



CITY OF LAKE FOREST

APPENDIX A –

LOCAL IMPLEMENTATION PLAN

December 16, 2010

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Glossary

1993 DAMP

A document required under the First Term Permits issued by the Santa Ana and San Diego Regional Boards.

2000 DAMP

An updated version of the 1993 DAMP. Submitted in draft form as the proposed plan for the 2000 Report of Waste Discharge submittal.

2003 DAMP

An updated version of the 1993 DAMP which was submitted in draft form in 2000 as the proposed plan for the 2000 Report of Waste Discharge (2000 DAMP). This document incorporated the Third Term Permit requirements.

2007 DAMP

The proposed, updated and revised version of the 2003 DAMP submitted to the Santa Ana and San Diego Regional Boards as the 2007 Report of Waste Discharge in July and August of 2006, respectively, to initiate the permit renewal process as required by the Third Term Permits. This document is the draft principal policy and guidance document for the countywide NPDES Stormwater Program for the Fourth Term Permits.

Best Management Practice (BMP)

A technique, measure or structural control that is used for a given set of conditions to manage the quantity and improve the quality of stormwater runoff in the most cost-effective manner.

Clean Water Act and Amendments

The Federal Pollution Control Act (Public Law 92-500), as amended (33 U.S.C. 1251 et seq.). Federal regulation mandating a National Pollutant Discharge Elimination System permit for discharges into the Waters of the United States. The goals of the act are to restore and maintain the chemical, physical and biological integrity of the nation's waters.

Changing Behavior (Outcome Level 3)

At Level 3 of the Outcome pyramid the programs and control measures focus on providing the information, tools, and incentives for target audiences to take action by changing behavior and implementing recommended practices.

Construction General Permit

The NPDES general permit for stormwater discharges associated with construction activity. SWRCB Order No. 2009-0009-DWQ DWQ, NPDES General Permit No. CAS000002 or its subsequent replacement.

Control Measures

Major groupings of the specific BMPs that are developed and implemented for a program element. There are typically several control measures for each program element.

Glossary

Documenting Activities (Outcome Level 1)

At Level 1 of the Outcome Pyramid the desired Outcome is the development and implementation of a program or control measure.

Effectiveness Assessment

The process that is used to evaluate if the programs are resulting in desired Outcomes.

First Term Permits

The Regional Boards issued Municipal Stormwater Permits No. CA 8000180 and No. CA 0108740 to the Permittees in 1991 for the period from 1990 – 1996.

Fourth Term Permits

The Regional Boards re-issued the Municipal NPDES Stormwater Permits in 2009, Santa Ana Region Order No. R8-2009-0030 and San Diego Region Order No. R9-2009-0002, which covers the time period from 2009-2014.

General Industrial Permit

The NPDES general permit for stormwater discharges associated with industrial activity. SWRCB Order No. 97-03 DWQ, NPDES General Permit No. CAS000001 or its subsequent replacement.

General Permittee Committee

The committee made up of a representative from each of the Permittees that provides the overall guidance for the NPDES Stormwater Program.

Headline Indicator

A sub-set of measures that reflect, in simple terms, how a stormwater program is progressing towards its goals and are easily understandable.

Hydromodification

Hydromodification is the alteration of natural flow characteristics.

Illegal Discharge

Any discharge to a municipal separate storm sewer that is not composed entirely of stormwater and that is not covered by an NPDES permit or identified in the NPDES Stormwater permit as an allowed discharge.

Illicit Connection

Any man-made conveyance or drainage system, pipeline, conduit, inlet or outlet, through which the discharge of any pollutant to the stormwater drainage system occurs or may occur.

Implementation Agreement

The agreement underpinning County and city cooperation which establishes the responsibilities of each Permittee and a funding mechanism for the shared costs of the Program.

Glossary

Implementation Assessment

The analysis of the effectiveness of a program element or control measure at meeting desired programmatic Outcomes or goals.

Improving Runoff Quality (Outcome Level 5)

At Level 5 of the Outcome pyramid the goal is to improve the quality of discharges from stormdrain system.

