



## SECTION A-1, INTRODUCTION

---

### A.1.0 INTRODUCTION

This document constitutes the City of Newport Beach's Local Implementation Plan (LIP) prepared as part of a compliance program pursuant to the California Regional Water Quality Control Board, **Santa Ana Region, Order No. R8-2002-0010, NPDES No. CAS618030 (termed *Third Term Permit*)**.

This plan describes the activities that the City has previously undertaken and is currently undertaking to meet the requirements of the Third Term Permit and to make meaningful improvements in urban water quality. Although the LIP is intended to serve as the basis for City compliance during the five-year period of the Third Term Permit, the LIP is subject to modifications and updates as the City determines necessary, or as directed by the Regional Board.

The stormwater pollution control effort, of which this LIP is a part, is the result of three decades of legislative effort beginning with the 1972 Federal Water Pollution Control Act, subsequently known as the Clean Water Act (CWA) (for details of this legislative and regulatory history see the **DAMP, Section 1.0**). Since 1990, the City has cooperated with the County of Orange, the Orange County Flood Control District and the other cities in Orange County (the Permittees) in complying with the National Pollutant Discharge Elimination System (NPDES) permits issued by the Santa Ana and San Diego Regional Water Quality Control Boards. The result of this cooperation has been the development of numerous common stormwater programs that have been integrated in the area-wide Drainage Area Management Plan (DAMP). The City believes this common approach, to provide the most efficient and effective means of reducing stormwater and urban runoff pollution and meeting permit requirements.

As a result of the Third Term permits, the DAMP has undergone significant changes and restructuring and is now termed the 2003 DAMP. The 2003 DAMP contains model program guidance that was developed through a collaborative effort among all the Permittees, including the City, as well as interested agencies, organizations and the public. In addition, the DAMP underwent public review through the California Environmental Quality Act (CEQA) process.

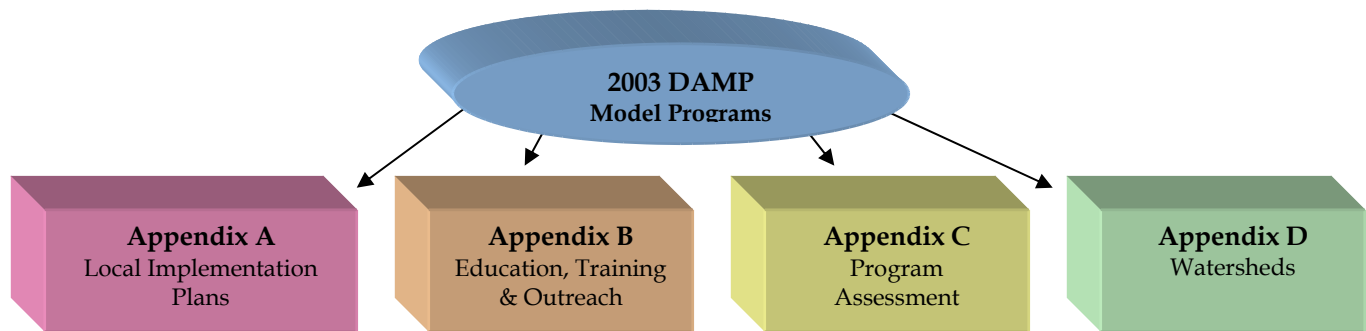
The 2003 DAMP now includes the following appendices:

- Appendix A - The Local Implementation Plans developed by the Permittees
- Appendix B - Education, Training and Outreach Component
- Appendix C - Program Effectiveness Assessment Component
- Appendix D - Watershed Components (to be developed)



Figure A-1.1 provides a graphical illustration of the structure of the 2003 DAMP.

Figure A-1.1 - 2003 DAMP Structure



In developing this LIP, the City has utilized the 2003 DAMP as the foundation for its program development. The LIP, as a result, contains numerous references to the 2003 DAMP and the two documents, in effect, act as companion parts of the City's compliance program.

