



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

375 - 11th Street, Oakland, CA 94607

Office of the Secretary: (510) 287-0440

Notice of Time Change

**PLANNING COMMITTEE
MEETING**

9:00 a.m.

Tuesday, June 9, 2015

Notice is hereby given that on Tuesday, June 9, 2015 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: June 4, 2015

A handwritten signature in cursive script, reading 'Lynelle M. Lewis', is written over a horizontal line.

Lynelle M. Lewis
Secretary of the District

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

375 – 11th Street, Oakland, CA 94607

Office of the Secretary: (510) 287-0440

AGENDA

**Planning Committee
Tuesday, June 9, 2015
9:00 a.m.
Training Resource Center**

(Committee Members: Directors McIntosh {Chair}, Linney 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. Update of East Bay Watershed Master Plan (Sykes)
2. Bay Area Regional Reliability and Regional Desalination Project Updates (Sykes)
3. Faria Pressure Zone Improvements Project Update (X. Irias)
4. Water Conservation Services for Multi-Family Residential and Senior Housing (Hong)

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.

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: June 4, 2015

MEMO TO: Board of Directors

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

FROM: Richard G. Sykes, Director of Water and Natural Resources *RGS*

SUBJECT: Update of East Bay Watershed Master Plan

INTRODUCTION

In 1996, the EBMUD Board of Directors adopted the East Bay Watershed Master Plan (EBWMP), a successor to the previous Land Use Master Plan of 1969. This document has served as the main guidance for managing the resources of the 28,000 acres that comprise the watershed, with an equal emphasis on protecting water quality and enhancing biodiversity. The EBWMP has also provided the basis for specific detailed plans for fire and fuels management, grazing, forestry, and most recently, a Habitat Conservation Plan. In the twenty years since its preparation, some of the information in EBWMP has become outdated, and other developments such as climate change and invasive species have prompted staff to recommend updating and revising it to better meet current and anticipated needs. Staff will give a presentation on the EBWMP update at the June 9, 2015 Planning Committee meeting.

SUMMARY

Since its adoption in 1996, the EBWMP has helped to guide day-to-day decisions on the watershed and provided an important foundation for issue-specific plans. However, it is now timely to review the plan to update information, document progress on a wide variety of actions specified in the plan, draft revisions to address new management needs, and orient the plan to be responsive to issues such as climate change. Over the last twenty years of managing the East Bay watershed, staff have gained considerable experience and expanded their knowledge base, which will be reflected in the updated plan. In addition, the District entered into a Habitat Conservation Plan with the United States Fish and Wildlife Service, which provides a permit for many of the activities outlined in the EBWMP. Consistent with Policy 9.04 – Watershed Management and Use, public notification and a hearing must be conducted before any modifications to the EBWMP are adopted.

DISCUSSION

The EBWMP has provided vital guidance for a number of key management decisions such as:

- Banning polluting, 2-stroke motors on San Pablo Reservoir.

- Implementing erosion control measures.
- Coordinating with Diablo Fire Safe Council and Hills Emergency Forum.
- Making decisions on special use requests such as foot races, endurance equestrian events, model boat and airplane use, campouts, etc.
- Developing an outreach program for youth participation in watershed restoration activities.

However, at this point, the EBWMP needs to be responsive to new developments and conditions. Inventories of listed species and land resources are now outdated, and a number of new concerns have arisen such as climate change, invasive quagga mussels, sudden oak death, and blue-green algae contamination. Practices such as adaptive management are now routinely used to refine management practices, and should be incorporated into EBWMP. Certain advocacy groups have expressed an interest in steelhead restoration in certain creeks, and the plan should also identify key parcels for potential acquisition to enhance water quality protection. Staff is also reviewing the management plans for other agencies with watershed responsibilities including San Francisco PUC, Contra Costa Water District, and Marin Municipal Water District, and visiting their watersheds and facilities.

