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, July 8, 2025
9:00 a.m.
Boardroom
375 11th Street
Oakland, CA 94607

***** Please see appendix for public participation instructions*****

Committee Members: Directors April Chan {Chair}, Luz Gómez, and Valerie D. Lewis

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. Fiscal Year 2025 Pipeline Rebuild Program Update (Terentieff)
2. Center for Smart Infrastructure Update (Terentieff)
3. Water Forum 2050 Update (Towey)
4. Presentation on Erosion Threat to the Mokelumne Wild and Scenic River after a Wildfire (Towey)

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.

APPENDIX

Planning Committee Meeting

EBMUD Board committee meetings will be conducted in person and via Zoom.
These meetings are recorded and live-streamed.

*Online**
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Providing public comment - *The EBMUD 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.*

- Each speaker is allotted 3 minutes to speak; the Committee Chair has the discretion to amend this time based on the number of speakers
- The Secretary will track time and inform each speaker when the allotted time has concluded
- Comments on **non-agenda items** will be heard at the beginning of the meeting
- Comments on **agenda items** will be heard when the item is up for consideration
- The Secretary will call each speaker in the order received

In person
- Fill out and submit a blue speaker card which is available in the meeting room

Via Zoom
- Use the raise hand feature in Zoom to indicate you wish to make a public comment https://support.zoom.us/hc/en-us/articles/205566129-Raising-your-hand-in-a-webinar
  - If you participate by phone, press *9 to raise your hand
- When prompted by the Secretary, please state your name, affiliation if applicable, and topic

Submitting written comments or materials
- Email written comments or other materials for the Board of Directors to SecOffice@ebmud.com
- Please indicate the meeting date and agenda item number or non-agenda item topic in the subject of the email. Contact information is optional.
- **Please email by 4 p.m. the day prior to the scheduled regular meeting**; written comments and other materials submitted to the Board of Directors will be filed in the record.

To *observe* the Planning Committee Meeting,
please visit: https://www.ebmud.com/about-us/board-directors/board-meetings/

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: July 3, 2025

MEMO TO: Board of Directors

THROUGH: Clifford C. Chan, General Manager CCC

FROM: Serge V. Terentieff, Director of Engineering and Construction SVT

SUBJECT: Fiscal Year 2025 Pipeline Rebuild Program Update

SUMMARY

In Fiscal Year 2025 (FY 2025), the District replaced approximately 25.4 miles of pipeline, exceeding the established goal of 25 miles. This memorandum provides an update on FY 2025 accomplishments, current research and innovation initiatives, and goals and objectives for FY 2026. The Pipeline Rebuild Program annual update will be presented at the July 8, 2025 Planning Committee meeting.

DISCUSSION

The Pipeline Rebuild Program launched in FY 2015, is a collaborative effort across multiple departments to renew the District's water distribution infrastructure. The goal of the program is to establish a sustainable, long-term replacement rate that reduces pipeline failures and water loss. In FY 2025, the program exceeded its replacement target and advanced several key areas of research. These included piloting non-invasive condition assessment technologies, researching artificial intelligence (AI) and machine learning for pipe break risk model applications, improving coordination with cities and counties, supporting the procurement of restrained gasket ductile iron pipe, and continuing the advancement of the Center for Smart Infrastructure (CSI) in partnership with the University of California at Berkeley. Research conducted at CSI, such as pipeline performance testing on full-scale fault-rupture and data-driven analyses to evaluate pipeline likelihood of failure provide valuable insights into infrastructure limitations and potential vulnerabilities. The findings directly support and inform the Pipeline Rebuild Program by improving design strategies and prioritization of replacements.

Highlights and accomplishments in FY 2025 included:

- Replaced approximately 25.4 miles of pipeline, exceeding the FY 2025 goal of 25 miles.
- Completed design work for approximately 25 miles of pipeline, closely coordinating with local jurisdictions to align replacements with paving projects.

