

Dos Osos Reservoir Replacement Project -Update

Planning Committee
May 9, 2017

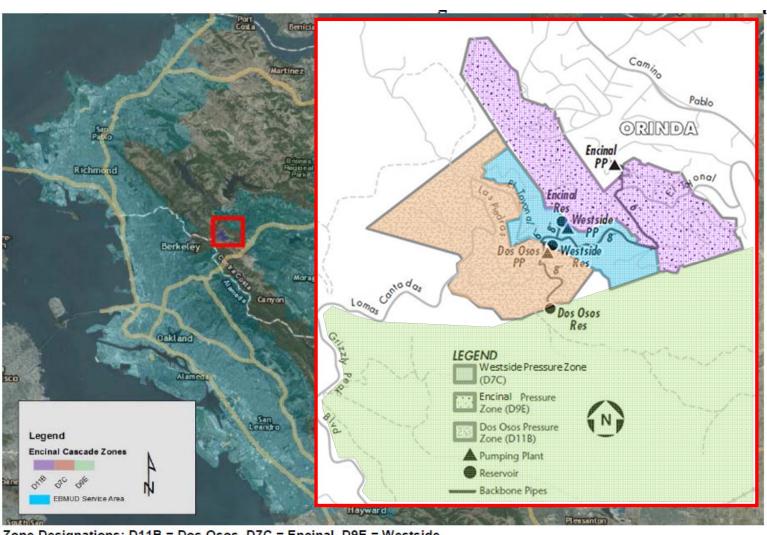
Dos Osos Reservoir Replacement Project - Update



- Project Location and Need
- Project Overview
- Project Site Layout
- Environmental Impacts
- Environmental Permitting
- Next Steps

Project Location - Encinal Cascade





Zone Designations: D11B = Dos Osos, D7C = Encinal, D9E = Westside

Project Need



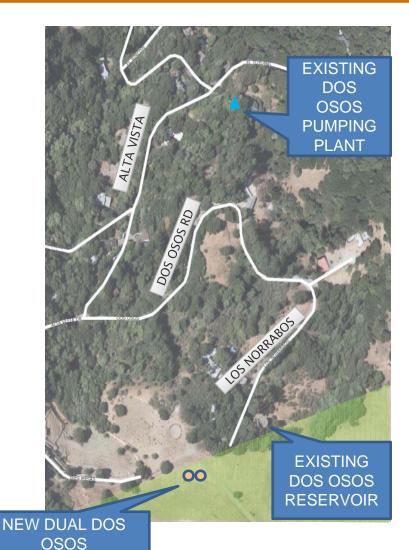
- Aging Infrastructure
- Water Quality
- Level of Service



Project Overview



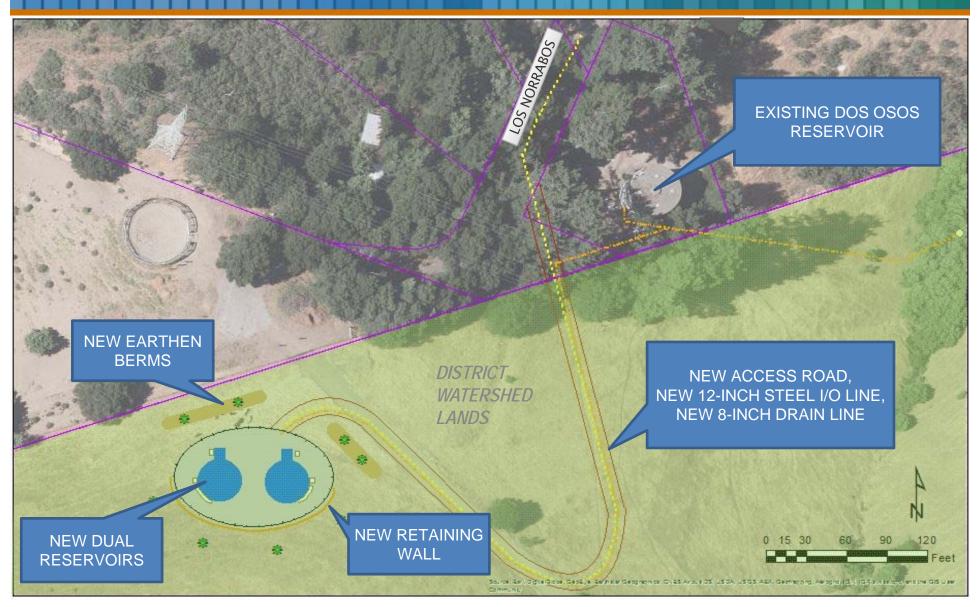
- Replace existing Dos Osos Reservoir
- Rehabilitate existing Dos Osos Pumping Plant
- Demolish existing Dos Osos Reservoir



