



**BOARD OF DIRECTORS  
EAST BAY MUNICIPAL UTILITY DISTRICT**

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375 - 11th Street, Oakland, CA 94607

Office of the Secretary: (510) 287-0440

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**Notice of Time Change**

**PLANNING COMMITTEE  
MEETING**

**9:00 a.m.**

**Tuesday, January 10, 2017**

Notice is hereby given that on Tuesday, January 10, 2017 the Planning Committee Meeting of the Board of Directors has been rescheduled from 9:15 a.m. to 9:00 a.m. The meeting will be held in the Training Resource Center of the Administration Building, 375 - 11th Street, Oakland, California.

Dated: January 5, 2017

A handwritten signature in blue ink that reads "Lynelle M. Lewis".

Lynelle M. Lewis  
Secretary of the District





**BOARD OF DIRECTORS  
EAST BAY MUNICIPAL UTILITY DISTRICT**

375 – 11<sup>th</sup> Street, Oakland, CA 94607

Office of the Secretary: (510) 287-0440

**AGENDA**

**Planning Committee  
Tuesday, January 10, 2017  
9:00 a.m.  
Training Resource Center**

**(Committee Members: Directors Linney {Chair}, McIntosh and Young)**

**ROLL CALL:**

**PUBLIC COMMENT:** The Board of Directors is limited by State law to providing a brief response, asking questions for clarification, or referring a matter to staff when responding to items that are not listed on the agenda.

**DETERMINATION AND DISCUSSION:**

1. West County Wastewater District Recycled Water Supply Agreement (Horenstein)
2. EBMUD's Lead in Drinking Water Plans (Wallis)

**ADJOURNMENT:**

**Disability Notice**

*If you require a disability-related modification or accommodation to participate in an EBMUD public meeting please call the Office of the Secretary (510) 287-0404. We will make reasonable arrangements to ensure accessibility. Some special equipment arrangements may require 48 hours advance notice.*

**Document Availability**

*Materials related to an item on this Agenda that have been submitted to the EBMUD Board of Directors within 72 hours prior to this meeting are available for public inspection in EBMUD's Office of the Secretary at 375 11th Street, Oakland, California, during normal business hours, and can be viewed on our website at [www.ebmud.com](http://www.ebmud.com).*



## EAST BAY MUNICIPAL UTILITY DISTRICT

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DATE: January 5, 2017

MEMO TO: Board of Directors

THROUGH: Alexander R. Coate, General Manager *ARC*

FROM: Bennett K. Horenstein, Director of Wastewater *BH*

SUBJECT: West County Wastewater District Recycled Water Supply Agreement

### SUMMARY

Staff has been working with West County Wastewater District (WCWD) staff to develop new terms for a recycled water supply agreement. These terms will ensure a more consistent and reliable effluent water quality from WCWD's Water Pollution Control Plant, which feeds the North Richmond Water Recycling Plant (North Richmond) and Richmond Advanced Recycled Expansion (RARE) Water Project. Staff will provide an update on proposed terms for the new agreement to the Planning Committee on January 10, 2017.

### DISCUSSION

Secondary effluent from WCWD's plant is used as feed water for two District recycled water facilities – North Richmond, which has been supplying recycled water for cooling towers at the Chevron Richmond refinery since 1995, and RARE, which provides recycled water for Chevron's boilers. The District's agreement with Chevron includes limits on a range of recycled water constituents, mainly to protect the cooling towers and boilers from corrosion and scaling.

Over the past two years, effluent from WCWD's plant had sustained high ammonia and turbidity levels. To maintain recycled water delivery to Chevron, the District has had to blend potable water with treated recycled water and implement "breakpoint chlorination," a costly and unreliable practice. In addition, the District has frequently violated monthly North Richmond permit turbidity limits, resulting in unsustainable regulatory exposure.

The WCWD commenced construction of significant upgrades at its plant in May 2016. Construction is expected to be completed in late spring 2017. These upgrades will allow WCWD to produce effluent that meets higher water quality standards beyond those currently required by its current National Pollutant Discharge Elimination System (NPDES) permit. These higher water quality standards are consistent with the needs of the North Richmond and RARE facilities and will reduce the District's treatment costs at the facilities, as well as better ensure regulatory compliance.

District and WCWD staff have reached consensus on draft terms for a new agreement. Per the draft terms, the District will pay WCWD the additional power and chemical costs incurred by

WCWD to treat to a higher level water quality (as measured by ammonia concentration in the effluent) than that required by WCWD's existing NPDES permit. If the WCWD NPDES permit contains more stringent water quality requirements in the future, these costs to the District will decrease. Payment will be made on a monthly basis and only if the ammonia concentration of the effluent delivered by WCWD meets specified requirements for that month. The ammonia concentration limits are reasonable for WCWD to consistently achieve, will improve reliability at both North Richmond and RARE, and will reduce the overall treatment costs for the District at North Richmond by reducing chemical consumption.

The treatment costs at North Richmond can be reduced further if the WCWD effluent has an even lower ammonia concentration. However, this lower ammonia concentration is more difficult to consistently achieve. Hence, as an added incentive for WCWD to provide effluent with this lower ammonia concentration, the District will provide WCWD payment equivalent to the District's reduced chemical costs when effluent water quality is achieved. These terms will ensure a more consistent and reliable effluent water quality from WCWD's plant to North Richmond.

#### **FISCAL IMPACT**

For the past several years, in an effort to receive improved effluent water quality from the WCWD plant, the District has been paying WCWD between \$12,400 and \$15,900 per month for costs related to the operations of additional treatment processes. It is estimated that the monthly costs under this new agreement will be approximately \$17,000 per month. Although the proposed monthly payment is higher than the current agreement, the savings in chemicals required at North Richmond due to the improved effluent water quality provided will result in a net decrease in overall operating costs at North Richmond.

