0	000	8.0	0.16	0.15	
tail         0.00         0.00         25.26         13.75         0.00         0.00         25.26         13.75         0.00         0.00         0.05         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00		0.00	0.00	25 26	13.75	0.0	800	26 93	135.30	0.00	201.26	
water Wetlands         Outcome (Company)	ubtotal	0.00	0.0	25.25	13.75	80.0	8	26.93	135,30	0,13	201.40	
Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Passe   Pass	reshwater Wetlands	5	0	8	5	Ç	-	6	i i		;	
Hase 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.		3 6	3.6	33	3 1	3	3 1	3	3 :	000	90.0	
tai         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.01         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00		3	30.5	3	0.62	8	 B	90.0	C.13	13.44	14.24	
tai         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.13         13.44           Area - Freshwater Marsh         Area - Freshwater Marsh         Area - Freshwater Marsh         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	H-site	0.00	000	000	90.0	00.0	000	20 0	9	8	0.00	
Area - Freshwater Marsh ary 6.00 12031 0.00 0.00 0.00 0.00 228.66 0.00 11.17 sed Project 0.00 0.00 915.80 0.62 0.00 0.00 404.02 0.18 38.62 nase 0.00 0.00 880.24 123.52 0.00 0.00 62.01 585.61 29.86 316.18 120.31 1,600.04 124.14 0.00 0.00 714,69 585.79 79.65	ubtotal	0.00	0.00	0.00	0.62	000	800	0.00	81,0	13.44	14.24	
ary sed Project 6.00 1.20.31 0.0C 0.0C 0.0C 0.0O 2.28.66 0.0O 11.17 as 62 0.0O 0.00 0.0O 0.0O 0.0O 0.0O 0.0C 0.0O 0.0O	otal Area - Freshwater Marsh											
Red Project         0.00         0.00         0.00         0.00         0.00         0.00         11.17           hase         0.00         0.00         919         0.00         0.00         404.02         0.18         33.62           316.19         0.00         6.00         0.00         62.01         585.61         29.86           316.19         120.31         1,600.04         124.14         0.00         714,69         585.79         79.65	ributary			:								
Tase C.00 0.00 919.80 0.62 0.00 404.02 0.18 33.62 3.45 0.00 0.00 404.02 0.18 33.62 0.00 0.00 62.01 58.561 29.86 0.00 0.00 7.14,69 585.79 73.65	reposed Project	8.0	120.31	9.00	9.00	80.0	8	248.66	8:0	11.17	380.14	
315.19 0.00 680.24 123.52 0.00 0.00 62.01 585.61 29.86 316.19 120.31 1,600.04 124.14 0.00 0.00 714,69 585.79 79.65	irst = hase	8	000	915.80	0,62	8	90°C	404.02	0 4	38.62	1,363.24	
310,18 310,19 1,000.18 128,14 0.00 0.00 118,09 79.65		315.18	3.5	53C.24	123.52	88	88	62.01	585.61	29.86	1,797.43	
	ola)	210.18	120.31	1,500.04	124.14	3	3	714.69	565.79	79.65	3,540,81	

TABLE F-33a

# SUMMARY OF TOTAL KJELDAHL NITROGEN RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

							1				
Yahrdr: 7	Incustrial	Commercial/R esidentia	Ocmmercal	Major Roadways	Open Water	Other or Unknown	High Density Residential	Low Density Residential	Open		
Name				Runoff Coefficients	Coefficie	ints ints				TKN Loads	_
	08.0	08.0	0.80	0.83	0.90	0.30	0.83	0.38	0 24 44	Subtotals	_
Former Area B Residential											_
Proposed Project	90'6	000	0.00	0.0	90.0	00.0	0.00	0.00	00.0	00.0	_
First Phase	88	98	88	0.00	88	00.0	80.0	900	გ ი 7	00,0	
Subtotal	8 8	3 <b>0</b>	S 00:0	18.76	38	800	000	3 0	31.23	90.06 90.00	-
Total Area - Former Area B											
Residential				•							_
Proposed Project	8.0	8	00.0	800	8	0.00	0.00	00'0	00.0	00'0	
FIRST PRIZE	000	8 8	800	9 : 0 :	20.0	0.00	0.00	0.00	8	0.00	_
C7-sile	3 <b>8</b>	2 <b>2</b>	0 <b>6</b>	18,76	88	88	35	00.0	3123	50,00 50,00	
					I						
Rationa Wattende					Ī						_
East Wotlands										,	
Proposed Project	0.00	800	00.0	000	900	000	00.0	0.00	8	8	
First Phase	0.00	0.00	00:0	8	8	0.0	00.0	0.00	8	00	
O'f-site	0.0	8.0	00:0	4.92	0.00	0.00	00:0	52,93	62 38	110,23	
Subtotal	0.00	0.00	00'0	4.92	89	0.00	0.00	52,93	52,38	110,23	
South Wedands		8	6	ć	2	5	ć	6	8	ě	
First Phase	3 6	3.8	86	3 5	3 6	3 6	36	600	38	9 9 5 6	
Off-site	300	86	23.23	) L-	3 8	800	20.5	2000	3 %	327.19	_
Subtotal	0.00	0.00	23,23	7.74	0.00	0.00	40.21	229.61	26.40	327.19	_
North Wetlands											_
Proposed Project	0.00	000	86	8	0.00	C0.0	00'0	0.00	90.0	0.00	
F 3: F1856	000	3 6	3 ?	10.03	3 6	3.6	8 6	86	9 ; 2 ;	0.00	
Subtotal	000	300	42.44	12.97	000	800	3 6	. S	73.25	138.20	
Total Area - Ballona Wetlands											
I ri butary	Ç	ç	ç.		;	;				:	_
Proposed Project	3 6	200	88	9 6	8 8	88	2 6	88	20.0	0.0	
Off-site	0.0	8	<b>6</b> 5 86	25.64	8	800	40.25	292.05	52.02	575.62	_
Totai	0.00	0.00	65.66	25,64	0.00	0.00	40,25	292,05	152.02	575.62	_
											_
Total Area - South of Ballona											_
Channel		;		1						,	_
Proposed Project	00.0	120.31	0.00	8.	0.0	8	243,65	00.0	11.17	380.14	_
First Phase	00.0	8.0	919,80	0.62	8.6	80.0	404.02	0.18	38.62	1,363.24	_
Cirste Total	345.19	120.31	1.665.70	167.92	900	8 8	102,26	877.66	213.12	2,423.04	
100		1 40 4 1 1 1	1 W V V 1	. Activa	,	,		20112	AVE	41.00.14	_

#### TABLE F-33b

# SUMMARY OF TOTAL KJELDAHL NITROGEN REMOVED (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Tributary	Industrial	Commercial/R esicential	Commercia	Major Rosdways	Open Water	Other or Unknown	High Density Residential	_ow Density Residential	Open	
Мате				Runcif (	Runcif Coefficients	als.				TKN Loads
	0.80	08'0	0.80	0.80	08.0	C.80	0.30	0.38	0.24	Subtotals
Freshwater Marsh Ripadan Coridor at Proposed Project Reported										
Proposed Project (Onsite Biofitters)	00.0	-11 22	0.00	8.5	00.0	00.0	-2.25	0.00	0.00	-13,47
First Phase	00.0	8	0.00	00'0	0.00	80	0.00	0.00	0.00	00.00
Subtotal	8 6 6 8	۶ <b>۲</b>	0.00 <b>0.00</b>	0 <b>6</b>	0.00	8 <b>8</b>	0.00	88	0.0	0,00
Riparlan Corridor at Lincoln									3	1.0
Proposed Project	000	90°0	05.0	Э С с	ලි ර	0000	0.00	0.00	00.0	0.0
Official Control of the House	8 8	9 6 6 6	000	000	<u>ලි</u> දි	00.0	0.00	0.00	8	0.00
Subtotal	00.0	9.00	800	9.00 6.00	88	88	0 <b>8</b>	S 8	8 8 8	0.00
Total Riparian Corridor Tributary Area	0.00	-41.22	000	Se c	8	000	30.0		8	* 2 C F
Central Storm Drain				3		20.0	27.7	30.0	3	19.4
Proposed Project (Chatte Bicfillers)	000	-10.68	000	00.0	00'0	0.00	φ •	000	000	-13.85
First Phase	0.00	0.00	80	90.0	90.0	0.00	00.0	800	900	0.00
Off-site (Lincoln Blvd Bioswaies)	88	00:00	8	20'0	000	0.0	0.00	000	000	0.00
Jefferson Storm Drain	00.0	90°01-	0.00	0.00	8	00.0	2	06,0	0.00	-13.85
Proposed Project	000	0.00	000	0.00	000	000	900	8	5	000
First Phase	0.00	0.00	8	0.00	00.00	0.0	88	200	88	000
Off-site	0.00	0.00	00.0	0.00	0.00	0.00	800	90.0	8	00.0
	0.00	0.00	0.00	0.00	0.00	0.00	0,00	0.00	9.00	0.00
Lincoln Storm Drain - South	ç	e u	•			:	-			
First phase	3 5	3 5	3,6	38	0.00	3 6	88	200	88	0.00
Off-site (CDS Unit)	80.0	30	9.6	000	38	38	38	88	3 6	3 5
Subtotal	0.00	00.0	6.94	0.00	00'0	00.0	8	000	3 8	9 6
Freshwafer Wetlands										
Proposed Project	800	00:0	0.00	00.0	60.0	00.0	0.00	0.00	0.00	90.0
FIRST FINESE	000	8	0.00	0.0	8.0	<b>0</b> 00	0.00	0.00	0.00	90.0
Citation	000	8 :	0.00	000	8	000	000	0.00	0.00	00.0
Subtotal	0.00	0.00	0.00	00'0	8	00.0	0.00	0.00	0.00	0.00
lotal Area - Freshwater Marsh Tributary										
Proposed Project	0000	000	00.0	000	0000	5	5	ن	9	000
First Phase	000	90.0	85	000	88	8 6	800	88	883	000
Of-site	90.0	0.00	00:0	00.0	8.	90.0	0.00	00.0	00.0	0.00
lotal	00.0	0.00	0,00	0.00	00.0	0.00	0.00	0.00	0.00	0.00