RESERVOIRS

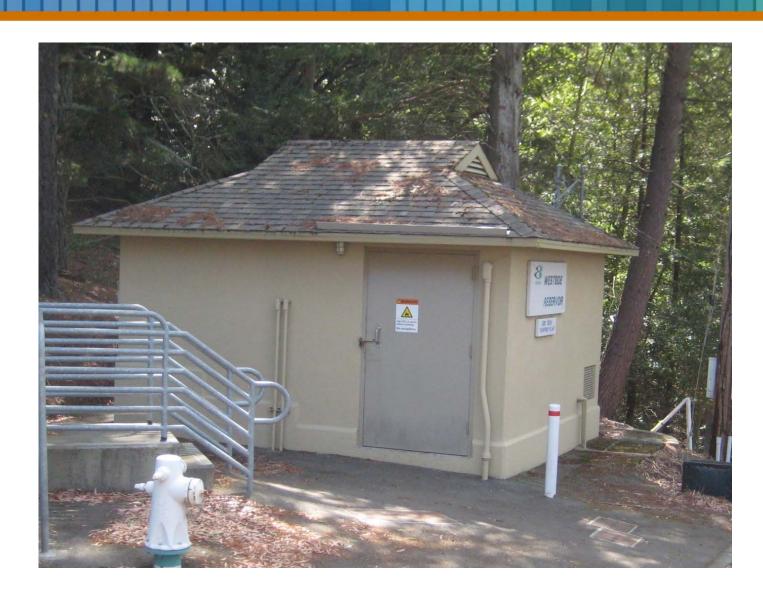
Proposed Dos Osos Reservoir Replacement Site Plan





Dos Osos Pumping Plant Rehabilitation





Environmental Setting





- · Rural residential area
- District watershed lands
- Open, hilly grazed annual grassland
- · Coast live oak woodland



CEQA Analysis



- Mitigated Negative Declaration (MND)
- EBMUD Standard Practices and Procedures
- Mitigation Monitoring and Reporting Program



Dusky-footed woodrat

Geological Mitigations



Geotechnical Investigation and Potential Recommendations

- Replace or improve soils with high liquefaction potential
- Remove landslide deposits
- Apply slope stabilization techniques



Biological Mitigations



- Species-specific mitigations
 - Sensitive plants
 - Alameda whipsnake
 - Dusky-footed woodrat
 - Rare snail
- Environmental fencing
- Pre-construction surveys
- Worker training
- Avoidance measures



Rayless arnica



Shoulderband snail

Environmental Permitting



- Habitat Conservation Plan
- Incidental Take Permits
- Regulatory agency coordination
- Lengthy permitting process



Alameda whipsnake

Next Steps



- Release MND May 18, 2017
- End of comment period June 19, 2017
- · Board approval August 2017
- Environmental Permitting
 - · 2 to 3 years
- Design FY21
- Construction FY23

Questions







Pipeline R&BUILD

Replace. Renew. Reliable.

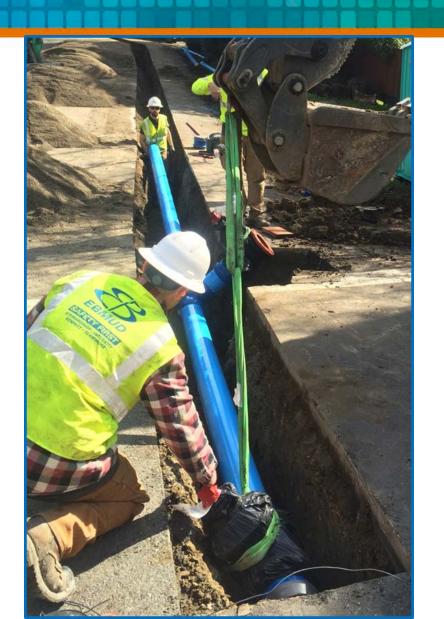
Planning Committee

May 9, 2017

Agenda



- Pipeline Replacement Program
- Pipeline Rebuild Team
- Pilots
 - ➤ Design
 - **≻** Construction
 - > Materials
 - > CIPP
- Long-Term Approach



Main Breaks & Pipe Replacement





Risk Model





- Pipeline Criticality
- CustomerProperty Impact
- Social Impact
- Environmental Impact
- Difficulty of Repair

- Pipe Leak History
- Pipe Age

| | Likelihood of Failure | | | | | |
|------------------------|-----------------------|----------|-----|--------|------|-----------|
| Consequence of Failure | | Very Low | Low | Medium | High | Very High |
| | Very Low | | | | | |
| | Low | | | | | |
| | Medium | | | | | |
| | High | | | | | |
| | Very High | | | | | |

Pipeline Rebuild





















Rebuild Teamwork



Pipeline R&BUILD

Replace. Renew. Reliable.

YARD TOUR

January 2017





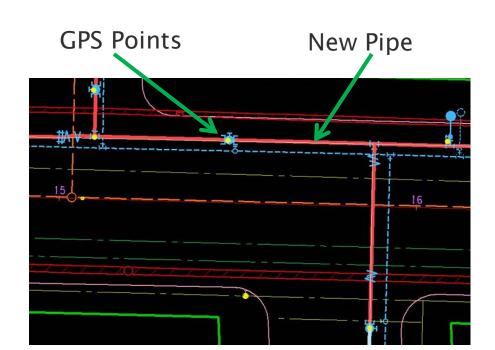




Streamline Design



- Simplify drawings
- · Refine survey needs
- · Collaborate
- · Utilize mobile GPS devices