Staff anticipates that most of the revisions will be broadly supported by stakeholders. However, community access issues are likely to draw significant interest from user groups. In the public review process for the current master plan, bicycle access to the trail system was discussed in a series of community meetings. The Board's decision to prohibit bicycle access was reached after much consideration but bicycle advocates continue to press for the restriction to be lifted. In addition, dog owners are expected to request expanded access to trails on watershed lands.

FISCAL IMPACT

If the Board adopts revisions to the EBWMP that consist mainly of informational updates and do not change access policies, the fiscal impact will be minimal. If access for new users is allowed, patrol and enforcement costs will increase in proportion to the extent of that expanded access. If the plan is substantively revised, compliance costs under CEQA may also increase costs. No external consulting costs are anticipated for this update.

NEXT STEPS

Following direction from the Board, staff will complete revisions to the EBWMP and propose a schedule for one or more public meetings during the summer to present the update and receive comments. Based on the Board's response to public input, staff will prepare the final draft for potential adoption in the fall of 2015.

ARC:RGS:DW:dec

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: June 4, 2015

MEMO TO: Board of Directors

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

FROM: Richard G. Sykes, Director of Natural and Water Resources *phyke*

SUBJECT: Bay Area Regional Reliability and Regional Desalination Project Updates

SUMMARY

This memorandum provides an update on Bay Area Regional Reliability (BARR) effort and the Regional Desalination Project (RDP). A discussion and presentation will be provided at the June 9, 2015 Planning Committee meeting.

EBMUD, together with seven other Bay Area water agencies, is developing a Bay Area Regional Reliability Plan (BARR Plan) evaluating how regionally focused water supply, water exchange, water treatment, and intertie projects can build drought resiliency for the Bay Area. On June 23, EBMUD's Board will be asked to consider a Memorandum of Agreement (MOA) for BARR Plan preparation and a resolution authorizing the submittal of a grant application to the U.S. Bureau of Reclamation (Reclamation) for BARR Plan funding.

EBMUD together with four other Bay Area water agencies has evaluated how the RDP might meet the water needs of the five agencies. A cost and scope has been prepared for development of environmental documentation, water rights permitting, and preliminary design. After evaluating the cost and scope, the five agencies have determined that RDP will be considered as part of the BARR Plan while identifying outside funding opportunities.

DISCUSSION

Bay Area Regional Reliability (BARR) Update

In the spring of 2014, eight Bay Area water supply agencies which include Contra Costa Water District (CCWD), EBMUD, Santa Clara Valley Water District (SCVWD), San Francisco Public Utilities Commission (SFPUC), the Zone 7 Water Agency (Zone 7), Alameda County Water District (ACWD), Marin Municipal Water District (MMWD) and the Bay Area Water Supply and Conservation Agency (BAWSCA) adopted the Bay Area Regional Reliability Principles (BARR Principles) guiding the agencies in their joint activities. EBMUD adopted the BARR Principles on May 27, 2014.

BARR Next Steps

The BARR Plan will identify projects that provide water supply benefits to the region, considering how new projects might leverage capacity in existing facilities. Each agency will

soon be asked to commit \$50,000 in funding to support the development of the BARR Plan. The agencies will also seek grant funding to cover a portion of the costs of BARR Plan preparation.

EBMUD's Board of Directors will consider the BARR MOA and the District's \$50,000 financial share on June 23. In addition, EBMUD would submit, on behalf of the eight agencies participating in the BARR Plan, an application to Reclamation for funding under their WaterSmart grant program. On June 23, the Board will be asked to consider a resolution that authorizes the District to submit that application on behalf of the eight agencies.

Regional Desalination Project (RDP) Update

Since the early 2000s, EBMUD has been studying a Bay Area RDP along with Zone 7, CCWD, SFPUC, and SCVWD. In 2009, the RDP partners completed a pilot study at CCWD's Mallard Slough site in eastern Contra Costa County that confirmed the technical feasibility of treating brackish water to potable standards. Site-specific analyses of the East Contra Costa site to further evaluate the project's feasibility were completed in 2013. In 2014, the agencies decided to evaluate the RDP in the context of BARR, before further significant investment in the RDP.