#### TABLE F-33b

# SUMMARY OF TOTAL KJELDAHL NITROGEN REMOVED (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

: Yebotary	Incustrial	Commercia /R esidential	Commercial	Major Roadways	Open Water	Other of Unknown	High Density I Residential	Low Density. Residential	Crem Space	
Varie				Runoff (	Runoff Coefficients	ts				TKN Loads
	0.80	080	0.80	08.0	0.80	0.00	0.80	C.38	0.24	Subtotals
Former Area B Residential										
Proposed Project	3 8	9 8	0.00	00:0	8	8	<b>c</b> 0.0	80.0	CO.D	0.0
	8 1	8 :	6.00	000	S C	900	0.00	<b>6</b> 00	S	0.00
Of-site Subtracti	88	88	G 6	88	88	200	0.00	8 :	8.0	0.00
Rigina	8	00.00	00.0	0.00	8	0.00	0.00	00.0	00'0	0.00
Total Area - Former Area B Residential										
5		500	00.0	8	8	ç	ć	6		Č
First Phase	200	36	850	38	3 8	8,0	300	3 8	3 6	000
01:30	200	500	3 5	886	3 6	8.6	9 5	3 8	3 6	0.00
Total	000	38	800	88	3 6	3 5	000	38	3 6	0.0
		2010	2	20.5	2	9.0	09,0	20.70	3	0.00
Rallona Wetlands									Ī	
East Wetlands	000	90.00	ç	50		6		8	ć	ó
Proposed Project	8 8	800	80	30	3 6	80	90.0	38	9 6	60.0
First Phase	0.00	900	800	0.00	000	0.00	800	200	3 6	9.0
Off-site	0.00	0.00	00'0	000	00.0	000	00.0	800	3 6	6
Subtotal										
South Wetlands										
Proposed Project	0.00	0.00	800	0,00	0.00	0.00	000	0.00	00.0	0,00
First Phase	0.00	0.00	80	0.00	0.00	0.00	8	0.00	0.00	0.00
Off-6:0	00'0	0.00	8	0.00	0.00	0.00	800	0.00	8.0	0.00
Subtotal	0.00	0.00	0.00	0.00	0.00	0,00	0.00	0.00	0.0	0.00
North Wetlands										
Proposed Project	8.0	0.00	800	0.00	0.00	0.00	800	0.00	000	0.00
TIRS THASE	8:0	95	00.0	0.00	8	0.00	8	0.00	90.0	00'0
	38	000	200	8 6	0.00	8	20.00	0.00	8	0.00
	3	0.00	90.0	0,0	0.00	0.00	00.00	0.00	00'0	0.00
Total Area - Ballons Wetlands					Ī					
Tributary										
Proposed Project	83.5	00.0	0.00	833	00.0	8	0.00	00:00	000	00.0
First Phase	00:00	00.0	00.0	80.0	00.0	8	0.00	0	000	90
Off-sile	0.00	00.0	0.00	0.0	00.0	8	0.00	8	0.00	8
Total	0.00	0.00	0.00	0.00	0.00	00.0	0.00	00.0	00.0	80.0
Total Area - South of Ballona Channal										
	0000	00.0	00:0	000	90	5	Û	6	5	6
First Phase	000	20.0	90	6	2	000	) (C	8 6	3 6	
Off-site	8	80.0	00'0	8	8	000	80.0	80	3 6	000
Total	0.00	0.00	00.0	00.00	90.0	0.00	00.0	900	000	000

TABLE F-34a

## SUMMARY OF OIL AND GREASE RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Formar Araa B Rasidential   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	Tributary	Industrial	Sommercial/R Commercial	Commercial	Major Open Roadways Water	Open Water	Other or Uhknown	Other or High Density Unknown Residential	Low Density Residential	Coen	
Area B Residential   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	Name				Runoff Coefficients	Coefficie	afs				O&G Loads
r Area B Residential  see  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.		08.C	08 C	⊃8¢	0.80	0.80	0.80	0.80	0.38	0.24	Subtotals
a Wedands    Cooperations Wedands   Cooperations	ner Area B Residential										
New Color	sed Project		00.0	0.00	0.00	0,00	0.00	0.00	0.00	000	0.00
1	- Jase	20.0	90.0	90.0	0.0	0.00	00.0	0.00	0.00	800	0,00
tal Former Area B  total  total  a Wedands  d Project  c Project  d Project  c Project  d Project  d Project  c Project  d Project  c Project  d Project  d Project  c Project  d Project  d Project  c Project  d Project  c CCO  c CO  c C	Te oxtal	9 8	88	8.8	65.24	8.8	86	(O) 6	0.00	88	55.24
### ### ### ### ### #### #### ########	Area - Former Area B	35	20,00	8	13.64	30.0	0.0	00'0	0.00	00.0	55.24
See   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0	lentlal				•						
### Wed and s  # Cool	sed Project	0.00	0.00	0.00	0.00	0.00	0.00	00'0	0.00	0000	0.00
# Wedfands  # Wedfands  # Wedfands  # Project  # Projec	Chase	00.0	0.00	0.00	800	0.00	0.00	00.0	0.00	90'0	00'0
# Wedands  # Wedands  # Wedands  # Wedands  # Project    0.00	<u> </u>	3 8	00.0 00.0	0.0	55.24 55.24	0.0	0.00	S <b>S</b>	0:00 <b>0:0</b> 0	88	55.24
# Wedands  # Wedands  # Wedands  # Project    0.00											
### ### ### ### ### ### ### ### ### ##	ona Wedands										
See   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0	Wetlands										
1000	sed Project	8	0.00	0.00	80	0.00	000	0.00	0.0	0.00	00.0
1	nase	0.00	0.00	9.0	ි උ	3	8	200	00'0	0.00	0.00
Separate	e contraction of the contraction	20.00	9 <b>8</b>	9.0	14.48	88	S <b>S</b>	98	38.02	0.00	52.51 5.51
C Project	Wetlands		,		2	3	3	3	30.02	00.0	15.26
see CCO CCO CCO CCO CCO CCO CCO CCO CCO C	sec Project	0.00	00.0	00:0	800	0.00	0.00	80	00.0	0.00	0.00
C.00 C.00 24.45	Shase	000	00.0	8.3	000	0.00	0.00	0C.C	00.0	0.00	0.00
etlands  C.00  C.0	<u>.</u>	0.0	00.0	24.45	22 80	80.0	00 0	26.83	164.94	0.00	241.08
A Project C.00 C.00 0.00  see 0.00 0.00 0.00  sea · Ballona Wetlands  D.00 0.00 44.69  aa · Ballona Wetlands  D.00 0.00 44.69  aa · Ballona Wetlands  D.00 0.00 0.00  Be 0.00 0.00 69.74  C.00 0.00 69.74  A Project 0.00 111.88 0.00  Se 0.00 111.88 0.00	) (3) - 41 - 42	00.0	0.00	24.45	22.60	8	8,0	28.63	164.94	0.00	241.08
se - Saliona Wedands  aa - Saliona Wedands  ba - South of Ballona  ba - South of Ballona  ba - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona  se - South of Ballona	ryedands sed Project	2	2	6	5	8	ć	e e	ć		
ea - Bailona Wedands  y  d = coject  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00	Phase	90	00.0	8 6	3 6	3 6	3 8	38	3.8	0.0	0.0
9a · Bailona Wedands  y y y y y d ⊃ ojec; 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	, ti	8	800	24.69	38.20	88	88	38	3 8	3 3	0000
6a - Bailona Wedands  y  y  y  y  y  y  y  y  y  y  y  y  y	ıtal	0.00	0.00	44.69	38.20	8	8	0.03	6.83	000	89.74
y  y  y  d ≥ ojec;  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00  0.00											
a South of Baltona  d Project 0.00 0.00 0.00 0.00  d Project 0.00 111.88 0.00  se 236.34 0.00 785.44	Afea - Callona Wedands farv		•								
se 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	sed Project	000	80	000	90	9	0.00	0.00	000	5	60.0
8a - South of Ballona  d Project 0.00 111.88 0.00  se 236.34 0.00 785.44	hase	90'0	00:00	000	0.00	8	0.00	000	000	88	200
8a - South of Ballona  GProject 0.00 111.88 0.00  Se 235.34 0.00 785.44	œ.	90.0	90.0	694	75.49	90.0	0.0	28.91	208 79	88	383.33
8a - South of Ballona  d Project 0.00 111.88 0.00  se 0.00 0.00 968.55 236.34 0.00 785.44		0.00	0.00	69.14	75.49	0.00	0.00	28.91	209.79	0.00	383,33
Be - South of Baltona    Project 0.00 111.88 0.00   Se 0.00 0.00 968.55											
Se 0.00 111.88 0.00 se 235.34 0.00 785.44	Area - South of Ballona		,,,								
Se 0.00 0.00 968.55 235.34 0.00 785.44 235.34 1.14 84 1.781 00	sed Project	0.00	111.88	0.00	0.00	0.0	2	178.62	9	8	200.50
235.34 0.00 785.44 235.34 1.00 785.44	es ed	5		90.00		3		00000	200	3 6	20.00
235 34 444 84 4 782 00	9	235.34	000	785.44	494.42	000	5 6	73.45	630.45	8 8	7,260.73
50:50:11		235.34	111.55	1,753.99	496.25	0.00	00.0	542.29	630.58	0,0	3,770.33