### A.1.1 ENVIRONMENTAL SETTING

#### A.1.1.1 Geography and Climate

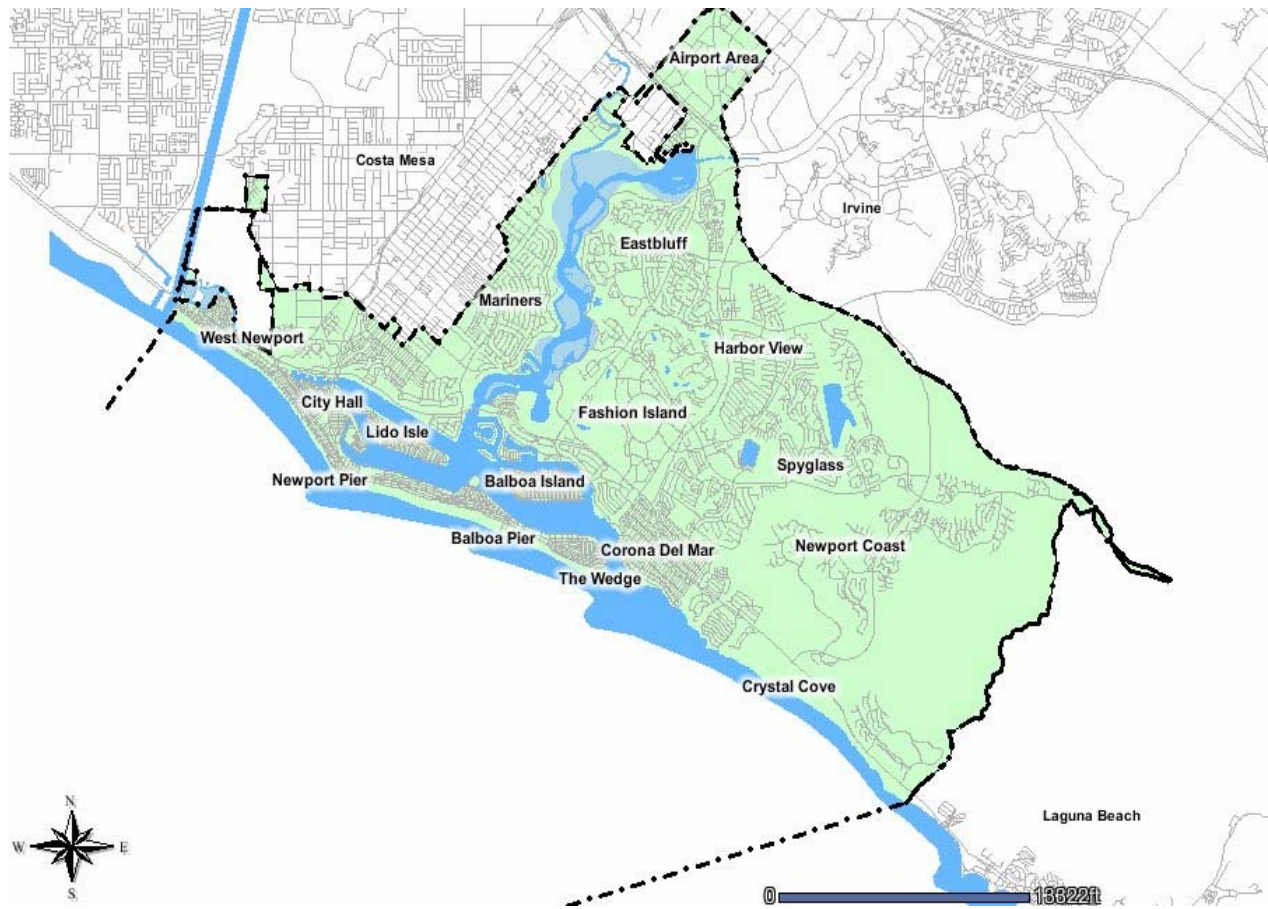
The City of Newport Beach lies on the central coast of the County, 50 miles south of the City of Los Angeles and 85 miles north of the City of San Diego. The City is bounded to the west by the Pacific Ocean, the north by the cities of Huntington Beach and Costa Mesa, the east by the City of Irvine, the northeast by the County of Orange, and to the south by the City of Laguna Beach. The City covers an area of approximately 50 square miles with a population of just over 75,000 people.

Figure A.1-2 illustrates the regional location of the City.

Orange County's climate has hot, dry summers and mild winters. Nearly all the annual precipitation falls in only a few storm events between October and April. During times of drought, it is not unusual for years to pass between major rainfalls. It is also common for successive storms of varying durations and intensities to compound their effects, with the heavy rainfall of the second or third storm creating the most severe flood conditions. On average, Orange County only receives a 12 to 13 inches of rain per year.