- Utilized a Likelihood of Failure (LOF) model incorporating pipe leak data, pipe age, and material type, alongside Consequence of Failure (COF) criteria such as proximity to critical customers, major roadways, and environmental factors, to prioritize projects.
- Issued a Request for Proposal (RFP) for AI and machine learning (ML) platforms to enhance predictive capabilities for pipeline failure and replacement prioritization.
- Expanded the use of high-resolution aerial imagery to efficiently verify surface features, such as manholes, utility boxes, curbs, and valves, which supports an expedited preparation of pipeline design drawings.
- Completed two pilot projects utilizing non-invasive condition assessment technologies on existing pipelines.
- Supported the construction inspection teams in their transition to AutoCAD Civil 3D, a new platform being implemented for preparation of as-built drawings.
- Continued piloting direct hauling of trench soils on four projects in Oakland and Berkeley.
- Advanced the use of ductile iron (DI) pipe as the standard material in distribution pipeline replacement projects and assisted with the procurement of restrained gasket DI pipe and fittings.
- Conducted tension, bending, and bi-axial loading tests at the CSI to research and model the performance of 8-inch diameter earthquake-resistant DI pipe.

In FY 2025, the District invested approximately $100 million in the Pipeline Rebuild Program as summarized in Table 1, which is an increase of approximately $18 million from FY 2024. This total level of investment includes costs associated with other District programs that are directly related to the Pipeline Rebuild Program including Infrastructure Renewals, Pipeline Relocations, Pipeline System Improvements, and the Trench Soils Management Program.

As summarized in Table 1, an average Infrastructure Renewal (IR) unit cost $481 per foot for FY 2017 to FY 2020 ($2.5 million per mile), which was discussed during the July 13, 2021 Planning Committee. This previously reported average IR unit cost of $2.5 million per mile did not include costs associated with other programs such as Pipeline Relocations and System Improvements (SI) done by District forces, relocations and SIs done by contract, and Trench Soils Management – programs that are all directly related to Pipeline Rebuild and contribute to the District's annual mileage replacement goal.

The average IR unit costs over the past five years has increased: $2.5 million per mile in FY 2021, $3.4 million per mile in FY 2024, and $3.7 million per mile in FY 2025. The increase is due to a number of factors including higher material, labor, and equipment rental costs, as well as increasingly stringent permit conditions, changes in pipe materials, and increasingly challenging IR projects. A transfer in appropriations of $16 million was required from the unallocated funds to the Pipeline Rebuild to cover increased costs that were incurred in FY 2025. The District continues to evaluate and refine design and construction practices using performance metrics focused on improving cost-efficiency and productivity, while also minimizing community impacts.

NEXT STEPS

The pipeline replacement target for FY 2026 is 25 miles and will increase to 27.5 miles in FY 2027. To achieve the higher FY 2027 goals, the Pipeline Rebuild Program will focus on higher efficiency work practices for design and construction, integration of condition assessment data into the pipeline replacement selection process, deployment of AI and ML prioritization tools, and refinement of long-term pipe deterioration models to ensure continued replacement of pipelines with the highest priority to meet the District's long-term goal of reducing pipeline failures.

CCC:SVT/CDC:djl

Attachment: Table 1. Fiscal Year (FY) 2021, FY2024, and FY2025 Unit Costs and Expenditures

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ATTACHMENT

Table 1. Fiscal Year (FY) 2021, FY 2024, and FY 2025 Unit Costs and Expenditures

	FY 2021		FY2024		FY2025[1]	
Project Category	**Millions (M) Spent**	**Miles (mi) Installed**	**Millions (M) Spent**	**Miles (mi) Installed**	**Millions (M) Spent**	**Miles (mi) Installed**
Infrastructure Renewals (IR)[2]	$57.2M*	23.20	$80.6M[3]	23.60	$88.6 M[3]	23.35
Relocations	$2.0M	0.63	$5.4M	0.69	$6.5M	1.04
System Improvements	$13.0M	1.60	$3.0M[4]	1.03	$2.4M[4]	1.05
Trench Soils[5]	$4.8M	-	$5.0M	-	$4.3M	-
KPI Mileage Goal	-	20 mi	-	22.5 mi	-	25 mi
Totals	**$77.0M**	**25.40 mi**	**$94.0M**	**25.30 mil**	**$101.8M**	**25.40 mi**
IR Average Cost ($/mi)	*$2.5M /mi*		*$3.4M /mi*		*$3.7M /mi*	
IR Trench Soils ($/mi)	*$0.19M /mi*		*$0.18M /mi*		*$0.16M /mi*	
IR Average Cost w/ Trench Soils ($/mi)	**$2.7M/mi**		**$3.6M/mi**		**$4.0M/mi**	