TABLE F-34a

## SUMMARY OF OIL AND GREASE RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Tributary	ndustrial	Commercial/R esidential	Ссттегсія	Major Roadways	Cper Water	Other or Unknown	High Density Residential	Low Censity Residential	Open Space	
hame				Runof Coefficients	eililie	nts				O&G Loads
	0.80	0.80	0.80	08'0	03.0	08.0	C.80	0.38	0.24	Subtotals
Freshwater Marsh Riparian Corridor at Proposed										
Proposed Project	00'0	38,44	0.00	00.0	0.00	8.0	46.75	0.00	0.00	85.21
First Phase	0.00	0.00	295.40	800	00.0	0.00	000	0.00	00.0	496.40
Off-site	0.22	00:0 2	282.89	2.85	0.0	85	000	160.67	0.00	546.72
Riparian Corridor at Lincoln	770	30.44	3/3.63	26.7	00'0	SA.	46.76	160.67	B0:0	1,228.33
Proposed Project	00.0	000	8	800	8	00.0	č	000	0	8
First Phase	88	000	103.64	8 8	800	8 8	8 6	86	8 6	185.62
Off-site	80	00.0	124.78	8	000	000	000	41.01	000	165,79
Subtotal		00.0	228.42	96.0	0.00	00'0	81.97	41.01	0.00	351,40
Total Kipanan Corndor Imbutary		7	72.200	4	6	ć			:	
Confession Construction	77.0	20,44	1,707	22.7	3	0.00	128.74	201.68	6.0	1,578.73
Proposed Project	000	72.47	9	5	5	Ş	190.00	ę	ć	400
First Phase	88	000	26.23	3 6	3 6	3 8	3 4	000	3 6	07,507
Off-site	8	ŝŝ	000	53.41	88	800	900	900	38	53.44
Subtotal	90.04	72.40	264.72	53.41	00.0	8	288,03	00'0	00.0	678.60
Jefferson Storm Drain										
Proposed Project	900	2	00 0	9.90	800	90'0	98.0	000	S	2.02
First Hoase	00.0	8	133,78	0.00	800	000	51.09	00 C	9.0	154.87
	236.09	000	82.03	266.83	8.8	81	25.20	121.78	00'5	730,94
Subjudge	530.03	8.	183.01	59.997	3	0.00	77.26	121.78	0.0	887,82
Lincoln Storm Drain - South	5	8	e e		5	3		;		
First Ohase	3 8	38	38	3 8	3 6	3 6	38	900	3 8	0.00
Off-site	0.0	3 0	26.50	25.0 <b>4</b>	3 6	3 8	2.55 3.55	3.75 9.75	3 6	183 64
Subtotal	0.00	00.0	26.60	40.50	00,0	000	19.35	97.19	00.0	183.64
Freshwater Wetlands			;							
Proposed Project	0.0	50.0	0.00	00:0	000	8	0.00	80.0	80	0,0
	3	0.00	0.00	1.83	8	6.0	0.0	0.13	00.0	1.97
Of-site	0.00	0.00	00.0	ი.ც	0.00	000	83	0.00	800	00'0
Subtotal	00'0	0.00	0.0	1.83	0.00	0.00	0,00	0.13	90.0	1.97
Total Area - Freshwater Marsh Tributary	-									
Proposed Project	3 (	11.88	6.63	0.00	<u>8</u>	8	178.62	0.00	8	290.50
FIRST Priase	3 2	0.00	968.55	8	8	8	290.22	0.13	0.00	1,260.73
	2000	50:0	36.67	363.69	8	8.8	4 5	420.56	20.0	1,780.53
	10000		1,044.05	20,000	3,	3	513.35	420.73	B) '0	3,331.75
						-			_	

#### TABLE F-34b

SUMMARY OF OIL AND GREASE REMOVED ON-SITE (LBS.)
PLAYA VISTA - SECOND PHASE PROJECT

Na Te   C   S	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	Aunoff Coefficients 0.60 0.00 0.00 0.00 0.00 0.00 0.00 0.0	2000 0.00 0.00 0.00 0.00 0.00 0.00 0.00	98. 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00.00 00	0.00 0.00 0.00 0.00	0.03		
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Area Page 6 00 00 00 00 00 00 00 00 00 00 00 00 0		300 000 000 000 000 000 000 000 000 000	00 00 00 00 00 00 00 00 00 00 00 00 00	000000000000000000000000000000000000000	0.00 0.00	0.00	0.00	00.00
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Area 6 00 00 00 00 00 00 00 00 00 00 00 00 0		300 <b>8</b>	00.00	00:00				
Area 6 00 00 00 00 00 00 00 00 00 00 00 00 0		0000	00.00	00.00	0.00	0.00	0.00	0.0
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288 <b>8</b> 888 <b>8</b> 88 600 <b>6</b> 600 <b>6</b>	1	2	0.00	00.0	0.00	0.00	0.00	000
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South 0.00		00:0	00.0	800	0.00	00:0	0.00	0.0
South South	00:0	c, 1	00.0	80	0.00	00.0	0.0	-7.19
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South 5000 0000 0000 0000 0000 0000 0000 00		88	000	0.00	DO: 0	00.0	8	00'0
South 9.00	000	3 6	8 1	86	3.00	0 (	3	0.00
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000		88	3 6	3 6	8.0	) ; ; ;	3 8	800
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20.0	+	0.00	96.90	8	0.00	0.80	0. 0.	0,00
l qia) Area - Freshwater Marsh Tributary								
rojest 0.00		00'0	90.00	800	0.00	000	00.0	0.00
0.0C		80.0	800	800	0.00	000	0.00	0.00
Off-site 0.00 0.00	00'0	8.0	8:0	8	00.0	9,00	0.00	0.00
	1	96.0	96. 0	90.0	0.00	00.0	0.00	0.00

TABLE F-34b

SUMMARY OF OIL AND GREASE REMOVED ON-SITE (LBS.)
PLAYA VISTA - SECOND PHASE PROJECT

Tributary	industrial	Commerc al/R esidential	Commercal	Major Roadways	Cper Water	Other or Unknown	High Density Residential	High Density Low Density Residential Residential	Open	
Name				Runoff	Runoff Coefficients	Į Į				OG Loads
	0.80	0.80	C,80	0.90	0.80	0.83	080	38.0	0.24	Subtotals
Former Area B Residential										
Proposed Project	0.00	0.00	00:0	0.00	0.03	0.00	0.00	00.0	0.00	0,00
First Phase	00.0	8	0.00	9 6	S	0.00	8	800	800	0.00
Cit-site Sublotal	000	0.00 0.00	00.5	0 6	8 8	88	88	88	8 8	8.6
Total Area - Former Area B										2
Residential										
Proposed Project	0.00	0.00	000	0.00	0.00	0.00	00.0	00.00	00.0	00'0
First Phase	0.00	0.00	000	0.00	8,0	0.0	00'0	00.0	800	0.00
O7-site	0.00	0.00	00:00	00'0	0.00	0.0	00.0	00.00	800	00.0
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00'0	00'0
Ballona Wetlands										
East Wetlands	0.00	000	80	0.00	0.00	0.00	00.0	0.00	800	00.0
Proposed Project	0.00	6.60	800	0.00	0.00	0.00	00.0	00:00	80	0.00
First Phase	0.00	0.00	80	00.0	8	0.0	0.00	0.00	8	00'0
O:f-site	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.0
Subtotal										٠,
South Wetlands										
Proposed Project	8,0	8:5	8 3	00.0	8	0.00	8	00.0	8	00.0
Hirst Phase	3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	3.6	) ()	00.0	3 8	0 6	8 6	90.6	8	00'0
	000	000	Š	0.00	3 8	3 6	000	28	9 6	00.0
Subtotal	0.00	00'0	0.00	0.00	3	0.00	00,0	6.0	3	0.00
North Wetlands		į	,	;	;	;	;	;	;	
Proposed Project	000	8 6	8 6 G 6	0.00	8 8	8 6	88	20.00	8 8	00.0
er of	33	88	38	60.0	3 8	00,0	00.0	300	38	900
Subtotal	0.00	00.0	8 8	80.0	000	00.0	8 0	0,0	8	8 8
Total Area - Ballona Wetlands									-	
Tributary	,						:			
Proposed Project	(C) (C)	8.5	2000	0.00	80.0	00.0	8	0.00	00.5	0.0
Tirst Phase	3 8	3 8	30.0	0.00	0.00	00'0	P G	00'0	8.8	0.00
O see	9 6	000	3 6	3 6	9 6	99	3 6	000	30.0	8 6
										3
Total Area - South of Ballona Channel		ļ		į		;				
Proposed Project	00.5	00:0	00:00	0.0	<u>ල</u>	0.00	90°	0,00	0.0	0.00
First Phase	800	0.00	0.00	8:0	် ဂ	000	900	0.00	0.0	0.00
Off-Site Total	0.6	88	00.0	0.6	8 6	8 6	88	00.0	0 5	0 0 0
	*****	4414	*****	2010	,	;	3	,	,	, ,

TABLE F-35a

## SUMMARY OF TOTAL COPPER RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Tiburary	Industrial	Commercial/R Commercial	Commercial	Major Roadways	Open Water	Cifrer or Unknown	High Density Res dentfal	Low Density Residentia	Open Space		
Varne	500	20 0	Se c	Runoff Coefficients	Soefficie	ents C an	0.60	0.30	234	TCu Loads	
	0.07	26.5	20.0	00.0	0.00	03.7	000	3	5	SHAIOLOIS	
Freshwater Marsh Riparian Corridor at Proposed											
Project Boundary	0	į			0	•	ç	ó	i		_
Proposed Project	3 3	3 S	5.5	3 8	3 8	3 5	9.0	000	8 8	0 F	
00 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	3 3	38	, ç	3 6	5 6	3 6	200	5 6	5 6		
Subtotal	000	38.0	10.39		800	8 8	9 9	. <u>1.3</u>	98.0	12.97	
Riparian Corridor at Lincoln											
Proposed Projec;	0.00	000	0.00	000	0.00	00'0	0.0	00.0	00.0	0.00	
First Phase	0.0	8.0	1.10	8:0	0.0	00'0	0.70	0.00	5.10	1.90	
Off-site	0.00	0.00	1.32	0.0	0.00	00.0	0.00	96.0	800	1.67	
Subtotal	0.00	00.0	2.42	0.00	0.00	0,0	0,70	0.35	0.10	3.57	
Total Riparian Corridor Tributary		;	;	,	;	;	;	į	;	;	
Area	00'0	0.39	12.81	0.03	0.00	0,00	1.10	1.72	6	16.54	
Central Storm Drain	;		4		;	4	4	;	;	1	
Proposad Project	38	2 8	20.00	3 3	3 8	3 6	7.5	000	2 C	7,86	
	3 3	3 8	20.0	9 6	33	3 8	<b>4</b> 8	300	5 6	77.0	
Septotal	3 8	3 5	20.00	8 6	90	3 6	2.46	000	3 6	5,00	
Jefferson Storm Drain											
Proposed Project	0.00	0.04	0.00	0.00	0.00	00.0	0.01	00.0	00.0	0.02	
F.s. Phase	8,0	00.0	1,10	00'0	3.0	00.0	0.44	00'0	0.04	1,55	
Off-site	3.85	0.00	0.87	2.82	0.00	0.0	0.22	<u>z</u> .	000	8,90	
Subtotal	3,85	0.01	1.97	2.92	0.00	89	99.0	1.04	<u>6</u>	10.45	
Lincoln Storm Drain - South											
Proposed Project	8	0.00	0.00	000	0.0	00.0	85	0.00	8	0.00	
Tigi Phase	3 8	5 8	999	3 3	00,0	8.8	2 C	0.00	9 8	000	
Subtotal	900	300	0.28	7	000	38	2.0	0.83	8 8	7.72	
Freshwater Wetlands											
Proposed Project	000	0.00	0.00	00.0	0.0	0.00	83	0.00	0.00	00.0	
First Phase	S).	0.00	0.00	C.02	000	00.0	00'0	0.00	0,72	9,14	
i i	ć	Ş		ć	6	6	ć	ć	6		
Or-site Subtotal	3 8	3 <b>8</b>	3 6	0.0	3 8	900	) () ()	000	3 6	0.00	
Total Area - Freshwater Marsh											
Tributary									·· <u>-</u> ·		
Proposed Project	85	1.12	0.00	80.0	0.00	000	1,52	0.00	0.0	2,75	
First Phase	0.0	90.0	10.27	C.02	00'0	000	2.48	0.00	0.35	13,12	
Of-site	3.85	0.0	7.60	86	800	88	86.9	 	25.5	19.67	
l Oral	2.63		۸۰٬۰	7,00		0.00	4,30	3.03	7	40.04	
				1							_