Integrated Assessment

The process of evaluating whether stormwater program implementation is resulting in the protection or improvement of water quality.

Iterative Approach

A stormwater program is developed, implemented, and assessed in repeated cycles. In each cycle the program is implemented and then refined based on the effectiveness assessment results.

Local Implementation Plan (LIP)/Jurisdictional Urban Runoff Management Plan (JURMP)

The Permittee specific document that details how the stormwater programs within the DAMP are implemented within their local jurisdictions (synonymously referred to as a LIP in the Santa Ana Region and a JURMP within the San Diego Region).

Low Impact Development (LID)

LID is an approach to land development (or re-development) that works with nature to manage storm water as close to its source as possible by using structural and non-structural best management practices to reduce environmental impacts.

Orange County Stormwater Program

The program designed by the Orange County Permittees for compliance with the NPDES permits.

Outcomes

Outcomes are the results of implementing a stormwater control measure, program element or overall program. Outcomes are categorized in terms of six Outcome Levels, which can have implementation or water quality endpoints.

Outcome Levels

Outcome Levels help to categorize and describe the desired results or goals of programs and control measures.

Glossary

National Pollutant Discharge Elimination System (NPDES) Municipal Stormwater Permit

A provision of the CWA, section 402, that identifies municipal stormwater as a point source subject to regulation under the NPDES Permits.

Permittees

The cities of Aliso Viejo, Anaheim, Brea, Buena Park, Costa Mesa, Cypress, Dana Point, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, Laguna Beach, Laguna Hills, Laguna Niguel, Laguna Woods, La Habra, La Palma, Lake Forest, Los Alamitos, Mission Viejo, Newport Beach, Orange, Placentia, Rancho Santa Margarita, San Clemente, San Juan Capistrano, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster, and Yorba Linda; the County of Orange; and the Orange County Flood Control District and any subsequently incorporated cities that become subject to the NPDES permit. Each Permittee is individually responsible for the implementation of the program elements within its jurisdiction.

Point Source

Any discernable, confined, and discrete conveyance, including any conduit pipe, ditch, channel, sewer, tunnel, vessel, or other floating craft from which pollutants are or may be discharged.

Principal Permittee

The County of Orange is the Permittee designated with the responsibility to manage the NPDES Municipal Stormwater Program on behalf of the Permittees.

Protecting Receiving Water Quality (Outcome Level 6)

At Level 6 of the Outcome Pyramid the goal is to maintain and/or improve the receiving water quality. The focus is typically on compliance with regulatory objectives, protection of biological integrity, and beneficial use attainment.

Raising Awareness (Outcome Level 2)

At Level 2 of the Outcome pyramid the programs and control measures focus on raising the awareness and understanding of a target audience on a particular issue.

Reducing Loads from Sources (Outcome Level 4)

At Level 4 of the Outcome pyramid the programs and control measures collect data to allow estimation of loads from pollutant sources that are prevented from being either generated (reduction in use) or discharges to the stormdrain system.

Regional Water Quality Control Boards

The Santa Ana and San Diego Regional Water Quality Control Boards are agencies that implement and enforce Clean Water Act Section 402(p) NPDES permit requirements, and are issuers and administrators of these permits on behalf of EPA within Orange County.

Glossary

Report of Waste Discharge (ROWD)

Constitutes the application to the RWQCB for the Third Term NPDES permit. The ROWD presents the compilation of data from the current and previous permit terms and describes the proposed plan for future activities.

Santa Ana Regional Board

The Regional Board that issues the NPDES Municipal Stormwater Permit for Orange County from the northern Los Angeles County border southward to approximately El Toro Road. The Permittees in the Santa Ana Regional Water Quality Control Board jurisdiction include the County of Orange, the Orange County Flood Control District and the twenty six (26) incorporated cities of Anaheim, Brea, Buena Park, Costa Mesa, Cypress, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, La Habra, La Palma, Laguna Hills, Laguna Woods, Lake Forest, Los Alamitos, Newport Beach, Orange, Placentia, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster, and Yorba Linda.