In light of the current historic drought conditions, the five agencies prepared an estimate of the scope, budget, and schedule to advance the RDP through CEQA, permitting, and preliminary design. The cost of the combined work was estimated at \$6.35 million. Work would be completed in approximately 5 years. Challenges associated with RDP at the Mallard Slough location include environmental and water rights issues with the new realization that the previously identified water rights may be subject to curtailment during droughts.

RDP Next Steps

Due to the high costs for the next phase and water rights uncertainties, the partner agencies agreed to evaluate RDP as a part of BARR while continuing to identify outside funding possibilities.

ARC:RGS:MTT:acr

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: June 4, 2015

MEMO TO: Board of Directors

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

FROM: Xavier J. Irias, Director of Engineering and Construction *XJI*

SUBJECT: Faria Pressure Zone Improvements Project Update

INTRODUCTION

The Northwest Specific Plan (NWSP) is an approved residential development located in the City of San Ramon (City) encompassing 350 acres, which includes the Faria Preserve (286.5 acres) and the Western Plan Area (63.5 acres) (see attached vicinity map). District staff determined that major new water facilities (i.e., water tanks, pumping plant, and transmission pipelines) are required to serve the development. This memo provides an update on the project in advance of the Board of Directors consideration of project approval and adoption of findings of the City's certified environmental documentation and the Mitigation Monitoring and Reporting Program (MMRP) to construct the major new water facilities. Staff will provide a presentation to the Planning Committee on June 9, 2015.

DISCUSSION

Background

District staff has been working with the City and potential developers regarding the development of the NWSP since the early 2000s. In June 2014, the District entered into an Advanced Payment Agreement (APA) with the developer of the Faria Preserve by which the developer was required to pay in advance the full cost to complete the planning phase for the major new water facilities required to serve the NWSP. Under the APA, staff prepared a Faria Pressure Zone Facilities Plan and reviewed the environmental documentation certified by the City to ensure that the major new water facilities were adequately addressed and analyzed.

Project Purpose and Description

The purpose of the Faria Pressure Zone Improvements Project is to plan, design and construct major new water facilities to serve the planned growth of the NWSP, located within the District's service area, by creating a new Faria Pressure Zone (PZ). The major new water facilities in the new Faria PZ were sized to provide adequate storage and pumping capacity for daily and emergency operations. The Faria PZ will serve the entire NWSP area which includes the Faria

Preserve and the Western Plan Area. The Faria Preserve is located west of San Ramon Valley Boulevard, north of Crow Canyon Road, and east of Bollinger Canyon Road and includes 740 single- and multi-family homes, a community park, a rose garden, a pool facility, an educational facility and a house of worship. The Western Plan Area is located west of Bollinger Canyon Road; no development is proposed at this time, although the NWSP projects 44 homes on this site.

Major New Water Facilities

The NWSP will account for approximately 0.34 million gallons per day average annual water demand, which is accounted for in plans such as the Urban Water Management Plan 2010 and Water Supply Management Program 2040. The major new water facilities required to serve the NWSP include a new 1.6-million-gallons-per-day Faria Pumping Plant to be located at the District's existing San Ramon Reservoir site, new 0.5-million-gallon twin Faria Reservoirs, and associated inlet/outlet (I/O) pipeline to be located within the northwest portion of the Faria Preserve. Approximately 10,000 feet of transmission pipeline, which includes relocating a portion of the existing San Ramon Reservoir I/O pipeline are also required. Additional distribution pipeline will be installed by the developer as the individual neighborhoods are constructed under separate water main extension agreements with the District. The NWSP is not a candidate for recycled water from the San Ramon Valley Recycled Water Project as the development consists mostly of residential units with little potential of recycled water use and it would not be cost effective to extend recycled water mains under Interstate 680 to the development which is located about one mile away from any planned future recycled water supply facilities and infrastructure; to extend recycled water facilities under the freeway at this location would require tunneling under the freeway. In addition, the total amount of water allocated to the District from the Dublin San Ramon Services District-East Bay Municipal Utility District Recycled Water Authority is fully accounted for in existing and planned recycled water projects on the east side of Interstate 680.