TABLE F-35a

## SUMMARY OF TOTAL COPPER RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Tributary	Industrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	Other or Unknown	High Density Residential	Low Density Residential	Cpen Space	
Name				Runof	Runof Coefficients	랿				TCu Loads
	0.80	0.80	0.80	0.80	08'0	0.80	0.80	0.38	0.24	Subtotals
Former Area B Residential									;	
Frocesa Frost	3 5	0.00	3 8	88	3 8	38	38	3 6	3 8	900
Off-n: associated the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	3 8	600	88	3 8	3 8	38	38	38	3 6	0.0
Subtotal	88	0.00	000	8.0	8	800	88	00.0	0.28	0.89
Total Area - Former Area B										
Residentlal										
Proposed Project	0.0	0.00	8.0	80	00.0	800	8	8.0	0.00	0.00
First Phase	80	0.00	8	0 0	00:0	90°C	800	0.00	0.00	0.00
Off-site :Total	00.0 00.0	6 <b>6</b>	0 <b>8</b>	702.13 <b>702.13</b>	8 8	8 6 6	88	88		68.0 68.0
Ballone Wetlands										
East Wetlands										
Proposed Project	8	000	8.0	80	0.0	900	8	0.0	3.	0.00
Hist Phase	දි දි ද	8	8 6	8.6	000	8 8	86	88	8 6	0.00
Subfotal	00.0	000	000	9 9	000	88	3 8	25.0	4.0	96.0
South Wetlands										
Proposed Project	00 C	0,00	0.0	00.0	0.00	00.0	800	00'0	80.0	0.00
Tirst Phase	88	8 8	5 6	90.6	00.0	88	8,6	S ;	88	0.00
Cn-Sije Subfotai	36	800	0.20	0.25	3 6	3 8	25.0	1 T T T	47.0	2.40
North Wetlands										
Proposed Project	000	00'0	00.0	90.0	900	800	00:00	00:0	8.0	0.00
First Phase	000	8.9	00.0	900	800	0.00	00.0	00'0	0.00	0.00
Off-site subtaces	88	ල <b>ද</b>	0.47	0.42	88	200	00.0	90'0	C.67	1.62
1000	P)	ONYO	P	0.40	3	3	3	99.9	20.0	70.1
Total Area - Ballona Wetlands										
Tributary					_					
Proposed Project	88	00.0	800	0.00	8 8	0.00	20.0	90.0	8	00'0
TIN TONGO	3 8	3 6	9.6	0.00	3 6	3 6	0.00	0 i	3 6	00.0
Ci-ste Total	38	00.0	0.73		8	000	6 <b>5</b>	5.7		4 4 9 0
Total Area - South of Ballona										
Proposed Project	90.0	1,12	00.0	0.00	8	0.0	55.		<del>인</del>	2.75
First Phase	8.6	00.0	10.27	0.02	0.00	0.0	2,48		0.35	13.12
Total	3,85	1.12	18.61	706.96	0.00	0.00	4.63	98.0	*******	41.41

#### TABLE F-36a

### SUMMARY OF TOTAL LEAD RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Freshwater Marsh   Freshwater Marsh   Freshwater Marsh   Freshwater Marsh   Freshwater Marsh   Freshwater Marsh   Freshwater Marsh   Freshwater Marsh   Freshwater Marsh   Freshwater Marsh   Freshwater Marsh   Freshwater Marsh   Freshwater Marsh   Freshwater Warlands   Doc CED   Doc OED   Doc O	Tribc.ary	Industria	Commercial/R esidentia:	Commercial	Major Roadways	Open Water	Other or Unknown	High Density Residential	Low Density Residential	Coen	
Name   Marsh   Name	Name				Rure	off Coeffi	cients				TPb Loads
Control of a Proposed   C 20   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00		0.80	C.80	0.80	0.90	08.0	0.60	0.80	3.38	C.24	Subtotals
A	Freshwater Marsh Riparlan Corridor at Proposed Project Boundary										
Corridor at Lincoln	Proposed Project	00.0	C.20	0.00	0000	0000	0.00	0.12	00.0	833	0.35
Corridor at Lincoln	First Phase	20.0	00.0	9.15 5.1	0.0	900	0.00	. 60.0	0000	C.C2	3.17
Corridor at Lincoln   Corridor at Lincoln   Corridor at Lincoln   Corridor at Lincoln   Corridor at Lincoln   Corridor at Lincoln   Corridor at Lincoln   Corridor at Lincoln   Corridor at Lincoln   Corridor at Lincoln   Corridor    Off-site	88	000	3.07	88	000	0.00	 0.6	0. c	0.5 2.5	3,57	
Storm Drain	Ribatian Cortidor at Uncoln	3	2	0.66	3	3	20.0	71.0	2	*	60'1
Storm Drain	Proposed Project	0.00	90.0	0.00	0.00	0.00	00.0	00.0	00:00	0.00	00.0
100   0.00   0.79   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0	First Phase	0.00	000	0.65	0.00	00'0	0.00	0.2	0.00	50.0	06.0
Storm Drain	Cf-site	0.00	900	0,79	0.00	90.0	3	0.00	0.10	0.00	68.0
Storm Drain   Control Fill   Contr	Subtotal	00'0	0.00	1,45	0.00	0.00	0.0 0	0.21	9.10	0.04	1.79
Storm Drain         0.00         0.36         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Area	0.00	0.20	7.67	0.00	0.00	0.00	0.32	<u>5</u>	0.18	<b>60</b>
Steplect	Central Storm Drain										
Storm Drain	Proposed Project	0,00	380	0.00	0.00	0.00	9.0	C.33	00.00	0.01	0.72
Storm Drain	First Phase	90.0	8 0	1.68	0 00	0.00	0.00	C.39	0.00	0.03	2.10
Storm Drain   0.00   0.38   1.68   0.06   0.00   0.00	Off-site	8:0	8 : a :	0.0	0.06	9	8.	00.0	00'0	000	90'0
A Project 0.00 0.01 0.00 0.00 0.00 0.00 0.00 0.0	Subtotal	90,0	0.38	1.68	0.06	0.00	ş	0.72	0.00	0.03	2.88
Storm Drain - South   0.00   0.01   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	Jefferson Storm Drain	6	6	0	6			Ç	;	4	4
Storm Drain - South 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Tropused Project	3 6		000	8 6	200	3 8		200	88	0.01
Storm Drain - South 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Off-site		86	90	500	3 8	3 6	) (d	200	3 6	0 6 6
Storm Drain - South         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00 </td <th>Subtotal</th> <td><u>بر</u></td> <td>6.0</td> <td>1.1</td> <td>0.30</td> <td>000</td> <td>800</td> <td>91.0</td> <td>0.30</td> <td><b>6.0</b></td> <td>8. 4 8.</td>	Subtotal	<u>بر</u>	6.0	1.1	0.30	000	800	91.0	0.30	<b>6.0</b>	8. 4 8.
Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second Second	Lincoln Storm Drain - South										
Second   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	Proposed Project	0.00	000	CO:0	0.00	00'0	8	00.0	0.00	8	0.00
1	First Phase	0.00	800	0.00	0.00	0.00	<sub>ට</sub>	00:0	0.00	0.00	0.0
# Freshwater Marsh	Off-site Subtotal	00.0	86	0.17 •	0.0 60.0	0.0	8 <b>2</b>	0.05	0.24	00.5	5 6 6 6 6
A Project 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Freshwater Wetlands						2 2	25.5			
100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	Proposed Project	0.00	000	0.00	0.00	0.00	00.0	00:0	0.00	00.0	0.00
1 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	First Phase	6.6	90.0	0.00	0.00	0.00	00'0	00 0	0.00	9 8	0.05
Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Com	Of-site	0.00	90:00	0:00	0.00	0.00	00.0	00.0	0.00	0000	0.00
y Y C Project 0.00 0.55 0.00 0.00 0.00 0.00 sse 2.5: 0.00 4.55 0.41 0.00 0.00 2.5: 0.05 4.55 0.41 0.00 0.00	Subtotal	0.00	0.00	0,00	0.00	0.0	0.00	0.00	0.00	0,04	0.05
C Project 0.00 0.05 C.C0 0.00 0.00 0.00 0.00 0.00	Total Area - Freshwater Marsh Tributary										
859 0.00 0.00 6.15 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Proposed Project	0.00	99.0	85	0.00	0.00	90 0	0.45	0.00	9.0	1.07
2.51 0.00 4.55 0.41 0.00 0.00 0.00 0.00 0.00	First Phase	0.0	0.00	6.15	0.00	0.00	000	0.73	0.03	0,13	7.01
10.0 0.00 1+10 0.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 1	Off-site	C. C	8	4.55		000	88		20.1 20.1	0,0	5.74 6.00
		5.7	200	7.0	***	70.0	80.0	1,40	20.1	97.0	10.61

