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2015 FEB 10 PM 4:53

# AGENDA REPORT

**TO:** JOHN A. FLORES  
INTERIM CITY ADMINISTRATOR

**FROM:** Brooke A. Levin

**SUBJECT:** Sanitary Sewer Management Plan

**DATE:** January 15, 2015

City Administrator  
Approval

Date: 2/10/15

**COUNCIL DISTRICT:** Citywide

## RECOMMENDATION

Staff recommends that the City Council adopt a resolution approving the Sanitary Sewer Management Plan as required by the State Water Resources Control Board's Statewide General Wastewater Discharge Requirements for Sanitary Sewer Systems.

## OUTCOME

Approval of this resolution will formalize the City's Sanitary Sewer System Management Plan and enable the City to comply with the State's General Wastewater Discharge Requirements for Sanitary Sewer Systems.

## BACKGROUND/LEGISLATIVE HISTORY

All entities, including municipalities, that own or operate sanitary sewer systems greater than one mile in length, and convey wastewater to a publicly owned treatment facility in the State of California, are required to comply with the orders issued by the State Water Board. The Board's General Wastewater Discharge Requirements, require that each sewer system operator develop and implement a system-specific Sanitary Sewer Management Plan (SSMP) to facilitate proper funding and management of its sanitary sewer system. Such plan is required to be publicly approved by the governing board at a public meeting and available at the operator's office and/or on the Internet

The City of Oakland owns and operates a sanitary sewer collection system that serves approximately 400,000 and includes approximately 929 miles of sewer pipes. As such the City must develop, approve and implement a SSMP in compliance with the above stated State Water Board mandates.

Item: \_\_\_\_\_  
Public Works Committee  
February 24, 2015

## ANALYSIS

Sanitary sewer systems experience periodic failures resulting in Sanitary Sewer Overflows (SSO). Major causes of SSOs include: grease blockages, root blockages, debris blockages, vandalism, pump station mechanical failures, power outages, excessive storm or ground water inflow/infiltration, sanitary sewer system age and construction material failures, lack of proper operation and maintenance, insufficient capacity and contractor caused damages.

A proactive approach to reduce the number and frequency of SSOs is to develop and implement a system-wide operation, maintenance and management plan. This system-specific plan, known as the Sewer System Management Plan (SSMP), includes provisions to provide proper funding and efficient management, operation, and maintenance of sanitary sewer system, while taking into consideration risk management and cost benefit analysis. Additionally, the SSMP contains a spill response plan that establishes standard procedures for immediate response to an SSO in a manner designed to minimize water quality impacts and potential nuisance conditions.

The mandatory elements of the SSMP are specified below.

- (i) Goal
- (ii) Organization
- (iii) Legal Authority
- (iv) Operation and Maintenance Program
- (v) Overflow Emergency Response
- (vi) Fat, Oil, Grease (FOG) Control Program
- (vii) System Evaluation and Capacity Assurance Plan
- (viii) Monitoring, Measurement, and Program Modifications
- (ix) SSMP Program Audits
- (x) Communication

In addition to the above referenced State Water Board's requirement, the recently approved Sewer Consent Decree with the United States Environmental Protection Agency (US EPA) also requires the City to develop an Asset Management Implementation Plan (AMIP) that is similar to the SSMP. In response to the above dual requirements, the City has revised its SSMP and incorporated to it additional components as required by the US EPA Consent Decree. The combined document is entitled the City of Oakland's Asset Management Implementation Plan and Sanitary Sewer Management Plan (AMIP/SSMP.) This plan is responsive to both the requirements of the US EPA's Consent Decree and the State Water Boards' Statewide General Wastewater Requirements for Sanitary Sewer Systems. The AMIP/SSMP was first developed in 2012 and was last revised in October of 2014 after the Consent Decree's final approval

## **PUBLIC OUTREACH/INTEREST**

All regulators involved with sanitary sewer systems, including the US EPA, and the Regional and State Water Boards, have received copies of Oakland's AMIP/SSMP. Additionally, this document is now available online at the City's website for the public viewing at the following Link: <http://www2.oaklandnet.com/oakca1/groups/pwa/documents/report/oak050527.pdf>

## **COORDINATION**

The AMIP/SSMP was developed in coordination with:

- Oakland Public Works – Bureau of Infrastructure and Operations
- Oakland Public Works – Bureau of Engineering and Construction

In addition, the following offices have reviewed this report and resolution:

- Office of the City Attorney
- City Controller's Bureau

## **COST SUMMARY/IMPLICATIONS**

The resolution will formalize the approval of the City's sanitary sewer management plan, aka, Asset Management Implementation Plan and Sanitary Sewer Management Plan (AMIP/SSMP). This plan reflects the current and planned functions and practices for the operation, maintenance, and capital improvements of the sanitary sewers system. All work required under the AMIP/SSMP is fully funded by the Sewer Service Charge and budgeted for in current and proposed budgets. Capital improvements are included in the upcoming 2015-17 CIP budget request. Similarly, costs to cover maintenance and operations functions are programmed in the Sewer Service Charge Fund.