Environmental Documentation

The City prepared the NWSP/Faria Preserve Community Environmental Impact Report (EIR) and MMRP, which analyzed potential impacts and identified mitigation measures associated with construction of the development project including the District's tanks, pumping plant and pipelines necessary to provide water service to the development. The City approved the NWSP/Faria Preserve Community EIR and MMRP in November 2006. In 2012, the project was purchased by a new developer, and the City subsequently prepared a Mitigated Negative Declaration (MND) for the Faria Preserve Community Project describing a reduced development footprint (number of dwelling units reduced from 786 to 740), shifting development away from the northwest corner of the site, and enhanced landscaping in specific areas. The City approved the Faria Preserve Community Project MND and provided Conditions of Approval under Resolution 05-14 in May 2014.

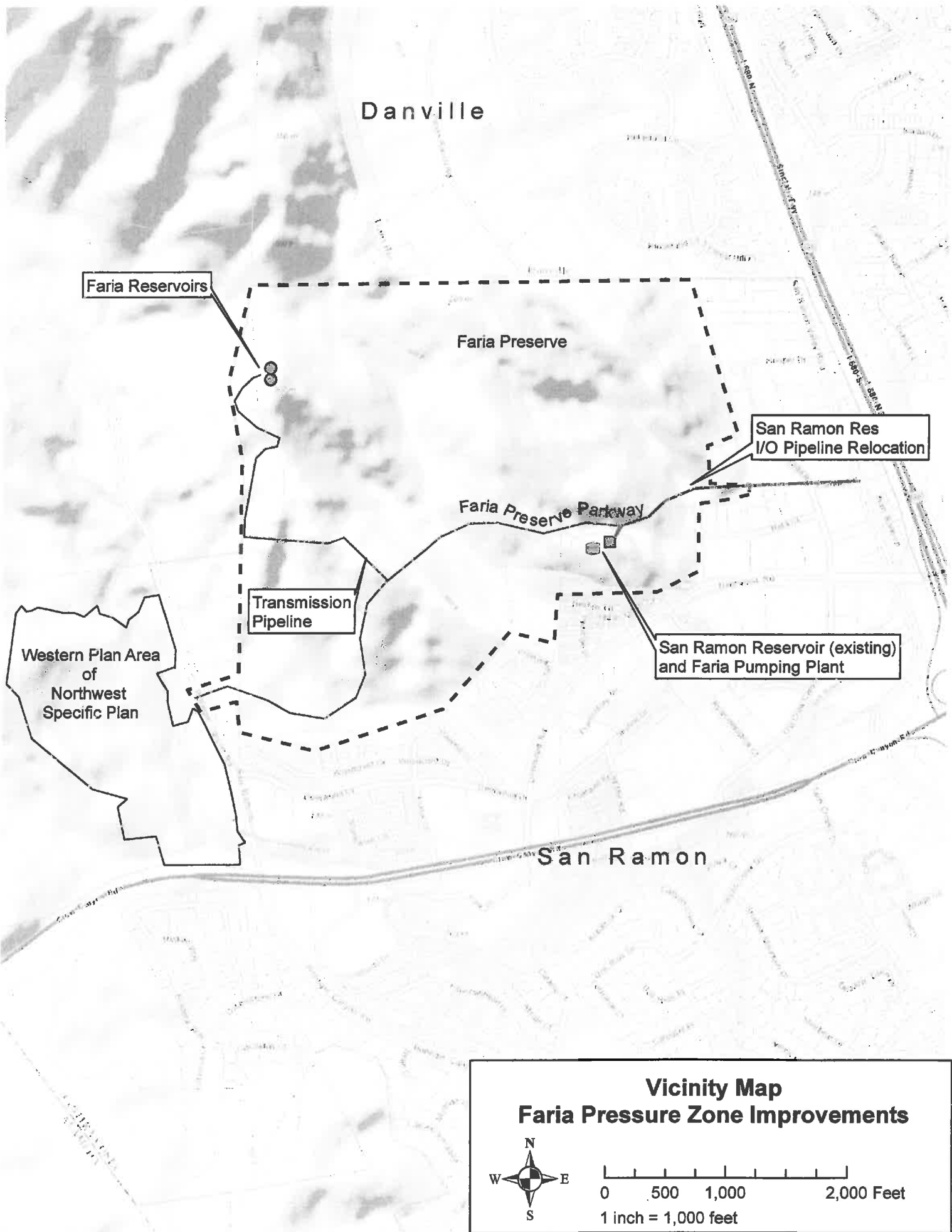
As part of the APA, the District completed a California Environmental Quality Act (CEQA) analysis to identify the impacts and mitigation measures applicable to the construction of the major new water facilities required to serve the project. The CEQA analysis provides the foundation for the District, as a responsible agency, to reference the City's certified EIR and MND in addressing the environmental impacts related to construction of the major new water facilities. Staff concluded that all potential impacts related to the construction of the major new water facilities to serve the NWSP will be mitigated to a level of less than significant. All applicable mitigation measures associated with the construction of the major new facilities outlined in the City's EIR and MND will be incorporated into the District's facility specifications for design and construction.