#### TABLE F-36a

### SUMMARY OF TOTAL LEAD RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

					Ī					
Troutary	incustrial	Commercial/R esidential	Соттексів.	Major Roadways	Open Water	Other or Unknown	High Density Residential	Low Density Resident al	Open	
Name				Run	Runoff Coeffic ents	ents				TPb Loads
	08.0	0.60	0.30	0.80	08'0	0.30	0.80	0.33	0.24	Subtotals
Former Area B Residential						_				
Omposed Project	20	0.00	000	900	9	ن	0	9	0.00	00.6
Tirst Prase	800	000	200	00.0	800	900	000	<u> </u>	000	00.0
Off-site	88	33	) ) ) )	800	800	800	200	88	51.0	0.17
Subtotal	0.00	00.0	0.00	90.0	0,00	0.00	0.00	0.00	0.10	0.17
Total Area - Former Area B							•	:		
Residential	5	6	8	ć	6	8	8	3	-	ć
Trips Press	86	8.8	3 6	8 8	3 8	38	3 6	38	3 6	00.0
Off-site	00:0	00.0	0.00	702.13	00.0	00.00	00.0	0.00	7,158 48	0.17
Total	00'0	0.00	0.00	702.13	0.00	0.00	0.00	0.00	7,158.48	0.17
Ballona Wetlands										
East Wetlands	,	;	;	į	;	,	1	;		
Proposed Project	8.8	0.0	0.00 0.00	80.0	90.0	88	800	8.6	0.00	0.0
	3 6	000	) ()	3 6	3 6	3 8	3,6	96	0.00	9.6
Subtotal	8 8	00.0	00.0	0.02	000	800	80.0	0.0		0.28
South Wellands										
Proposed Project	8	0.00	0.00	00.0	0.00	800	0.00	0.00	80	0.00
First Phase	8 9	0.00	0.00	000	80.0	8	900	8.9	0.00	0.0
On-Site Subtotal	00.0	S <b>S</b>	0.16 3.6	8 6	900	2 6	0.03 0	0 0 4 0	50°°	0.75
North Wetlands	ŝ	2017	,		2	3	10,10	1.0	3	0
Proposed Project	ф О	0.00	0.00	000	00.0	0.00	0.00	00:0	00.0	00.0
First Phase	8 0	0.00	0.00	200	800	0.00	0.00	00.0	0.00	00.0
Off-sce Subtotal	8 8	8.6	0.28	3 S	88	9.6	8.5	0.02	0.24	و ا
		3	24.			3	2017	2312		20.0
Total Area - Bailona Wetlands										
Tributary	Š	i,	,	3	3		!	4	1	1
Proposed oject Circt Dhase	38	3 8	000	88	3 8	3 8	3 8	38	3 6	8 8
	3 8	3 6	0.00	3 8	3 8	3 8	260	900	000	00°0
Total	8 6	00.0	4.0	60,0	38	000	000	0.52	200	2 29.1
Total Area - South of Ballona										
Channel										
Proposed Project	90.0	0,59	0.00	90.0	8.0	0.00	0.45	0,00	0.04	1.07
First Phase	90.0	0.00	6.15	0.00	0.00	0.00	0.73	0.00	0.13	7.01
Off-site	5.5	00.0	4.99	702.63	8.6	0.0	0,18	55.	7,159.08	10.52
loral	4.3	60.0	11.14	( 04.503	20.70	0.00	1.30	1.30	7,103,44	18,50

### TABLE F-36b

### SUMMARY OF TOTAL LEAD REMOVED (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

-ibutary	  Industrial	Commercial/R esidential	Commercial	Major Roadways	Open Water	Other or Unknown	High Density Residential	Low Density Residential	Open Space		
e Lez				Runaff (	Runaff Coefficients	sle				TPb Loads	
	0 BO	0.80	0.80	0.80	08.0	0.80	0.90	0.38	0.24	Subtotals	
Freshwater Marsh Riparian Corridor at Proposed Project											
Boundary											
Proposed Houset (Onsite Biofilters)	8	0.01	0.0	0.0	8	8	8	8.0	8.0	-0.01	
First Phase	8 ;	0.00	0.00	000	8	000	800	00.0	0.00	00'0	
On-sie	88	20.00	000	8 5	8 6	88	88	88	88	0.00	
Rinarian Corridor at I Incoln	2		3	25.	3	3	8,0	90:0	3.0		
Proposed Pro ect	00.0	0.00	000	0.00	000	000	0.00	0.00	0.00	0.00	
First Phase	00.0	0.00	0.00	0.00	8	8	0.00	0.00	0.00	000	
Off-site	8	0.00	0.00	9;	8	86	0.00	0,00	0.00	0.00	
Subjecta	000	0.00	00.0	0.00	0.00	90.0	0.00	0.00	0.0	0.00	_
Total Riparian Corridor Tributary	;	,	,		;		,		į	,	
Area	00.0	-0.01	0,00	6,00	8	0.00	00.0	0.00	0.00	-0.01	
Central Storm Drain Proposed Prolect (Onsite Bloff ters)	800	-0.64	00.0	000	8	000	0.00	0.00	 (3).0	-0.01	
First Phase	0.00	0,00	00'0	00'0	80	90.00	0.00	0.00	0.00	0.00	
Off-site (_incoln Blvd Bioswales)	000	0.00	0.00	00.0	00.0	0.00	0.00	0.00	0.00	0.00	
Subtotai	0.00	-0.01	0.00	00.0	0.00	0.00	0.00	0,00	0.00	-0.01	
Jefferson Storm Drain											==
Proposed Project	8	00.0	0.00	0.00	8	200	9.90	0.00	0.0	0.00	
First Phase	8	0.00	0.00	0.00	8	90.0	9.00	0.00	0.00	0.00	
Off-site	8	0.00	8	00.0	ි ර	90.0	0.00	0.00	0.00	0.00	
Subtotal	0.00	0:00	0,00	00.0	8	0.00	0.00	0.00	60.0	0,00	
Lincoln Storm Drain - South	÷	4	Ç	0					4		
Figher Phase	3 8	38	3 5	20.0	3 8	3 6	20.00	3 8	9 6	0.0	
	38	88	90 9	88	38	300	3 8	3 6	38	90.0	
Subtotal	00.0	0.00	90.0	0.0	8.0	0.0	00,0	0.0	00'0	0.06	_
Freshwater Wetlands											_
Proposed Project	000	0.00	0.00	90 o	20.0	0.00	00'0	ල : ව	00.0	00.0	
First Phase	0.00	0.00	0.5	රි	8	00.0	0.00	0.00	0.0	0.00	
Criste	000	0.00	88	88	88	0.00	88	8 8	88	0.0	
Total Area - Freshwater March	3	,	20.0		3,	0000	9000	000	00.0	000	_
Tributary											
Proposed Project	0.00	0.00	8.0	90.00	9.00	00.00	0.00	0.00	0.00	0.00	
First Phase	8	0.00	00.0	8	000	00.0	0.0 8.0	0.00	00.0	0.0	
C:-550	9,6	0.00	88	88	8 8	0.00	00.0	0.00	000	0.00	
10(3)	00.0	0.00	0,00	0.00	9.0	0.00	00.0	0.00	00,0	0.00	
									_		

### TABLE F-36b

### SUMMARY OF TOTAL LEAD REMOVED (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name   Name	Tr.outary	Industrial	Commercia /R esidential	Commercial	Major Roadways	Cpen Water	Other or Unknown	High Density Residential	High Density Low Density Residential Residential	Open Space	
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## South of Ballona Channel  **South of Ballona Channel  *	Residential										
Second Color	Proposed Project	00.0	5	8	ç	90	8	Ç	600	6	9
## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## Wettands  ## We	First Phase	8 6	80	000	600	8 8	86	3 6	88	38	000
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## Wetlands  10											
Activities   300   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.	Ballona Wetlands										
See   Color	East Wetlands	80	20.0	90	9	5	,00	0	C	60	ć
No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.   No.	Proposed Pro ect	88	300	33	33	3 8	3 2	88	86	3 6	000
1	First Phase	000	900	000	800	000	0000	8 6	8	300	000
Verlands	Off-site	0.00	0.00	00'0	00.0	0.0	0.00	000	000	00.0	60.0
A	Subtotal										
Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Color   Colo	South Wetlands										
Color	Proposed Project	8	0.00	00.0	00:0	93	0.00	0.00	6,69	0.00	0.00
Color		3 6	00.0	0.0	8 8	88	88	0.00	00.0	99	00.0
See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See   See	Subtotal	3 5	8.5		3 6	3 8	0.00	000	98	000	000
A Project 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	North Wetlands	3	20.0	00.0	20.0	3	000	3	00.0	00'0	07.0
See 3.00	Proposed Project	000	C C	9	60.0	5	5	9	Ċ	5	9
a - Ballona Wetlands  ea - Ballona Wetlands  y  c Project  decree color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color color	Frs. Phase	0.00	88	00.0	8 8	30	000	38	38	3 8	900
ea - Ballona Wetlands         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Off-site	0.00	0.00	000	0000	0.00	0.00	800	8	8	00.0
ea - Bailona Wetlands  y  c Project  ea - South of Bailona Channel  CCO	Subtotal	0.00	00'0	0.00	0.00	000	0.00	0,00	0.00	0.00	0.00
y c Project											
a - South of Ballona Channel	Tributary										
See Coop C.CO 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Proposed Project	0.00	00.0	00.0	000	0.00	000	00.0	0000	6	00.0
6.00 C.C0 0.00 0.00 0.00 0.00 0.00 0.00	First Phase	00:0	00.0	00.0	0000	0.00	000	8	Š	8	00.0
ea - South of Ballona Channel  C.CO	Off-site	0,00	00:0	0000	0.00	0.00	00.0	800	800	8	00.0
ea - South of Ballona Channel  C.CO	Total	0,00	0.00	90'0	0.00	0.00	0.00	00.0	00'0	0.00	0.00
d Project C.co 3.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0										Ì	
A Project C.CO 330 0.0C 0.00 0.00 0.00 0.00 0.00 0.00	Total Area - South of Ballona Channel										
900 000 000 000 000 000 000 000 000 000	Proposed Project		000	<u>ر</u> د	6	5	ć	. 6	8	5	9
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0		9 6	8 8	3 8	9 6	3 6	3 (	3 1	3 .	3 1	30.0
		3 5	9 6	200	8 8	3 5	88	88	8 8	00.0	0.0
	Total	0.00	00.0	000	000	00.0	38	3 6	300	3 5	8.6