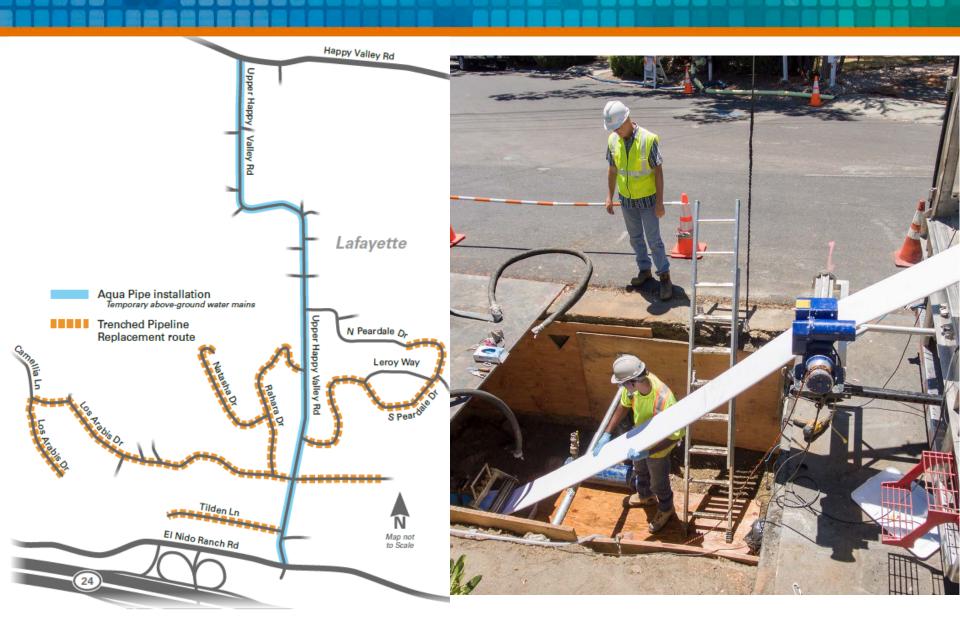
Construction





Current Project



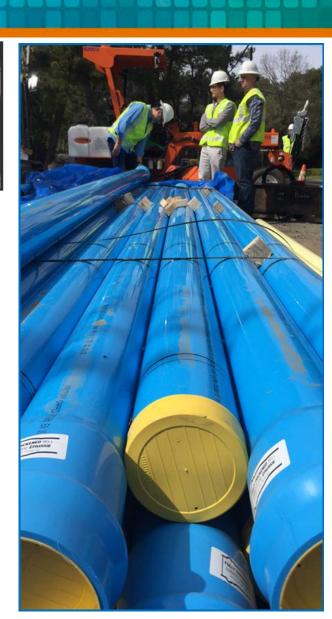


Piloting Materials



- · PVCO, Bionax-SR
 - lighter & stronger
 - leads to better productivity
 - seismic resilient pipeline





Cornell Testing Laboratory





ORIENTED POLYVINYL CHLORIDE (PVCO) JOINTS

Spigot Compressed into Bell

CORNELL 2016 TERZAGHI LECTURE

ASCE

G1

SEL

COLUMN 151

COLUMN 1

- Testing of PVCO, Bionax-SR scheduled for June 2017
- Future testing of CIPP planned



Flexibly Staffing



| Utility Locating | Trench Layout | Excavating |
|--------------------------|------------------------|---------------|
| Pipeline Installation | Backfilling | Compacting |
| Pressure Testing | Flushing | Chlorinating |
| Renewing Services | Installing Hydrants | Appurtenances |
| Traffic Control | Moving Plates | Sweeping |





Alternative Renewal - CIPP







- 2.4 miles of renewal: four pilot locations, Richmond, San Pablo, Walnut Creek, and Lafayette
- Preliminary findings
 - ☐ Reduction in truck trips in/out of neighborhood
 - Reduction in final paving materials
 - ☐ Reduction in customer impacts
- Final recommendations in FY18

CIPP Maintenance Training





- Training by Sanexen
- 2 days of video
- Tapping practice
- Repairing a leak
- Leak detection

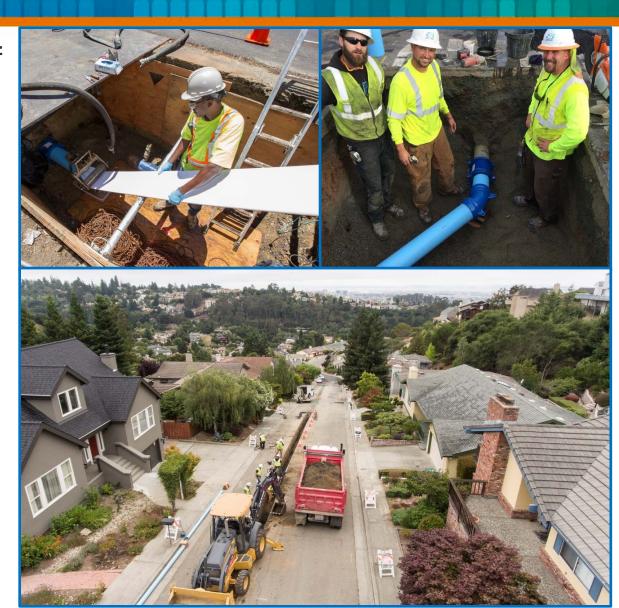




Pipeline Rebuild - Next Steps



- Replacement goal of 15 miles FY17-FY20
- Piloting innovative methods
- Evaluating production and cost metrics
- Defining best practices to improve efficiencies
- Making long-term recommendations by FY20



Residential Backflow Devices

Planning Committee May 9, 2017

Overview



- · Title 17 Requirements
- Backflow Program Summary
- Cross Connection
- Proposed Revisions to Section 26 and Schedule C

Title 17 Requirements



 The California State Board's Division of Drinking Water (DDW) regulations requires every water purveyor to provide protection of the public water system through a backflow prevention program.