NEXT STEPS

The Board of Directors will consider project approval and adoption of findings and the MMRP to construct the major new water facilities, which relies on the City's certified environmental documentation, on June 9, 2015. Subsequent to Board of Directors approval, the District and developer will enter into a second APA for the detailed design of the major new water facilities by which the developer is required to pay in advance the full cost of designing the major new water facilities; the design is estimated to take approximately 12 to 18 months to complete. Upon completion of the design, the District will enter into a System Capacity Charge (SCC) Guaranty Agreement by which the developer is required to pay in advance the full cost of constructing the major new water facilities; construction is estimated to take approximately 12 to 18 months to complete. Per the SCC Guaranty Agreement, as new water meters are installed and the corresponding SCC is paid, the developer is refunded the collected SCC costs on an annual basis up to the costs paid for the planning, design and construction of the major new water facilities.

ARC:DJR:dks

Attachment



Vicinity Map
Faria Pressure Zone Improvements



0 500 1,000 2,000 Feet
1 inch = 1,000 feet

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: June 4, 2015

MEMO TO: Board of Directors

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

FROM: Sherri A. Hong, Manager of Customer and Community Services *shhong*

SUBJECT: Water Conservation Services for Multi-Family Residential and Senior Housing

INTRODUCTION

The District's Water Conservation Master Plan (WCMP) includes multiple education and outreach strategies to foster support and implementation of conservation practices among all customer sectors. District Water Conservation Program initiatives include a portfolio of services designed to meet the unique needs of our diverse customer base, and offer a range of services to support customers in their efforts to use water efficiently. To reach master-metered customers and renters that do not receive a water bill, the District promotes conservation services through a number of initiatives. The District has increased outreach activities to multi-family tenants, property managers, and senior housing customers in response to the ongoing drought. Staff will provide a presentation on current and planned FY16 conservation initiatives for master-metered customers to the Planning Committee on June 9, 2015.

DISCUSSION

Education and Outreach

District water conservation education and outreach includes community workshops, tabled events, and community presentations. Community events and trade shows help raise the District's visibility within the community and are a means to deliver conservation messages to the general population or specific trade or consumer groups such as building owners, property managers, tenants, and irrigation contractors. Workshops and training programs help develop the knowledge and link to professional resources for District customers to adopt water-efficient technology and practices. In FY16, staff will be distributing additional conservation flyers and referral lists for District and resource partner services (e.g., free devices, Bay Friendly Landscaping) to multi-family and senior housing customers.

The District's online conservation services platform includes an interactive store for customers to order and download informational materials, publications, free conservation devices, and self-survey kits. The online home water works calculator provides tips for users on how to reduce indoor and outdoor water use to manage their water use whether they are individually metered or not.