San Diego Regional Board

The Regional Board that issues the NPDES Municipal Stormwater Permit for Orange County from approximately El Toro Road down southward to the San Diego County border. The Permittees in the San Diego Regional Water Quality Control Board jurisdiction include the County of Orange, the Orange County Flood Control District and the eleven (11) incorporated cities of Aliso Viejo, Dana Point, Laguna Beach, Laguna Hills, Laguna Niguel, Laguna Woods, Lake Forest, Mission Viejo, Rancho Santa Margarita, San Clemente, and San Juan Capistrano.

Second Term Permits

The Regional Boards re-issued the Municipal NPDES Stormwater Permits in 1996, Santa Ana Region CAS0108740 and San Diego Region CAS618030, which covered the time period from 1996-2002.

State Water Resources Control Board

State agency that sets statewide policy for the nine Regional Water Quality Control Boards.

Total Maximum Daily Loads (TMDL)

A written, quantitative analysis and plan for attaining and maintaining water quality standards in all seasons for a specific waterbody and pollutant.

Third Term Permits

The Regional Boards re-issued the Municipal NPDES Stormwater Permits in 2002, Santa Ana Region Order No. R8-2002-0010 and San Diego Region Order No. R9-2002-0002, which covers the time period from 2002-2007.

Glossary

Water Quality Assessment

The use of environmental data and related information to characterize the quality of stormwater discharges and the water bodies that receive these discharges.

Water Quality Planning Process

Systematic and detailed evaluation of the impacts of urban water quality on beneficial uses to determine or validate that actual impairments exist that warrant corrective action.

Local Implementation Plan (LIP) Executive Summary

This document was prepared by the City of Lake Forest to meet the requirements of the Fourth Term NPDES Permits that were issued by the Santa Ana and San Diego Regional Water Quality Control Boards to the County of Orange, the Orange County Flood Control District (OCFCD) and the incorporated cities of Orange County (collectively referred to as Permittees).

Santa Ana Regional Board			San Diego Regional Board		
Order	NPDES No.	Date Adopted	Order	NPDES No.	Date Adopted
R8-2009-0030	CAS618030	05/22/2009	R9-2009-0002	CAS0108740	12/16/2009

The Permittees in the Santa Ana Regional Water Quality Control Board jurisdiction include the County of Orange, the Orange County Flood Control District and the twenty six (26) incorporated cities of Anaheim, Brea, Buena Park, Costa Mesa, Cypress, Fountain Valley, Fullerton, Garden Grove, Huntington Beach, Irvine, La Habra, La Palma, Laguna Hills, Laguna Woods, Lake Forest, Los Alamitos, Newport Beach, Orange, Placentia, Santa Ana, Seal Beach, Stanton, Tustin, Villa Park, Westminster and Yorba Linda.

The Permittees in the San Diego Regional Water Quality Control Board jurisdiction include the County of Orange, the Orange County Flood Control District and the eleven (11) incorporated cities of Aliso Viejo, Dana Point, Laguna Beach, Laguna Hills, Laguna Niguel, Laguna Woods, Lake Forest, Mission Viejo, Rancho Santa Margarita, San Clemente and San Juan Capistrano.

Each permit renewal requires the Permittees to continue to implement ongoing stormwater quality management programs and develop additional programs in order to control pollutants in stormwater discharges. The specific water pollutant control program elements of the Orange County Stormwater Program are documented in the 2003 Drainage Area Management Plan (DAMP) and corresponding Local Implementation Plans (LIPs), which serve as the Permittees' primary policy and implementation documents for compliance with the NPDES Stormwater permits. The main objectives of the DAMP and LIPs are to comply with the NPDES permit requirements and to evaluate the impacts of urban stormwater quality on beneficial uses.