#### TABLE F-37a

### SUMMARY OF TOTAL ZINC RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

esidential         Continential Continential Residential R			Commerciate		Maior	Onen	Ofberor	Hich Dansify	Jensity	C		_
Name	Tributary	Industral		Commercial	Roadways	Water	Unknown		Residential			
Second Control of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Property of the Proper	Name				Runoff	Coefficie	nts				TZn Loads	_
Water Marsh         Company of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the		0.80	0.80	0.80	0.80	0.80	0.30	0.83	0.38	0.24	Subtotals	—,
Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	Freshwater Marsh Riparian Corridor at Proposed Project Boundary											
Control at Lincoln   Cott	Proposed Project	890	2.81	0.00	80.0	88	9.0	3.48	000	85	6.49	
Control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the cont	Off-site	3 3	000	35.14	0.18	88	0.00	8.0	11.95	- 96 - C	47.96	
Activation at Lincoln  Activation at Lincoln  Activation at Lincoln  Activation at Lincoln  Activation at Lincoln  Activation at Lincoln  Activation at Lincoln  Activation at Lincoln  Activation activates the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the p	Subtotai	0.04	2.81	71,27	0.16	00.0	0.00	3,48	11.95	0.97	90.58	
Storm Drain   Corridor Tributary   Cot	Ripadan Corridor at Lincoln Proposed Project	9,0	0.00	000	0.00	0.00	0.00	0,0	00.00	8	00'0	-
Decided Tributary   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0	First Fhase	9.0	00.0	4 22	0.00	0.00	0.00	60.9	00:00	0.25	13.89	
Storm Drain   0.04   2.81   87.89   0.16   0.00   0.00   9.57   15.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00	Off-site	0.00	0.00	80 G	0.00	8	0.00	8.0	3.05	000	12,13	
Storm Drain         0.04         2.81         87.89         0.16         0.00         9.57         15.00           Storm Drain         0.00         5.30         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00 <th>Subtotal Total Riparian Corridor Tributary</th> <th>50.0</th> <th>B0:0</th> <th>16,62</th> <th>0.0</th> <th>5 •</th> <th><b>90.0</b></th> <th>60.9</th> <th>3.05</th> <th>0.25</th> <th>26.02</th> <th></th>	Subtotal Total Riparian Corridor Tributary	50.0	B0:0	16,62	0.0	5 •	<b>90.0</b>	60.9	3.05	0.25	26.02	
Storm Drain         Cu00         5.30         0.00         0.00         0.00         11.65         0.00           ad Project         0.00         0.00         19.27         0.00         0.00         11.65         0.00           ase         0.00         0.00         19.27         0.00         0.00         11.65         0.00           nn Storm Drain         0.01         0.00         19.27         2.98         0.00         0.00         0.00           nn Storm Drain         0.00         0.03         19.27         2.98         0.00         0.00         0.00           nn Storm Drain         0.00         0.03         0.00         0.00         0.07         0.00           ase         0.00         0.00         0.00         0.00         0.00         0.00         0.00           ase         0.00         0.00 <th>Area</th> <th>0.04</th> <th>2.81</th> <th>87,89</th> <th>0.16</th> <th>00.0</th> <th>00'0</th> <th>9.57</th> <th>15.00</th> <th>1.22</th> <th>116.70</th> <th></th>	Area	0.04	2.81	87,89	0.16	00.0	00'0	9.57	15.00	1.22	116.70	
Accordance   0.00   5.33   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0	Central Storm Drain											·
Storm Drain	Proposed Project	6.6	5,30	) ()	0.00	8	20.0	9.73	0.00	306	15,09	
Storm Drain	First Fhase	9 :	0.00	19.27	S (	8	8 9	11.69	00.0	ن ج ا	31,13	
ase         0.00         0.00         0.00         0.00         0.00         0.00           ase         0.00         0.00         0.00         0.00         0.00         0.00         0.00           ase         0.00         0.00         0.00         0.00         0.00         0.00         0.00           ase         46.32         0.00         13.52         14.90         0.00         0.00         1.87         9.05           Sform Drain - South         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00           A Project         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00           ase         0.00         0.00         0.00         0.00         0.00         0.00         0.00           A Project         0.00         0.00         0.00         0.00         0.00         0.00         0.00           A Project         0.00         0.00         0.00         0.00         0.00         0.00         0.00           B Se         0.00         0.00         0.00         0.00         0.00         0.00 <t< td=""><th>Jub total</th><td>. <b>.</b></td><td>) () ()</td><td>50.00</td><td>2.88</td><td>3 5</td><td>2 5</td><td>0.00</td><td>88</td><td>S 8</td><td>2.99</td><td></td></t<>	Jub total	. <b>.</b>	) () ()	50.00	2.88	3 5	2 5	0.00	88	S 8	2.99	
oct of controls         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00	Jefferson Storm Drain								2012		+	$\overline{}$
ase 6.00 0.00 755 0.00 0.00 3.80 0.00 0.00 1.87 9.05 0.00 0.00 0.00 1.87 9.05 0.00 0.00 0.00 1.87 9.05 0.00 0.00 0.00 0.00 0.00 0.00 0.00	Proposed Project	05.0	90.0	0000	0.00	00.0	00.0	20:0	00:00	000	0.15	_
Storm Drain - South   46.32   0.00   5.97   14.90   0.00   1.67   9.05     Storm Drain - South   C.CO   0.00   0.00   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00   0.00   0.00     Storm Drain - South   C.CO   0.00     Storm Drain - So	First Phase	00.0	0.00	7 55	6.63	00'0	0.00	3.80	0.00	0.03	11.38	_
Storm Drain - South   46.35   1.08   1.3.52   14.34   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.	Off-site	46.32	O.0 O.0	597	14.90	0.00	0.0	1,67	90.06	5.01	78.12	
Storm Drain - South CCO 0.00 0.00 0.00 0.00 0.00 0.00 0.00  sse CCO 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	Subtotal	46.32	0.08	13.52	14.90	0,00	0.00	5.74	9.02	6.03	89.65	7
Color	Incoln Storm Drain - South	ć	ç	4		,	4	i c				
CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO   CCO	roposed Project	3 6	8.6	8 8	8 8	3 6	3 6	05.5	200	90.0	0.0	
ater Wettiends C.00	off-site	3 8	8 8	3 8	3,6	88	38	9.4	3 %	3 8	12.86	
ate- Wetlands         C.00         G.00         C.00         G.00         C.00         G.00	Subtotal	00.0	0.00	1.94	2.26	0,0	0.0	1,44	7.23	80.0	12.87	
Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia   Columbia	reshwater Wellands	i c		,		30	,	;	:			E
859 U.U0 0.00 0.00 0.00 0.00 0.00 0.00 0.0	roposed Project	3 6	3 (	8 8	8 :	00.0	0.00	000	20.0	3 :	0.00	
dear-Freshwater Marsh         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.01         0.01         0.00         0.00         0.00         0.00         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01         0.01	rirst Phase	<b>0</b> 0:0	<del>-</del> වි.ට	00.0	0.0	00.0	60.0	00.0	0.01	) ) (	0.41	
vea - Freshwater Marsh         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.00         0.01         0.01           cc Project         0.00         6.19         0.00         0.00         0.10         0.00         0.15         0.00         0.00           sse         46.36         6.00         62.3         20.30         0.00         0.00         33.1         31.28           46.36         8.19         172.62         20.41         0.00         0.00         38.17         31.29	Off-site	800	0.00	0.0	00'0	00 0	3.0	0.0	0.00	0.00	00.0	
y         y           cr Project         0.00         0.00         0.00         13.28         0.00           see         0.00         0.00         0.00         21.58         0.01           46.36         0.00         62.3         20.30         0.00         21.58         0.01           46.36         8.19         122.62         20.41         0.00         0.00         38.17         31.29	Subtotal	88	0.00	00.00	0,10	0.0	0.00	0.00	0.01	0.30	0.41	<del>-</del> 7
ic Project 0.00 8.19 0.00 0.00 0.00 0.00 13.28 0.00 sse 0.00 0.00 0.00 0.00 0.00 0.00	lotal Area - Freshwater Marsh Tributary	•						•				
sse         0.00         C.C0         70.49         0.10         0.00         6.00         21.58         0.01           46.36         6.00         62.3         20.30         0.00         6.00         33.1         31.28           46.36         8.19         122.62         20.41         0.00         0.00         38.17         31.29	Proposed Project	0000	8,19	0.00	90.0	გ ი	0.0	13,28	0.00	0.25	21.72	~
46.36 6.19 62.13 20.30 0.00 0.00 33.1 31.28	First Phase	8	0.00	70.49	0.10	800	8	21.58	0,01	0.87	93,05	
02.10 1.00 U.U. U.O. 14.04 10.01 0.004	Off-site	46.36	0.0	62.13	20.33	80.8	8	334		0.67	154.06	
		2	2	1		3	3,	30,17	21.65	2	400.00	Ŧ

### TABLE F-37a

## SUMMARY OF TOTAL ZINC RUNOFF LOADS (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Major Open Other or High Density Low Censity Open				Commercia:/R
Water Unknown Residential Space	Vater Un	viajor adways	Commercia Ro	К
	Runoff Coefficients	Runoff (	Runaff	Ruhoff
08.0	08.0	C.80	0.30 0.80	0.80 0.80 0.80
0.00 40.32	00'1	17.71	127.65 27.71	16.36 8.19 127.65 27.71 (