## SECTION A-1, INTRODUCTION



**Figure A.1-2 Regional Map - City of Newport Beach**

### A.1.1.2 Watersheds

Watersheds are generally areas that drain to a single point or receiving water. The City falls within four major watersheds. These watersheds are based on the hydrologic areas delineated by the RWQCB in the Santa Ana Region (Region 8).

Watershed D, The Talbert - Lower Santa Ana River watershed covers 21.4 square miles straddling the mouth of the Santa Ana River. The watershed's eastern tributary (Greenville - Banning Channel) empties into the Santa Ana River.

Watershed F, The San Diego Creek watershed covers 112.2 square miles in central Orange County. The watershed's main tributary, San Diego Creek, drains into Upper Newport Bay.



## SECTION A-1, INTRODUCTION

---

Watershed G, The Newport Bay watershed covers 13.2 square miles along the coast of central Orange County. This watershed drains directly to the Pacific Ocean.

Watershed H, The Los Trancos – Muddy Creek watershed covers 11.2 square miles along the coast of central Orange County. This watershed drains directly to the Pacific Ocean. In addition, this particular watershed falls within the boundaries of the Santa Ana Region (Region 8) and the San Diego Region (Region 9). Subsequently, a very small portion the City of Newport Beach’s boundaries lie within the jurisdiction of the San Diego Regional Water Quality Control Board (SDRWQCB). A site survey was conducted by the City of Newport Beach (refer to Exhibit A-1.II, and it was determined that current or future development within the boundaries of the City of Newport Beach will not affect any area within SDRWQCB’s jurisdiction. Therefore reporting to the SDRWQCB is not required.

### A.1.1.3 Impaired Waters/Environmentally Sensitive Areas (ESAs)

#### *CWA Section 303(d) Water Quality Limited Segments of Receiving Waters*

Under Section 303(d) of the CWA, states, territories and authorized tribes are required to develop lists of water quality limited segments of receiving waters (impaired waters). These impaired waters do not meet water quality standards or support designated water uses. The law requires that priority rankings be established for the impaired waters on the 303(d) lists and Total Maximum Daily Loads (TMDLs) be developed to improve water quality. The Ducheny Bill (AB 1740) requires the California State Water Resources Control Board (SWRCB) and its nine Regional Water Boards to develop the 303(d) list and to provide an estimated completion date for each TMDL.

On February 4, 2003, the State Water Resources Control Board (SWRCB) adopted the 2002 303(d) list of water quality limited segments (**Table A-1.1**). The adopted list has been sent to USEPA Region IX and is now awaiting final approval. Once the list is formally approved by EPA, **Tables A-1.1** and **A-1.2** will be amended as necessary.



SECTION A-1, INTRODUCTION

Table A-1.1

Summary of 2002 303(d) List of Water Quality Limited Segments and Associated Pollutants of Concern for Orange County

Region	Water Body	Watershed	Pollutant														
			Bacteria Indicators/ Pathogens	Total Coliform	Fecal Coliform	Enterococci	Metals	Nutrients	Pesticides	Phosphorous	Priority Organics	Sediment/ Siltation	Salinity	TDS	Turbidity	Unknown Toxicity	Chlorides
Region 8 Santa Ana	Seal Beach (Impaired 50 yds at 1st Street Drain)	C				X											
	Huntington Harbour	C	X														
	Huntington Beach State Park (50 yds around Magnolia drain)	D				X											
	Santiago Creek, Reach 4	E										X	X				X
	Silverado Creek	E	X									X	X				X
	San Diego Creek, Reach 1	F			X				X								
	San Diego Creek, Reach 2	F					X									X	
	Newport Bay, Upper	G					X		X								
	Newport Bay, Lower	G					X		X		X						
	Buck Gully Creek (D/S PCH)	H		X	X												
	Los Trancos Creek (D/S PCH)	H		X	X												



SECTION A-1, INTRODUCTION

Based on the State Board adopted 2002 Clean Water Act 303(d) list of water quality limited segments, **Table A-1.2** has been prepared to include a more detailed description of the impaired waters that could potentially be affected by activities occurring within the City. Also included are the primary reasons for the listing of the waters (such as high coliform count). It is understood that once the updated list has been approved by the USEPA, that Tables A-1.1 and Table A-1.2 will be amended accordingly.