## **SUSTAINABLE OPPORTUNITIES**

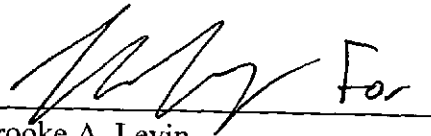
**Economic:** The City's AMIP/SSMP represents improved maintenance and capital improvements to the sanitary sewer system creating new economic opportunities to Oakland residents and contractors. All contractors bidding for work in Oakland must have 50% Local Business Enterprise and Small Local Business Enterprise (LBE/SLBE) participation. In addition, contractors are also required to have 50% of the work hours performed by Oakland residents, and 50% of all new hires are to be Oakland residents, which will result in dollars being spent locally.

**Environmental:** The AMIP/SSMP will improve the overall condition of the City's sanitary sewer collection system and minimize sewer overflows, thus preventing potential harm to property, ground and surface water resources.

**Social Equity.** The AMIP/SSMP is a citywide program and will benefit the entire Oakland community and residents. It will ensure that Oakland has a reliable sanitary sewer collection system for years to come.

For questions regarding this report, please contact Gus Amirzehni, Engineering Design and Right-of-Way Manager at (510) 238-6601

Respectfully submitted,



Brooke A. Levin  
Director, Oakland Public Works Department

Reviewed by  
Michael J. Neary, P.E., Assistant Director  
Bureau of Engineering and Construction

Reviewed by  
Jason Mitchell, Assistant Director  
Bureau of Infrastructure and Operations

Prepared by  
Gus Amirzehni, P.E., Engineering Design and R.O.W.  
Division Manager

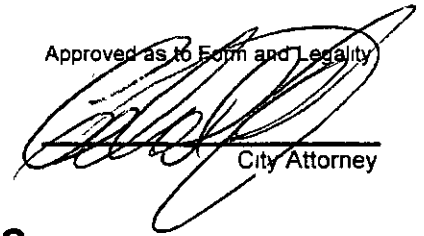
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# OAKLAND CITY COUNCIL

Approved as to Form and Legality



City Attorney

RESOLUTION No. \_\_\_\_\_ C.M.S.

Introduced by Councilmember \_\_\_\_\_

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## RESOLUTION APPROVING THE SANITARY SEWER MANAGEMENT PLAN AS REQUIRED BY THE STATE WATER RESOURCES CONTROL BOARD'S STATEWIDE GENERAL DISCHARGE REQUIREMENTS FOR SANITARY SEWER SYSTEMS

**WHEREAS**, all entities, including municipalities, that own or operate sanitary sewer systems greater than one mile in length and convey wastewater to a publicly owned treatment facility in the State of California are required to comply with the orders issued by the Regional and State Water Boards related to managing sanitary sewer systems; and

**WHEREAS**, the State Water Board's General Wastewater Discharge Requirements requires each sewer system operator develop and implement a system-specific Sanitary Sewer Management Plan (SSMP) to facilitate proper funding and management of its sanitary sewer system; and

**WHEREAS**, such plan is required to be publicly available at the operator's office and/or on the Internet; and be approved by the governing board at a public meeting; and

**WHEREAS**, such plan must include provisions to provide proper and efficient management, operation, and maintenance of sanitary sewer systems, while taking into consideration risk management and cost benefit analysis. Additionally, a plan must contain a spill response plan that establishes standard procedures for immediate response to an SSO in a manner designed to minimize water quality impacts and potential nuisance conditions; and

**WHEREAS**, in addition to the State Water Board's requirement, the recently approved Sewer Consent Decree with the United States Environmental Protection Agency also requires the City to develop a Sanitary Sewer Asset Implementation Plan (AMIP) that is similar to the SSMP; and

**WHEREAS**, the City has revised its SSMP and incorporated to it additional components as required by the US EPA. The combined document is entitled the City of Oakland's Asset Management Implementation Plan and Sanitary Sewer Management Plan (AMIP/SSMP); and

**WHEREAS**, the AMIP/SSMP (Plan) is responsive to both the requirements of the US EPA's Consent Decree and the State Water Boards' Statewide General Wastewater Requirements for Sanitary Sewer Systems; and

**WHEREAS**, as required by the State Water Resources Control Board, the Plan is publicly available at the office of Public Works Department and on the Internet at the following Link: <http://www2.oaklandnet.com/oakca1/groups/pwa/documents/report/oak050527.pdf> ; now, therefore, be it

RESOLVED, by the City Council of the City of Oakland that the Asset Management Plan and Sanitary Sewer Management Plan completed in October 2014 is hereby approved and a copy of said Plan shall continue to be posted on the City of Oakland's website.

IN COUNCIL, OAKLAND, CALIFORNIA, \_\_\_\_\_, 20\_\_\_\_\_

**PASSED BY THE FOLLOWING VOTE:**

AYES - BROOKS, CAMPBELL WASHINGTON, GALLO, GUILLEN, KALB, KAPLAN, REID, and PRESIDENT GIBSON MCELHANEY

NOES -

ABSENT -

ABSTENTION -

ATTEST \_\_\_\_\_  
LaTonda Simmons  
City Clerk and Clerk of the Council  
of the City of Oakland, California