Types of Backflow Devices



- Reduced Pressure (RP)
- Double Check Valves (DC)
- · Air Gap (AG)



Residential Backflow Prevention



1994 Residential Backflow Prevention Program

 Requires customers with residential wells install, inspect, and maintain backflow devices to prevent cross connections between the well and the District's potable water supply

1996 Board Resolution

- Applies to residential backflow devices
- Determined to be the most effective and efficient means for ensuring compliance with the requirements Title 17
- District responsible for installation, inspection and maintenance

District Maintained Residential Backflow Devices



· 4,171 Total Number of Devices

- 337 Above Ground
- 3,834 Below Ground







District Backflow Program



Comprehensive Programs That Includes:

- Large Tap Authorizations
- Change of Responsible Party
- Residential Backflow
- District Testing
- Commercial Backflow
- Hydrant Meter
- Fire Service Flushing and Activation
- Recycled Water Cross Connection Testing and Inspection

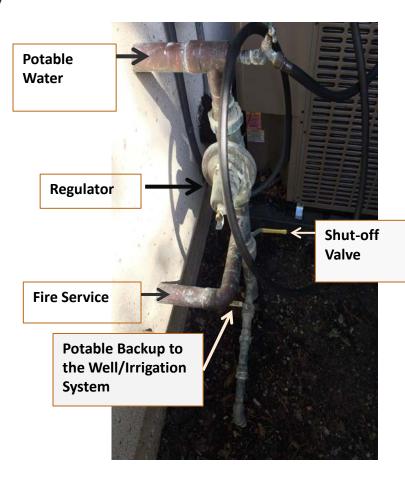
Alamo Cross Connection Incident



- February 26, 2017 Water Quality Complaint
- Residential Well Cross Connection
- Installed 7 backflow devices







County Residential Well Records



- · Records from Alameda and Contra Costa County
- Over 20,000 well records not previously identified
- Include electronic files and handwritten ledgers
- Duplicates and inconsistency with District data

| 1 | Record ID | APN | Site Location | m/Elemen | Program/Element | Permit Number | Entered Date | 100 |
|----|-----------|--------------------------|--|----------|------------------------|---------------|--------------|-----|
| 2 | WF0006037 | | 103 WHISPERING TREES LN, DANVILLE | 4372 | IRRIGATION / AG WELL C | 06M 1205 | 4/25/2006 | |
| 3 | WP0008662 | | 2301 RANGE RD, PITTSBURG | 4372 | IRRIGATION / AG WELL C | (07D 0213 | 10/3/2007 | |
| 4 | WP0009549 | 011 270 006 | BYRON HWY BRENTWOOD | 4372 | IRRIGATION / AG WELL C | (08D 0113 | 4/1/2008 | |
| 5 | WP0009350 | 011 270 006 | BYRON HWY BRENTWOOD | 4372 | BRIGATION / AG WELL C | COSD 0114 | 4/1/2008 | |
| 6 | WP0009647 | 011 270 006 | BYRON HWY BRENTWOOD | 4372 | IRRIGATION / AG WELL C | 1080 0119 | 4/4/2008 | |
| 7 | WF0011320 | 034 241 010 | 70 W BOLTON ROAD, OAKLEY | 4372 | SRRSGATSON / AG WELL O | 82 0095 | 7/21/2008 | |
| 8 | WP0011526 | 197 020 023 | 1061 VIA DEL GATO, ALAMO | 4372 | IRRIGATION / AG WELL O | CD98 0017 | 8/8/2008 | |
| 9 | WP0011573 | 011 270 006 | BYRON HWY S OF BALFOUR RD BRENTWOOD | 4372 | IRRIGATION / AG WELL O | (08D 0163 | 8/19/2008 | |
| 10 | WF0011777 | 188 312 010 | 2430 LUNADA UN, ALAMO | 4372 | IRRIGATION / AG WELL O | C08D 0178 | 9/23/2008 | |
| 11 | WP0011860 | 193 710 045 | 175 CHANTICLEER LIN, ALAMO | 4372 | IRRIGATION / AG WELL O | 108D 0187 | 10/7/2008 | |
| 12 | WP0012442 | | 607 LOGAN LANE, DAWILLE | 4372 | IRRIGATION / AG WELL C | (09D 0105 | 2/11/2009 | |
| 13 | WP0012971 | 193 710 044 | 194 CHANTICLEER LN, ALAMO | 4372 | IRRIGATION / AG WELL O | (09D 0158 | 7/6/2009 | |
| 14 | WP0014222 | 002 210 025 OLD APN: 015 | BYRON HWY BYRON NEAR 10067 TRACT WATERSHED | 4372 | IRRIGATION / AG WELL C | (100 021 | 6/15/2010 | |
| 15 | WP0015363 | 193 190 028 | 200 SUMMIT RANCH RD, ALAMO | 4372 | IRRIGATION / AG WELL O | 11d 005 | 2/7/2011 | |
| 16 | WP0015379 | 097 550 028 | 2000 PORT CHICAGO HWY, PITTSBURG | 4372 | IRRIGATION / AG WELL O | (11D 006 | 2/16/2011 | |
| 17 | WP0016761 | 011 180 049 | 26325 MARSH CREEK RD, BRENTWOOD | 4372 | IRRIGATION / AG WELL O | (12D 009 | 3/20/2012 | |
| 18 | WP0017301 | 111 240 014 | 1950 PARKSIDE DR CONCORD | 4372 | INNIGATION / AG WELL C | X 12D 034 | 8/21/2012 | |
| 19 | WP0017345 | 205 030 016 | 8200 COLLER CANYON RD, LIVERMORE | 4372 | BRIGATION / AG WELL C | 120 036 | 8/31/2012 | |
| 20 | WP0017459 | 367 220 019 | 5343 STONEHURST DR MARTINEZ | 4372 | BRRIGATION / AG WELL C | (120 043 | 10/8/2012 | |
| 21 | WP0017973 | 113 132 011 | HUMPHREY DR, CONCORD | 4372 | IRRIGATION / AG WELL O | (13D 005 | 2/27/2013 | |
| 22 | WP0018009 | 238 080 036 | 788 GLENSIDE DR, LAFAYETTE | 4372 | IRRIGATION / AG WELL O | (130 008 | 3/13/2013 | |
| | F H Shee | 4 93 | | | 1 | | | |