#### **NEXT STEPS**

Staff will coordinate a meeting with both agencies' Board representatives to discuss the new draft terms. Following the joint Board meeting, staff will work with WCWD staff to finalize the new agreement for presentation and approval by the Boards of both agencies.

BKH:MAB:bmy

## EAST BAY MUNICIPAL UTILITY DISTRICT

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DATE: January 5, 2017

MEMO TO: Board of Directors

THROUGH: Alexander R. Coate, General Manager *ARC*

FROM: Michael J. Wallis, Director of Operations and Maintenance *myw*

SUBJECT: EBMUD's Lead in Drinking Water Plans

### INTRODUCTION

The District has a long history of addressing lead in drinking water. Since the late 1980s, the District has maintained an ongoing program to replace all lead water service laterals (services), the small diameter pipes connecting the water main to the customer's meter. In the 2000s the District successfully pushed to have lead removed from plumbing faucets and fixtures at the state and national level. With the promulgation of the Lead and Copper Rule (LCR) in 1991, the District conducted a corrosion control study which led to the District's current corrosion control practice. The District has been in compliance with the LCR since 1992 and will conduct compliance sampling in 2017. This memo summarizes the District's current efforts to address lead in drinking water that will be presented at the January 10, 2017 Planning Committee Meeting.

### DISCUSSION

#### Fruitvale Area

On December 19, 2016, Reuters news service (Pell and Schneyer) filed a report on blood lead levels in children detailing exposure from deteriorating lead paint, lead in soils, and lead in drinking water (highlighting Flint, Michigan). The authors compiled blood lead level data from the states by zip code and provided a map detailing the results. A December 28, 2016 SFGate article used this data, identifying the children in the Fruitvale area of Oakland as having high blood lead levels. Of the reported 500 children tested in Fruitvale, 7.57% had elevated blood lead levels above the CDC recommended 5 µg/dL. Across the country, about 2.5% of children under 72 months had blood lead levels that exceed 5 µg/dL.

As a result of these news articles, the District received and responded to 16 customer calls regarding lead in drinking water. In responding to these calls, the District offered free lead sampling of the customer's water and seven customers requested sampling. The District began distributing the sampling kits on January 4, 2017, and expects results in two weeks. These samples will be analyzed using the District's own laboratory.

### **Customer Tap Sampling Program**

The District began developing a customer lead tap sampling program in 2016 for customers who want to have their water tested. This program will use a District-issued voucher to have one sample from the customer's home processed by a commercial laboratory. Due to the unknown demand and to ensure the results are impartial, this work will be contracted to a certified laboratory selected by the District. The program will be run as a pilot in order to determine what demand might be placed on District resources, if the program was made permanent.

A request for proposals (RFP) was released in early December to about ten qualified California laboratories. The RFP closed on December 23, 2016, and one proposal was received. That proposal is currently being reviewed by staff. Once questions raised by the review have been answered, a contract will be presented for consideration by the Board of Directors in late January, with the program beginning in February.

### **Lead Service Line Replacement**

In March 1989, in anticipation of the LCR, the District initiated a program to replace all of the District's lead services. The District reviewed all paper records to identify known lead services and began replacement. The last known lead service on record was replaced in 1997. Despite this service area-wide effort, District crews still occasionally find and replace lead services in the service area. When found, these services are replaced during repair work or planned pipeline replacements.

SB 1398 (Public water systems: lead user service lines; September 2016) requires water systems to inventory their systems for lead pipes and to establish plans to replace them. In March 2016, the District began a review of existing files and databases to determine if there was a single comprehensive electronic database of service line material type. Based on the review, no comprehensive database existed, and a project to develop a database was initiated. An initial data sample review of service line (tap) records occurred in April 2016. Field inspections were carried out to verify the written records and a number of inconsistencies were discovered.

As the District identifies lead services and executes immediate replacement, staff provides a customer outreach package to affected residents. The outreach package includes information about lead, internal property plumbing inspection recommendations, free District-managed lead tap sampling before and after replacement, and District inspection of customer's external pipe materials. Since October 2016, the District has replaced 11 lead service lines.

### **School Lead Tap Sampling Program**

The State Water Resources Control Board Division of Drinking Water (DDW) intends to issue an amendment to the Domestic Water Supply Permit to all community water systems (CWS) serving public, private, magnet, or chartered K-12 schools to sample the schools in their service area for lead in drinking water, upon written request from the school district. The CWS would



also be responsible for developing a sampling plan, collecting the samples, analyzing each sample, conducting any necessary repeat samplings, reporting the results, and providing communication and educational materials.

The District has identified 640 accounts associated with schools. Between meeting with the school representative to conduct a site evaluation to select up to five sampling locations, sample collection, sample analysis, repeat samplings, delivery of results, consultation/ education (to reduce lead exposure), and public meetings with parents, this permit amendment cannot be accomplished with existing District resources.

Since the sampling in California schools is a one-time event with an unpredictable workload, the District will contract out the work. District staff will be needed to manage the contract and data, ensure compliance with the permit amendment, and provide training. This will require the addition of a limited term position beginning in FY17.

The permit amendment will require the District to respond to all written requests for sampling within 60 days from the date of the request and meet with school officials to develop a sampling plan within that same timeframe. The District then has 90 days from the date of the original request to complete the sampling plan and collect the samples or must request an extension from DDW. The DDW has not provided a schedule for issuance of the permit amendment.

ARC:MJW:ss