Water Use Surveys

The District water use surveys involve direct interaction with customers to promote water-efficient behavior and hardware installations. Surveys are important educational interventions which include a review and analysis of water consumption and an introduction to other District conservation services, including technical and financial assistance. In 2014 and 2015, the District utilized a variety of implementation methods including in-person, telephone, and self-surveys (via mail and online). Staff will continue to market conservation services including water-use surveys for master-metered customers through the website, community events and outreach to property management organizations.

Free Device Distribution

The District's device distribution program provides customers with free low-cost, water-efficient devices including showerheads, faucet aerators, shower diverter valves, toilet bags, dye tabs, and hose nozzles. The District has pursued partnerships with a number of community-based organizations, non-profits, and other service providers to expand conservation efforts among harder-to-reach customer sectors that may not necessarily have a direct water account with the District such as multi-family residential, low-income and senior housing. A number of District initiatives also include targeted outreach to some master-metered commercial businesses. These partnerships are an integral part of our strategy to support customers' efforts towards saving water and enhance our ability to reach customers.

One long-standing District partnership has been with the California Youth Energy Services (CYES) Student Retrofitters Program, a project of the non-profit Rising Sun Energy Center. The District has been supporting CYES through small water conservation educational grants since 2002. The CYES Student Retrofitters Program presents an excellent opportunity for the District to cost-effectively educate customers, teachers, students, and the community about water, District services, and conservation practices, especially during water shortage emergencies. Students, under CYES training and supervision, provide service area residents with free water (and PG&E energy) conserving devices.

Over a period of 15 years, CYES has grown from a summer-intern to a year-round program and has seen an increase in demand for their services across a number of East Bay communities including low-income and multi-family homes and non-profit organizations. CYES's role as a leader in environmental education is demonstrated by the variety of cooperative programs it has developed with local organizations and agencies responsible for conserving water resources. Partnerships include the California Public Utility Commission, Cities of Richmond, Berkeley, Hayward and Oakland, Green Neighbors of the East Bay, PG&E, Berkeley Youth Works, Community Energy Services, and Berkeley EcoHouse.

Over the twelve year period 2002-2014, CYES has installed free water-efficient showerheads and faucet aerators in more than 13,000 dwelling units across 11 cities within the District's service area, including Alameda, Albany, Berkeley, El Cerrito, Emeryville, Oakland, Richmond, San Leandro, and San Pablo. In the summer of 2015, CYES will be adding homes in Walnut Creek and the Lamorinda area.

District staff is also coordinating with PG&E and their third-party service provider Robert Heath and Associates (RHA) on their Energy Savings Assistance (ESA) program provided to joint East Bay customers. PG&E has engaged RHA to assist in the development of a plan to integrate existing water utility conservation program offerings. PG&E is currently serving in excess of 120,000 low-income households per year with the ESA program, conducting home energy audits and installing energy-saving measures, as well as installing simple water-saving measures, including faucet aerators, low-flow shower heads, and thermostatic shower shut-off valves. In 2014, the ESA program served over 11,000 customers within the District's service territory, installing over 36,000 water savings measures.

FISCAL IMPACT

The District's education, outreach and incentives for low-income, senior and other master-metered customers are funded within the annual water conservation program budget.

NEXT STEPS

The District continues to market, conduct community outreach, and partner with other organizations to maintain a core community presence and provide sustained conservation education services. Future activities will emphasize professional training, community partner and stakeholder group participation, and outward-facing communications to connect customers with District conservation services, drought information and water use restrictions. Staff will evaluate our low-income assistance participants to determine water use practices, owner-renter relationships and opportunities for advancing conservation support. Specific outreach to master-metered customers will be maintained through online web services, direct mail, and targeted outreach to homeowner associations, property management companies, professional associations, and local business chambers of commerce. A drought response effort will include District Water Savings Team assigned routes for multi-family residential properties and on-site managers to ensure relevant information and services are reaching the end user in addition to property management staff.

ARC:SAH:rwh:dlb