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| el 59-61 Betchesper, W. N. | Fot 3, W28.59 Laurense Rd . | Tamaias | | 12 | 4 | - | _ | _ | × | | | D |
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| 4 5156 D. DILLER | 1912 LESLIE LANE | P.H. | | - × | + | -1 | - | - | X | _ | | П |
| 5 5 190 X. Kamp | Dlackhawk Pd. | Danvill | | -1- | + | -11 | - | X | - | - | | 13 |
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| 8 5-16-6 Grelson B. L. | 1549 also Ct. | ~ | | P | 1 | -1 | - | K | - | -1 | - | 13 |
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| 6-9-61 No Ferry SAND HUL | GATENAY RO | 8.5 | CANADA | 2 | | 1/3 | 7 | 1 | + | -11- | - | -8 |
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Proposed Revisions to Section 26 and Schedule C



- Conforming vs non-conforming single family customers
 - Conforming customers
 - District responsible for installation, inspection, and maintenance of DC device
 - Non-conforming customers
 - Require RP devices which are outside the meter box on the customers property
 - · Customer responsible for installation, inspection and maintenance of RP device

Cost



· Parts & Labor

- Double Check Device \$1,200

-Reduced Pressure \$2,100

Annual Testing \$60,000

Next Steps



· FY17

- Modify Section 26 and Schedule C for nonconforming single family residential customers
- · FY17/18
 - Review
 - · County well data
 - · Customer water quality complaint data
 - Request counties inform the District when new wells or well destructions are requested
 - Develop short- and long-term plans

Resource Recovery Program Update

Planning Committee May 9, 2017

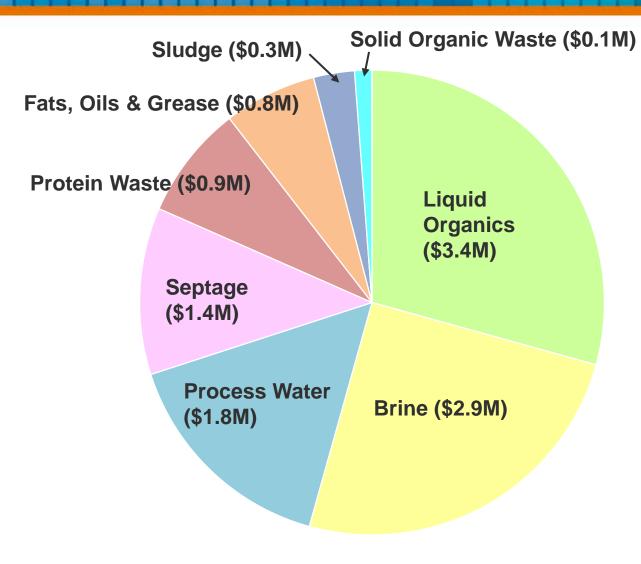
Agenda



- · Resource Recovery (R2) Program Status
- Growth Opportunities
 - Liquid Waste
 - Sludge
 - Food Waste
- Next Steps

R2 Program Status





- Over 100 trucks/day
- \$11.6 M tip fee revenue in FY16
 - \$4.8M high strength
 - 6.8M low strength
- Increasing competition

Growth Opportunities Liquid Waste - Organics



- Liquid organic waste continues to be very desirable
 - Easy to process
 - High energy value
- Staff is pursuing contracts to secure high volumes

Growth Opportunities Liquid Waste - Brine



- Staff has identified brine wastes as a significant potential growth area
 - Increasing pressure to remove salt from Central Valley
 - Limited options for salt disposal
- Proposing to revise rates for brine
- Expect 30% increase in deliveries from K2 Pure Solutions



Growth Opportunities Sludge



- · City of Palo Alto plans to retire its sludge incinerators in 2019
- Sludge processing at the District's MWWTP may be (at least) an interim solution
 - 3 trucks/day on average
- Expect RFP for sludge processing later this year





Growth Opportunities Food Waste - Background



 Financial analysis presented at November 2016 workshop showed that offsite pre-processing most economically feasible

| Description | Alt. 1 Large at EBMUD (200 tpd) | Alt. 2 Medium at EBMUD (60 tpd) | Alt. 3 Medium at WM (60 tpd) |
|--------------------------------------|--|--|---------------------------------------|
| Total Capital Costs | -\$60.0M | -\$20.0M | -\$1.5M to -\$4.0M |
| PV of Total Gross Revenue (20 years) | \$83.4M | \$22.4M | \$11.0M |
| PV of Total O&M Costs (20 years) | -\$64.0M | -\$24.3M | -\$11.7 M |
| 20-year NPV | -\$40.6M | -\$21.9M | -\$2.2M to -\$4.7M |

- Consistent with predominant model at other WWTPs
- Note that onsite pre-processing was a requirement for accepting City of Oakland organics
 - WM not interested in delivering preprocessed material

Growth Opportunities Food Waste - Capital Investments

- Large scale food waste project capital included three components:
 - Pre-processing
 - Expansion of Dewatering Capacity
 - Expansion of Biogas Utilization
- Current approach
 - \$1.3 million to maintain reliability at existing receiving station
 - \$10M contingency can be used for dewatering or biogas projects if/when they're supported