The DAMP and LIP were completed to incorporate the programs developed since 1993, comply with the Fourth Term NPDES Permits and provide a programmatic foundation for future activities. The plans propose a wide range of continuing and enhanced Best

Management Practices (BMPs) and control techniques, which will be implemented and reported on as part of the Fourth Term Permit reports

The City of Lake Forest has developed a LIP which provides a written account of the activities that the City has undertaken and undertaking to meet the requirements of the Fourth Term Permits. All of the said efforts are undertaken to make meaningful improvements in urban water quality. 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 it and the two documents, in effect, act as companion parts of the City's compliance program in total. The LIP is intended to serve as the basis for City's compliance during the five-year life of the Fourth Term Permits, but is subject to updating and modification as the City determines necessary, or as directed by the Regional Boards. The LIP consists of twelve (12) distinct program elements which are summarized in the following sections. Each program element includes a focus on pollution prevention measures as well as program effectiveness assessment.

Introduction (Section A-1)

This element provides some initial background on the program and then describes the City's environmental setting such as geography and climate, watersheds, impaired waterbodies and environmentally sensitive areas, as well as the overall organization of the LIP.

Program Management (Section A-2)

This element describes the framework for the program management activities including the countywide and local coordination as well as the fiscal analysis for the compliance activities and the data management and reporting requirements. This section identifies individual City staff members' areas of responsibility and participation within assigned sub-committees and/or task forces.

Plan Development (Section A-3)

This element describes the framework and approach for the development of the DAMP and the LIP as well as future plan development activities such as BMP effectiveness investigations and improvements in stormwater science.

Legal Authority (Section A-4)

This element describes the City's legal authority for prohibiting unpermitted discharges to the storm drain system and for requiring BMPs in new development and significant redevelopment as well as the legal analyses that can be conducted and corresponding revisions that have been made to the applicable ordinances.

Municipal Activities (Section A-5)

This element describes the programs that have been or will be implemented by the City to effectively address water quality issues related to municipal fixed facilities, field programs and drainage facilities.

Public Education (Section A-6)

This element describes the educational programs that have been or will be implemented by the City and collaborative efforts with the County in order to educate various public and business target audiences about urban stormwater and non-stormwater pollution and obtain their support in preventing pollution.

New Development/Significant Redevelopment (Section A-7)

This element is currently reserved for the significant updates incorporating the updated Water Quality Management Plan and Low Impact Development and hydromodification components. This section will describe the programs that have been or will be implemented by the City in order to effectively address water quality issues at the planning and design stage of project development and redevelopment. This element will include controls to incorporate appropriate and required post construction nonstructural and structural BMPs into the environmental planning and development review process.

Construction (Section A-8)

This element describes the programs that have been or will be implemented by the City in order to effectively address water quality issues during the construction stage of project development. This element includes site controls that address appropriate and required practices for erosion and sediment controls as well as on-site hazardous materials and waste management.

Existing Development (Section A-9)

This program element contains four distinct programs:

Section A-9.1, Industrial Program – This element describes the programs that have been or will be implemented by the City in order to effectively address water quality issues during the operation of industrial businesses. The program consists of site prioritization, inspection and BMP implementation.

Section A-9.2, Commercial Program – This element describes the programs that have been or will be implemented by the City in order to effectively address water quality issues during the operation of commercial businesses. The program consists of site prioritization, inspection and BMP implementation.

Section A-9.3, Residential – This element describes the programs that have been or will be implemented by the City in order to effectively address water quality issues associated with residential areas and activities.

Section A-9.4, Common Interest Areas/Homeowner Associations – This element describes the programs that have been or will be implemented by the City in order to effectively address water quality issues associated with homeowner association areas and the operation and maintenance of common interest areas.

Illegal Discharges/Illicit Connections (Section A-10)

This element describes the programs that have been or will be implemented by the City in order to effectively detect and eliminate illegal discharges and illicit connections to the municipal storm drain system.

Water Quality Monitoring (Section A-11)

This element describes the monitoring programs that have been or will be implemented by the City and the collaborative efforts with the Principal Permittee, for wet and dry weather monitoring in order to identify areas with water quality problems, assist in the prioritization of watersheds for analysis and planning, assist in the prioritization of pollutants and to assist in the facilitation of the development of specific controls to address the identified problems.