TABLE F-37b

### SUMMARY OF TOTAL ZINC REMOVED (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Tributary	Incustrial	Corrmercal/ Residential	Commercial	Major Roadways	Open Water	Other or Unknown	High Density Residential	Low Density Residential	Cpen Space	
Name				Runoff (	Runof Coefficients	15				TZn Loads
	6.80	0.80	0.80	0.80	080	0.80	0.80	5.38	0.24	Subtotals
Freshwater Marsh Riparian Corridor at Proposed Project Boundary										
Proposed Project (Onsite Biofilters)	0.00	-1.98	6 6 6	0.00	0000	00.0	-1.85	0.00	0.00	-3,84
First Phase	0.0	0.00	8 6	0.03	000	00.00	0.00	20.0	0.00	00'0
	3.0		3 8	0 <b>0</b> 0	3 <b>8</b>	0.00 0.00	5. <b>4.</b> 5. <b>8.</b>	S 8	2 <b>0</b>	0.00 84
Riparian Corridor at Uncoin	2	900		69.0	000			,	8	6
Titol Thase	000	6 6	800	38	88	800	800	3 8	8 6	9 6
Off-site Subfotal	00.0	00.0	88	000 000	0 <b>0</b>	0.00	0.00	0.0 0.0	00.0	0.00
Total Riparian Corridor Tributary Area	0.00	-1.98	00'0	0,00	0.00	0.00	-1.86	0.00	0.00	-3.84
Central Storm Drain Proceed Project (Ooste Biofiles)	0.0	48.5	900	9	٤		63 6		Ş	1
First Phase	800	330	88	30	88	800	0.00	360	800	00.0
Off-site (Lincoin Blvd Bioswales)	000	0.00	8:	-2.28	000	0.00	0.00	00.00	8	-2.28
Subjects	0.00	-1.88	0.00	-2.28	8	0,00	-2.63	0.00	8	-6.79
Jefferson Storm Drain Proposed Project	000	0.00	<b>8</b> 0	00.0	8.5	0.00	0.00	0.00	0.00	0.00
First Phase	8 9	0.00	C.00	85	00:5	٥. ج	0.00	0.00	0.00	0,00
Ort-site Subtote	0 0	9 6	88	S <b>S</b>	00.0	000	0.00	88	8 8	8 8
Lincoln Storm Drain - South				2				2		3
Proposed Project	9 9	86.6	88	88	88	0.0	0.00	0.00	8 8	8.6
Off-site (CDS Unit)	800	300	, t.	88	38	800	3 8 5 9	9 6 6 6	000	2.45
Subtotal	0.00	0.00	-1.17	4.03	0.00	0.00	-0.04	-0.21	0.00	-2.45
Freshwater Wetlands										
Proposed Project	88	000	8 8 8	00.0	90.0	0 0 0 0 0	8 6	0.00	0.00	8.6
Cf-site	38	3 8	38	3 8	38	300	000	3 8	3 6	8 8
Subtotal	0.00	0.00	00'0	0.00	0.00	0.00	00'0	000	0.00	90.0
Total Area - Freshwater Marsh Tributary										
Proposed Project	00.0	00:0	0.00	0.00	800	000	0.00	0.03	G) 0	0.00
Pits: Phase	8	0.0 0.0	0.00	00'0	2000	00 p	00:00	0.00	000	0.00
C.F.S.R.S.	88	00.0	0 <b>8</b>	8 <b>8</b>	S 6	0 <b>0</b>	00.0	0.00	S 6	8 6

#### TABLE F-37b

### SUMMARY OF TOTAL ZINC REMOVED (LBS.) PLAYA VISTA - SECOND PHASE PROJECT

Tributary	Industrial	Commercial/ Residentla	Commercial	Major Roadways	Open Water	Cther or Unknown	High Density Residential	Low Density Residentia	Open	
中にロフ				Ruroff Coefficients	oefficien					1Zn Loads
	0.80	0.80	0.80	0.80	0.8C	0.80	0.80	0.33	0.24	Subtotals
Former Area B Residential Procesed Project	00.0	00.0	00'0	00'0	20.0	00.0	000	00:0	0.00	0.00
First Phase	0.00	9.6	80	8.5	3.00	0.00	0.00	0.00	0.00	0.00
Ciff-site Subtote	00.00 01.00	0.00 0.00	8. 8. 8.	00.0 00.0	00.0 00.0	0.00 0.00	0.00 <b>0.00</b>	0.00	0.00	0.00
Total Area . Former Area B Residential	:									
Proposed Project	0.00	8,6	8.5	C:00	0.00	9.6	00.0	0.00	0.00	0.00
First Phase Off-site	388	000	888	308	388	385	368	000	308	00.0
1014	20,5	200	20.5	2020	200	700	an's	2010	1	
Ballona Wetlands										
East Wetlands	800	0.00	0.3	0.0	0.30	0.00	0.00	0.00	0.00	0.00
Proposed Project	8	0.00	8 :	00:0	8	0.00	6.6	0.00	88	00.0
First Phase Off-sita	0 6	C 60	0 <b>0</b>	0 <b>0</b>	8 <b>8</b>	0.00	S 60	3 6 6 6	000	8 8
Subtotal										
South Wedands										
Proposed Project	0.0	0.00	0.0	8 6	88	0.0	0.00	0.00	8,6	00.0
First Phase Officia	8 8	9 6	88	38	3 8	3 6	3 6	3 C	3 8	00.0
Subtotal	0.0	0.00	00:0	00'0	0,00	0.00	0.00	0.00	0.00	0.00
North Wetlands	ć	000	000			000	40.0	50.0	0	90
Proposed Project First Phase	88	0.00	88	88	88	000	6 6	300	300	6.6
Off-site	0.00	0,00	000	3	8	00.0	0.03	0.00	0,00	0.00
Subtotal	00'0	0.00	0.00	000	0.0	0.00	0.00	0.00	8	0,63
Total Area - Ballona Wetlands Tributary										
Proposed Project First Phase	88	8 6 6 6	88	88	88	0 0 0 0	0 0 0 0 0	000	8 8 6 6	00.0
Off-site	00.0	0.00 0.00	0 6	000	00.0	00.0	0.00	000	0.00	00.0
Total Area - South of Ballona Channel							:			
Proposed Project	0.00	0.00	0.0	8	8	00.0	0.00	9.6 8	9.00	000
First Phase Off-site	88	8 8 6 6	88	000	8 8	000	0.00	0 0 0 0	9 8 8 8	0.00
Total	0.00	00'0	0,00	0.00	0,00	0.00	0.00	0.00	0.00	0.00

Onsite biofillers include vegetated planter poxes for roof runoff and vegetated swaies for roadway runoff

#### TABLE F-38

### SUMMARY OF ANNUAL LOADS (LBS) PLAYA VISTA - PROPOSED PROJECT

				3	Conde						
	XST	Total P	NYE	080	O&G Total Curbins On Total Parties Par Total 2a	Lag said	Of Ph D	f		Diec 72	Veluma (87)
Freshwater Marsh							) 			i	
Upper Riparian Conridor Mass Removed Through WCJ Injets (25% of First and Second	36,634	<u>\$</u>	<u>2</u>	1,228	7.2.7	ភា មូរ	ŗ.	5	86.8	51.7	8,555,53
(Frase) Upper Risarian Corrido: Influent	45,413	иã	015	25	9	10.	1.0	6		9	
Mass Removed in Upper Riparian Corridor	22,142	3 %	492	505	7 0	0 kg	n e	) q	1 00 F	7 6	8 555,831
Riparian Corridor at Proposed Project Boundary	13,349	149	798	85	7.	89 69	<b>1</b>	4	4.67	18.9	8.595.931
Lower Riparian Corndor Mass Removed Trough Mill Inset 2359, of Eight and Conned	11,055	52	386	<u>8</u>	3.6	1.7	1,8	9.0	26.0	10 20	3,144,959
Phase)	154.	•	c	Ÿ	0	9	ç	9	0	Ç	
Lower Ripatian Corridor influent	10,515	i is	93 k	) <del>(</del>	S 8	9 6	3 °	30		1	
Mass Removed in Lower Riberian Corridor	-5,631	Ö	-107	.87	4	00	00	9 0	0.0	o. G	
Ripartan Corridor at Lincoln Cartes State Design	18,232	203	100	903	<u>7</u>	읾	or G	3.2	5	25.8	11,740,891
Mass Removed Through WG Inlets (25% of 1st and 100% of	76671	5	54	87.1	w	77)	c,	-	42	8	5,797,724
2rd Phase;	-2.497	47]	0	-62	6.0	9	50.5	0-	1.8	7	
influent to Central Storm Drain Pretreatment Area Jefferson Storm Drain	16 44	8	745	9,0	6	2,7	17	<u>-</u>	9,6	1	
Mass Removed Through WQ Inlets (25% of First and Second	38 3B	72.	863	90 80 80 80 80 80 80 80 80 80 80 80 80 80	10.5	4.9	Ą.	2.1	39.6	53.3	5,987,025
Phase)	5087	ħ	Q)	જ	0	0.0	0.0	0.0	60,	Ş	
iri Jeni (G Jaherson Storm Drain Pretrealment Area	38,058	127	863	830	10.4	4	1 <del>.</del> 5	50	99.4	53.2	
lotal Flays Vista Area	71,735	423	2,699	2,442	24	14	4	9	231	403	24,525,639
Lindown Storm Drain - South Influent to RC and Lincoln Pretreatment Area	22,941	*11 *21 *21	1,282	<u>됩</u>	기2	9 6	O    	20 20 20 20 20 20 20 20 20 20 20 20 20 2	12.9	<u>                                      </u>	13.518.591
Total Influent to Freshwater Marsh Prefrestment Areas	76.444	£.52	ober 4	2.625	å,	٤	֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓	,		1	
Total Mass Removed in Pretreatment Areas	-30.300	115	3/2	2995	1	2 2	3 5	-	Į	- 0	70,503,340
Riparian Corridor/Lincoln Storm Drain PMA	20,66B	214	1 208	1076	- m	) P	) <del>-</del>		0,407	5 0	1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0
Central Storm Drain PMA	13,914	8	969	577	10	77	10		36.2	2 40	5 797 724
Cefferson Storm Drain PMA	34,287	= 1	908	833	9.6	4	4.2	2,0	19.8	4	6.987,025
Candentiform Central South Designations & Section 1	13,849	£ (	98 i	B64	2.0	on e Vo	5.6	2.9	65.1	13.6	13 518,591
Efficient from Jefferson Storm Crain Pretheatment Area	9,025 079,073	7 8	22	<b>2</b> 6	D) C M P	570	5.0	ф ;	87	च ( () ()	5,797,724
Direct to Freshwater Marsh	3.107	5 ~	3 =	3 0	, ,	, c	4 C		<u>ا</u> و	D C	620.786,8
Main Body of Freshwater Marsh	49,251	338	2,138	2,069	15	15	3 1 1	38	138.7	9 F9	26.853.513
Freshwater Marsh Effluent	20 30 20 30 20 120	223.4	-756 -4014	1.509.3	취증	% % %		7	104.6	49.2	
Ballona Wetlands						!	į		3	<u> </u>	2
Freshwater Marsh Effluent (3% Overflow)	. 518 1	σ. •-1	1401	1203	ď	*	ď	è	ď		700 00 70
East Wellands	13,366	9	110	8		9 0	9 e	5 6	4 0 8	n in	1,148,061
South Wedands	12,850	4	327	241	2.4	Ξ	0.8	6.3	18,1	7,	3,113,113
norm Wetands Off-site Stort-water Runoff Cirect to Wetands	- 8,407 44,624	3 3	5 5 5 5 7	88	<del>د</del> م	6.0	60	e i	4) (4)	A .	1,802,938
Total Area - Ballons Wetlands Tributary	48 140	2   1	808	300	3	2	4	3	50.4	2	6.347,820
Mass Removed in Wesends	45.463	3	opa i	500	80	4	3	-	33.2	18.0	8,495,501
Ballona Wetlands Effluent	20,578	<b>%</b>	88	a g	2 <b>45</b> 2 80	2.7	2.0 2.0 2.0	0.0	19.6 19.6	0.0	8,495,301
Ballona Channel											·
Freshwater Wetlands System (92% of FWM Effluent) Rallona Wetlands	17,435	502	1,285	1389	ල ල	7.2	7.7	4.1	32.2	£.	24 714,452
Direct to Baltona Channel (Former Area B)	9 C(	) ()		ž°	κ. Θ Ο	. v 0	20	- °	ტ დ. ი	90 T C	£ 496,901
Total Bellons Channel Influent	38,413	302	1,977	1,893	15.1	5.6	9.3	5.2	51.8	19.7	33.241.333