Growth Opportunities Food Waste - RecycleSmart



- Collaboration with Central Contra Costa Solid Waste Authority (RecycleSmart) continues to be a good model
 - Over last two years,
 deliveries have increased
 from 8 to 15 tons/day
 - Exploring opportunities to increase quantities



Growth Opportunities Food Waste - Recology/SF





- Recology has resumed deliveries of "urban organics" extracted from San Francisco garbage
- Plan to collect data on quantity and quality over next year through Pilot
- If successful, District may install polishing equipment at MWWTP under CalRecycle grant

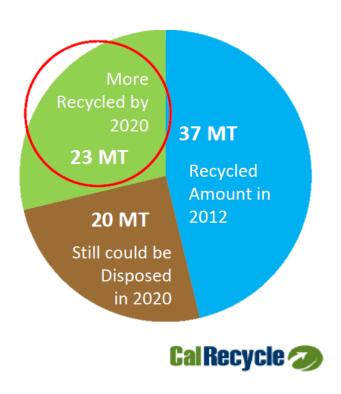
Growth Opportunities Food Waste - Future Opportunities

- · Staff continues to explore partnerships with other jurisdictions and haulers
 - City of Berkeley
 - Sustainable Organic Solutions of Sunnyvale
 - Republic Services
 - Project Developers

Growth Opportunities Food Waste - State Drivers



- State agencies are ramping up rulemaking efforts under SB 1383
 - 50% diversion of organics by 2020
 - 75% diversion by 2025
 - · 6 million tons/year of food waste
- AB 1826 implementation also underway for commercial organics source separation



Growth Opportunities Food Waste - State Drivers (cont.) Figure 1. The state of th

- SB 1383 implementation has the potential to incentivize District food waste project in multiple ways:
 - Significant new/expanded processing capacity required (30-100 facilities)
 - Upward pressure on tip fees
 - Focus on reducing contamination
 - Market development
 - · Organic products e.g., digestate
 - Biogas incentives
 - Possible grant funding

Next Steps

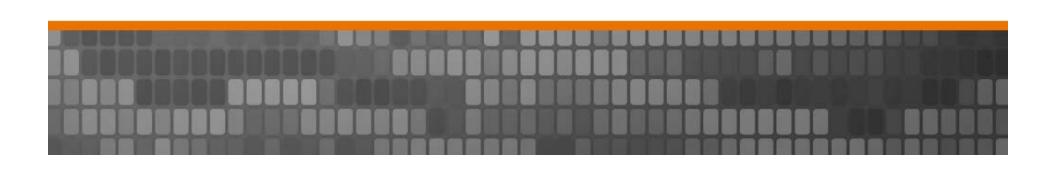


- Secure contracts with key liquid organics customers for Board consideration
- Implement strategies to secure new customers, including brine waste and sludge
- Continue to explore food waste partnerships
- Engage with decision-makers on organics diversion policy development



Customer Assistance Programs Update

Planning Committee May 9, 2017



Background

Committee Presentations -

December 2016 & February 2017

- CAP Overview
- District Overdue Process
- Response to SWPAUW Demands
- Low Income Outreach/Education Efforts
- Research and Training