**Table A-1.2. 2002 List of Impaired Waters Potentially Affected by Activities of the City**

Name	Hydrologic Unit	Pollutant/ Stressor	Source	TMDL Priority	Size Affected
<b>Santa Ana Region</b>					
<i>San Diego Creek, Reach 1</i>	801.110	<i>Fecal Coliform, Pesticides</i>	<i>Urban Runoff/ Storm Sewers, Unknown Nonpoint Source</i>	<i>High</i>	<i>6 miles</i>
<i>Newport Bay, Upper</i>	801.110	<i>Metals, Pesticides</i>	<i>Urban Runoff/ Storm Sewers, Boatyards, Unknown Nonpoint Source</i>	<i>High</i>	<i>752 acres</i>
<i>Newport Bay, Lower</i>	801.110	<i>Metals, Pesticides, Priority Organics</i>	<i>Urban Runoff/ Storm Sewers, Boatyards, Unknown Nonpoint Source</i>	<i>High</i>	<i>700 acres</i>

*Source: State Water Resources Control Board*

These impaired waters are shown in the maps attached as **Exhibit A.1.I.** along with ESAs.

*Environmentally Sensitive Areas (ESAs)*

Although the Santa Ana Permit does not include a definition of ESA's, for the purposes of this LIP, the following categories from Section VII.2 of the Permit have been included as ESA's:

- CWA Section 303(d) impaired waters listed for sediment or turbidity; and
- Area of Special Biological Significance.

The ESAs identified in the City are listed in **Table A.1-3** and are shown on the GIS watershed maps in **Exhibit A.1.I.**



## SECTION A-1, INTRODUCTION

---

**Table A.1-3. Environmentally Sensitive Areas within Orange County Potentially Impacted by Activities of the City of Newport Beach**

Name	Hydrologic Unit	Reason for listing as ESA
San Diego Creek, Reach 1	801.110	303(d)
Upper Newport Bay Ecological Reserve	801.110	303(d)
Irvine Coast Marine Life Refuge	801.110	ASBS
Newport Beach Marine Life Refuge	801.110	ASBS
Buck Gully Creek (D/S PCH)	801.110	303(d)
Los Trancos Creek (D/S PCH)	801.110	303(d)

### 1.2 ORGANIZATION OF THE LOCAL IMPLEMENTATION PLAN

The main objectives of this LIP are to fulfill the commitment of the City to present a plan that satisfies the requirements of the Santa Ana NPDES Permit and to evaluate and reduce the impacts of urban stormwater on the beneficial uses of receiving waters that the City drains to. This LIP, in conjunction with the 2003 DAMP, is the principal policy and guidance document for the City's NPDES Stormwater Program. The LIP is structured using the same organization, by section, as the 2003 DAMP and includes the following programs in subsequent sections:

1. Framework for program management activities and future plan development (Section A.2.0 and Section A.3.0);
2. Legal authority for prohibiting unpermitted discharges to the storm drain system and for requiring BMPs in new development and significant redevelopment (Section A.4.0);
3. Municipal activities for pollution prevention and treatment to further reduce the amount of pollutants entering the storm drain system (Section A.5.0);
4. Educational program to communicate with the public about urban stormwater and non-stormwater pollution and obtain their support in implementing pollution prevention BMPs (Section A.6.0);



## SECTION A-1, INTRODUCTION

---

5. New development and significant redevelopment controls to incorporate appropriate and required post construction nonstructural and structural BMPs into the environmental planning and development review process (Section A.7.0);
6. Construction site controls that address appropriate and required practices for erosion and sediment control and on-site hazardous materials and waste management (Section A.8.0);
7. Existing development programs to prioritize, inspect and implement programs for commercial and industrial facilities (Section A.9.0);
8. Illegal discharges/illicit connections (ID/IC) program to detect and eliminate unpermitted discharges and unauthorized connections to the municipal storm drain system (Section A.10.0);
9. Monitoring programs for wet and dry weather to identify areas with water quality problems, to assist in the prioritization of watersheds for analysis and planning, and to assist in the prioritization of pollutants to facilitate the development of specific controls to address these problems (Section A.11.0); and
10. Watershed scale initiatives will be developed further through the completion of watershed specific chapters (**DAMP Appendix D**) and programs that will be developed during the Third Term Permit (Section A.12).