### TABLE F-39

### SUMMARY OF CONCENTRATIONS (MG/L) PLAYA VISTA - FIRST PHASE PROJECT

				7	Summary Concentration	phoentrat	ons				Volume
		Mgm)	_					(ngn)			(ff³)
Frachwater March	TSS	Total P	T.	0%G	Total Cu	Diss, Cu	Total Pb	Diss. Ph	Total Zn	Diss. Zn	
Upper Riparian Corridor (influent fatter WO Intets)	66.4	6	,	,	ţ	9	, (	Ü	0	, ,	1
% Removed in Upper Riparian Confider	200	200	t.7000	7 6	t 200	n ≥ 6	8 i	P i	0.001	7.08	8,585,931
Ribarian Corridor at Proposad Project Boundary	9.40	2 6	e 4	ę <b>?</b>	2 1	2 2	6 6	%07	27.5	850	
Lower Riparian Corridor Influent (after WO Inlets)	i c	3 6	3 6	3 ,	† ¢	э г Э о	e (	4 .	140.6	35,2	8,595,931
% Removed in Lower Riverian Corridor	D 25	P è	? !	- 2	) d	νη , κο δ	) ()	4	130.7	77.8	3,144,959
Display Complete at 12000	8 6	%	9/7	25. 28.	37%	88	%	88	8	55%	
	24,9		r.	<u>.</u>	4.1	6 6	9. <del>0</del>	<b>4</b> .0	137,9	35.2	11,740,891
influent to before Storm Orain Predestrent Area	42.7	0.27	77	7.	<u>دن</u> ق	7.3	7,4	3.4	112.1	66.7	5,797,724
Total EWM Delicition of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of the Community of	87.3	0.29	1.98	2.02	23.9		10.3	4.7	204.9	121.9	6,987,025
Total riving Project Area I fibutaries	46,9	0.28	4.B	1,6	16.0	9.5	9.2	4.2	150.9	67.4	24,525,639
Lincoln Storm Drain - South	42.4	0.26	<del>1</del> .	1,7	15.5	7.2	4.6	2.1	115.9	0.69	1,777,701
Influent to KC and Lincoln Prefreatment Area	27.2	0.27	<u>_</u>	<u>ن</u>	1.9	0) (4	8.8	0,4	135.0	39.7	
Freshwater Marsh Pretreatment Areas	46.6	0.27	<del>*</del>	1.6	16.0	е С	60	4.	148.5	67.5	26,303,340
% Removed in Pretreatment Areas	40%	25%	26%	27.76	31%	55%	<b>54</b> %	16%	43%	44%	
Riparian Corridor/Lincoln Storm Drain PMA	24.5	0.25	1,4	<u>د</u> .	11.0	9.6	8.2	3.9	120.6	35.3	13,518,591
Central Storm Drain PMA	38,4	0.25	1.9	1.6	14.5	6,6	7.0	3.2	100.1	59.3	5,797,724
Jenerson Storm Drain PiMA	78.6	0.27	<del>6</del> .	œ.	22.0	10,4	9.6	4.5	182.9	108.4	6,987,025
Efficient from RC and Lincoln Pretreatment Area	16.4	0.20	1.1	1	83	φ (0	6.7	ы 4.	77.1	22.1	13,518,591
Efficient from Central Storm Drain Pretreatment Area	25.8	0.20	5	<u>(.</u> )	10,9	rů rů	5.7	5.8	64.0	37.1	5,797,724
Ciffuent from Jetterson Storm Drain Pretreatment Area	52.7	0.22	£.	eŭ.	16.5	<b>8</b> 5	ω. •	3.9	117.0	67.8	6.987,025
Direct to Freshwater Marsh	98 98	0.03	4.0	0.	<del>4</del> .	τ <del>-</del>	<u>د</u> ن	9.0	9.	7.1	560,173
Main Body of Freshwater Marsh	29.4	0.20	<u>ლ</u>	1.2	10.9	6,9	6.6	3.3	83.3	36,9	26,863,513
% Removed in Main Body of Marsh	62%	34%	35%	27%	45%	32%	31%	20%	75%	%08	
Freshwater Marsh Effluent	11.3	0.13	8.0	6.0	6.02	4.66	4.59	2.68	20.89	7,53	26,863,513
Influent to Main Body	28.1	0.20	<u>E</u>	<u>6</u> .	11.0	7.0	6.8	3.4	84.8	37.5	•
Ballona Wetlands									-		
Freshwater Marsh Effluent (8% Overflow)	11.3	0.13	8.0	0.0	6.0	2.9	4.6	2.7	20.9	e e	2,149,081
East Wellands	149.3	0.17	1.2	9.0	10.7	5.0	3.2	د. رن	53.8	32.0	1,433,719
South Wellands	66.1	0.23	1.7	<u>,</u>	12.4	5,7	6.6 6.6	<u>ب</u> ئ	92.9	10 10 10 10	3,113,113
Coffee Statements Disage Disage Afternation	163.7	0.17	5	8	4	6.7	5,2	2.4	67.1	39.6	1,800,588
Citation Studies Author Direct to Wedness	112.6	0.20	<del>1</del> .5	0	12.8	5.8	4.1	1.9	76.7	45.7	5,347,820
lotal Area - Ballona Wetlands Iributary	B7.0	0.18	1.3	1.0	10.9	5.1	4.2	2.1	62.6	35.9	8,496,901
% Removed in Lower Ballona Wetlands	25%	0%	%0	860	%0	%0	%0	%0	41%	53%	
Ballona Wetlands Effluent	39.5	0.18	<del>د</del> .	<del>-</del>	10.9	5.1	4.2	2.1	36.9	Ť.	8,496,901
Ballona Channel											
Freshwater Wetlands System (92% of FWM Effluent)	11.3	0.13	3.0	6.0	6.0	2.9	4 8,	2.7	20.9	6.9	24.714.432
Bailona Wetlands	39.5	0,18	1.3	1.0	10.9	5.1	4.2	2.1	36.9	15.2	8,456,901
I of all Sallona Channel Influent	18.5	0.15	0.95	6.0	7.3	4.8	4.5	2.5	25.0	10.60	33 244 333

GeoSyntec Consultants

Appendix G Effect of Saltwater on Metals Partitioning (GeoSyntec Consultants)



#### Introduction

Metals change chemical forms in aquatic systems based on pH, salinity, temperature, organic matter and biological activity. A study by Lores and Pennock (1998) characterized the effect of salinity on the complexation of dissolved organic matter (DOM), humic acid, with Cu, Cd, Cr, and Zn. Results from this study indicated that Cu binding with DOM increased with increasing salinity. Another study (EPA) indicates that in sea water systems, aquatic chemists have discovered more metal bound up in organic complexes as compared to inorganic complexes (Bruland et al. 1994). For example within estuarine systems dissolved copper results appear to contain 90% to 99% organic complexes, consequently free copper ion concentrations (the fraction most attributable to aquatic toxicity) are about 100-fold lower than dissolved copper concentrations (Donat et al. 1994). Some increased binding with increased salinity was reported by Fukushima (1994), who suggested that at least part of the increase in binding is likely due to changes in the conformation of the humic molecules exposing more copper binding sites. For primary producers such as phytoplankton, ciliates, copepods, and crab larvae, bioavailability is generally correlated to the free metal ion concentration, thus toxicity is much lower in seawater systems than in freshwater bodies (Sunda et al. 1987).

#### **Use of Los Angeles County Mass Emissions Data**

Based on the review of literature above, the metals concentrations in the discharge of Freshwater Marsh to the saline waters of the Ballona Channel and the Ballona Wetlands are expected to repartition according to the ambient water quality of these receiving waters. The Los Angeles County has a mass emissions monitoring station upstream of the Proposed Project in Ballona Channel. Data from this monitoring station indicates that the dissolved copper concentrations in the Ballona Channel are, on average, approximately 48% of the total copper concentration, while dissolved zinc concentrations are approximately 33% of the total zinc concentration (LADPW, 2000). Dissolved lead was not measured at concentrations above the detection limit of 5 ug/L at a statistically significant number of times in the Ballona Channel to summarize the dissolved lead data.

While these local data do not necessarily represent the conditions in the estuary portion of the Ballona Channel since the mass emission station is upstream of the Proposed Project near Culver Drive and Beloit Avenue, the dissolved fractions of dissolved copper and zinc do conservatively agree with data in other estuaries of California. Water quality monitoring conducted in the San Francisco Bay Estuary indicates that dissolved copper, lead, and zinc are rarely measured at concentrations greater than 50% of the total metals concentrations (SFEI, 1997). Therefore, to account for the tendency of dissolved metals to bind with organic matter (metals complexation) during the initial mixing of freshwater with the estuarine waters of the Ballona Channel, an effective dissolved metals concentration was estimated using the observed dissolved and particulate fractionation values from the County of Los Angeles' mass-emissions data for Ballona Creek. Dissolved lead was not adjusted due to the lack of statistically valid data for Ballona Creek.

#### Conclusions

The pollutant loadings model used to assess potential impacts of the Proposed Project does not account for the transformation, or speciation, of modeled pollutants, except for the use of stormwater control facility performance data from National Stormwater BMP database (www.bmpdatabase.org). This data represents the most current state-of-the-practice performance data of stormwater best management practices, however it is limited in that it can only be used to predict transformations occurring within the BMP system. Therefore, the use of local data to adjust the discharge concentrations of dissolved copper and zinc based on the predicted total metals concentration from the Freshwater Marsh to the Ballona Channel (estuary) and the Ballona Wetlands is believed to more accurately represent the likely contribution of these metals to the saline receiving waters of the Proposed Project.

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