Low Income Assistance Strategy

Additional funding opportunities

Assess Charges Increase CAP awareness



Payment Plans/ Extensions

Outreach and Partnerships

Targeted **Education**

CAP Outreach Touch Points



Start Service

Bill Messages

Phone/Field Contact

Delinquent Notices

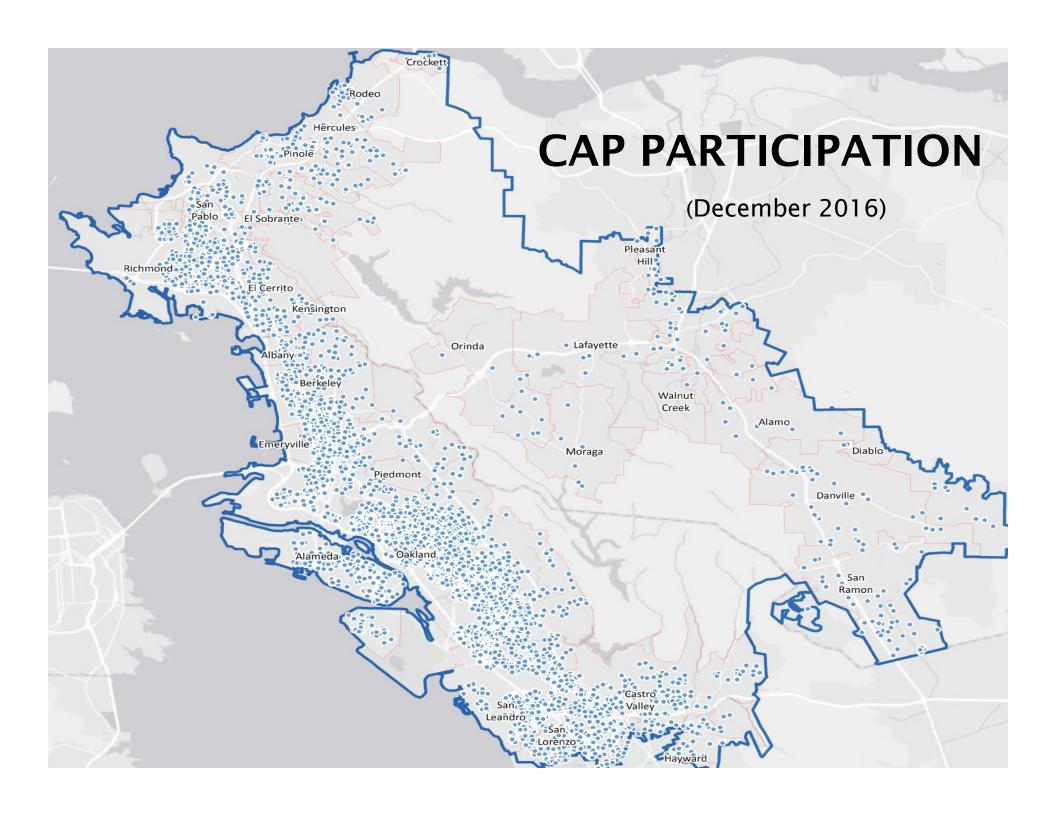
Pipeline Newsletter

Website

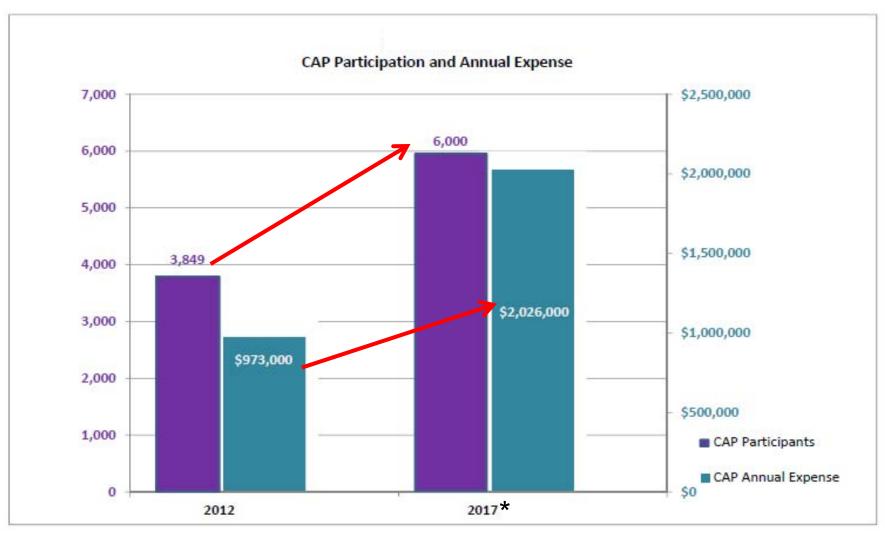
Social Media

Social Service Agencies

Bus Shelters - new



CAP Growth (last 5 years)



* as of April 30, 2017

Partnerships - Oakland Housing Assistance Center

Trouble paying your water bill?

EBMUD can help.

Trouble paying your washand bill?

EBMUD can help.

Trouble paying your work bill?

EBMUD can help.







US Census Household Income < \$35,000 (2015)

| Number of Households Income (2015) | Less than \$35,000 | % of Households Less than \$35,000 |
|---|---------------------------|---------------------------------------|
| Oakland | 54,815 | 35% |
| Richmond | 11,867 | 32% |
| Pinole/Crockett/Rodeo/ Hercules | 3,653 | 19% |
| Berkeley/Emeryville/ El Cerrito/Albany/ Kensington/El Sobrante/San Leandro/San Lorenzo/Hayward | 20,890 | 27% |
| Piedmont/Alamo/Diablo/ Alameda/Danville/Lafayette/Pleasant Hill/Moraga/Castro Valley Walnut Creek/Orinda | 19,941 | 16% |
| Total in Service Area | 111,166 | 26.90% |

Annual Revenue Loss (no turnoffs) Household Income < \$35,000

| Percentage of Nonpaying Low-Income Households | No. of Households | Billing Period Revenue Decrease (\$) | Annual Revenue Decrease (\$) |
|--|----------------------|---|---------------------------------|
| 7.7% current participation* | 6,000 | \$748,680 | \$4,492,080 |
| 10% of households | 7,700 | \$960,806 | \$5,764,836 |
| 20% of households | 15,400 | \$1,921,612 | \$11,529,672 |
| 30% of households | 23,100 | \$2,882,418 | \$17,294,508 |
| 40% of households | 30,800 | \$3,843,224 | \$23,059,344 |
| 50% of households | 38,500 | \$4,804,030 | \$28,824,180 |
| 75% of households | 57,750 | \$7,206,045 | \$43,236,270 |
| 100% of households | 77,000 | \$9,608,060 | \$57,648,360 |

^{*}current CAP participation level

Water Theft Penalty Ordinance

- Adopted by the Board April 28, 2015
- · Penalty for illegal use of water
- Majority of theft: illegal service restoration
- · 382 occurrences
- · 41% reduction of broken locks and subsequent field work

WARNING! DO NOT RESTORE YOUR WATER SERVICE!

WATER THEFT IS A CRIME and under EBMUD's Water Theft Ordinance #365-15, you could be subject to financial penalties!

DO NOT open, or tamper with any residential water meter that has been turned off,

DO NOT have any unauthorized connections to EBMUD's water system.

DO NOT attempt to take water lilegally from a public fire hydrant.

ALL of these actions constitute water theft, and could subject you to criminal and/or financial penalties.

EBMUD's WATER THEFT ORDINANCE can be found in its entirety on EBMUD's website at www.ebmud.com/water-theft

Under the Water Theft Ordinance, the following penalties apply:

\$1,000

First Violation

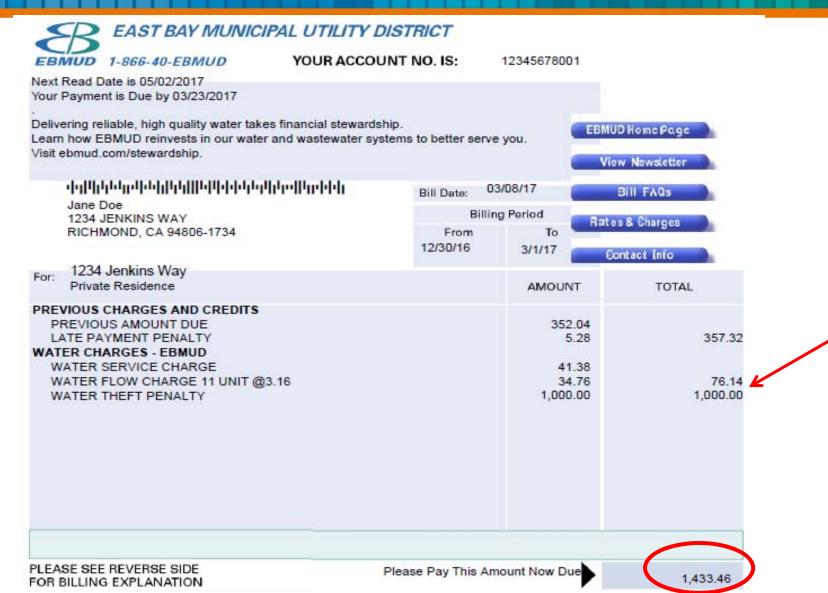
\$2,000

Second Violation within 12 months of the prior Violation date

\$3,000

Each additional violation within 12 months of the prior violation date

Sample Bill with Water Theft Penalty



Water Theft Penalty Ordinance Options

- Reduce water theft penalty charges
- Narrow the scope to hydrant theft
- Eliminate Ordinance
- No change

ORDINANCE NO. 365-15

WATER THEFT PENALTY ORDINANCE

Introduced by Director Coleman

; Seconded by Director Patterson

WHEREAS, California Penal Code section 498 prohibits the theft of utility services, including

WHEREAS, California Penal Code section 624 prohibits every person from willfully damaging, tampering with, or digging up water pipes or waterworks; and

WHEREAS, California Penal Code section 625 prohibits every person who, with intent to defraud or injure, opens or causes to be opened, or draws water from any disconnected utility connection after having been notified that the same has been closed or shut for specific cause, by

WHEREAS, any person who violates Penal Code sections 498, 624, or 625 is guilty of a

WHEREAS, California Civil Code section 1882 et seq. authorizes the East Bay Municipal Utility District (the "District") to bring a civil action for damages against any person who commits, authorizes, solicits, aids, abets, or attempts any of the following acts:

- Diverts, or causes to be diverted, utility services by any means whatsoever.
- Makes, or causes to be made, any connection or reconnection with property owned or used by the utility to provide utility service without the authorization or consent of the
- Prevents any utility meter, or other device used in determining the charge for utility services, from accurately performing its measuring function by tampering or by any other
 - Tampers with any property owned or used by the utility to provide utility services.
- Uses or receives the direct benefit of all, or a portion, of the utility service with knowledge of, or reason to believe that, the diversion, tampering, or unauthorized connection existed at the time of the use, or that the use or receipt, was without the authorization or consent

WHEREAS, pursuant to California Civil Code section 1882 et seq., the District may bring a civil

WHEREAS, the District's "Regulations Governing Water Service to Customers of the East Bay Municipal Utility District" (the "Regulations"), including Sections 7, 15, 19, and 23, establish

Deposit Considerations



Deposit deferral

 Apply deposit if susceptible to t/off



REGULATIONS GOVERNING WATER SERVICE TO CUSTOMER

PAGE NUMBER

EFFECTIVE 07/01/15

SECTION 9

GUARANTEE DEPOSITS

Customers are required to pay bills promptly for water service charges and applicable sewer service charges included as part of the District's bill in accordance with Section 13 of these Regulations, and to maintain a payment history satisfactory to the District.

Customers shall be required to pay a guarantee deposit if:

- 1. They fail to maintain a satisfactory payment history, or
- 2. They fail to meet minimum requirements of prospective payment responsibility as determined by the District.

The following provisions shall also apply if a guarantee deposit is required:

- Full payment of any due bills, in addition to the deposit, may be required before granting, continuing or reestablishing service;
- The deposit shall be in an amount approximately two times the estimated monthly or bimonthly billings, but in no case shall be less than \$50.00;
- 3. No interest will be paid on deposits; and
- 4. The guarantee deposit will be credited to the customer's account after he or she has established and maintained a satisfactory payment history for a one-year period. If service is discontinued during this period, the deposit, less the final bill, will be refunded. Any overdue bill may be deducted from the guarantee deposit, and service may be discontinued until the deposit is restored to the original amount.

Donation Funding

Volunteer Donation Program:

- Customers
- Employee Giving Campaign



14% of water utilities CAP are funded by a volunteer program (EPA Nationwide Survey April 2016)

Review of administration logistics and costs vs. potential donations

Next Steps

- Complete an outreach campaign utilizing bus shelters and billboards in low-income areas – May 2017
- · Guardian notification service June 2017
- Monitor and participate in proposed legislative proposals, including proposals to amend Proposition 218 to allow for a rate revenuefunded assistance program - Ongoing
- Continue working with partnering agencies Ongoing
- Continue to promote and track CAP progress Ongoing