[1] *FY 2025 Costs as of 6/25/2025, subject to change as FY 2025 is closed out*

[2] *IR total includes miles of pipeline abandonment*

[3] *Includes additional budget of $19.0M required in FY 2024 and $16.0M in FY 2025*

[4] *Includes additional budget of $5.2M required in FY 2024 and $2M in FY 2025*

[5] *Estimated cost based on prorating total costs across projects using approximate trench volume from pipeline length, width, and depth. Total annual cost of Trench Soils Management Program can vary significantly by Fiscal Year, depending on the amount of off haul required, maintenance costs, and other related costs.*

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: July 3, 2025

MEMO TO: Board of Directors

THROUGH: Clifford C. Chan, General Manager CCC

FROM: Serge V. Terentieff, Director of Engineering and Construction SVT

SUBJECT: Center for Smart Infrastructure Update

SUMMARY

The District and University of California at Berkeley (UCB) established the Center for Smart Infrastructure (CSI) in 2021 to collaborate on initiatives to address challenges facing water and wastewater utilities. The Phase 1 Agreement was completed in May 2025 and the District is proposing a second phase of collaboration with UCB that includes 10 new research projects for improving the resilience of the District's water and wastewater systems. This new agreement will build upon previous research initiatives from Phase 1, which includes researching, evaluating, and developing smart infrastructure solutions to address challenge areas of interest in both water and wastewater. The research projects will involve UCB researchers, District staff, other water agencies, and manufacturers. This item will be discussed at the July 8, 2025 Planning Committee meeting.

DISCUSSION

The District and UCB established the CSI in 2021 beginning with several projects as part of the Phase 1 agreement. The Board approved the Phase 1 agreement in November 2021, contributing $1.5 million to start the CSI. The Phase 1 Agreement included the development of the CSI's large-scale pipeline testing facility, and workshops that connected District staff, partnering utilities, and UCB staff. The Phase 1 Agreement also developed a new UCB undergraduate course that provides students with exposure to water and wastewater design, construction, water resources, and operation practices. Work under the Phase 1 Agreement was completed in May 2025. Agencies such as the Los Angeles Department of Water and Power (LADWP), Metropolitan Water District of Southern California, San Francisco Public Utilities Commission (SFPUC), and PG&E, and industry agencies including US Pipe, PPI Pipe, and Kubota participated in the Phase 1 Agreement work.

The Phase 2 Agreement expands the Phase 1 research initiatives to address infrastructure and operational challenges caused by aging systems, natural hazards, and climate change. The research projects will develop solutions and test emerging technologies, such as materials and infrastructure performance, remote sensing and monitoring, and predictive modeling and risk

assessment. These projects will collectively strengthen infrastructure resilience, improve system efficiency, and ensure long-term reliability in response to environmental and operational challenges. The attachment summarizes the scope and justification of each project.

Several agencies and US Pipe are partnering with the District and CSI on the Phase 2 Agreement projects. LADWP is partnering on two projects, providing system data, staff, and funds. US Pipe is partnering on one project, providing materials and funds. Alameda County Water District and SFPUC expressed interest in four projects.

NEXT STEPS

Staff recommends implementing the Phase 2 Agreement with the CSI, by providing support to the new research projects in coordination with UCB staff, and by continuing to engage with other agencies, manufacturers, researchers, and regulators to:

- Expand the pipeline testing capabilities and scope, such as testing cured in-place pipeline (CIPP)-lined asbestos cement pipe, seismic resilience of hydrant laterals, and seismic performance of aged joints, large diameter welded steel joints;
- Further the development of remote sensing and pipeline monitoring technologies;
- Expand the collaboration to other aspects of water and wastewater, such as treatment process and water quality; and
- Expand the collaboration to other emerging issues, such as impacts from wildfire.

CCC:SVT:cdc

Attachment: Phase 2 Agreement Project Summary

Phase 2 Agreement Project Summary

Project Name	Cost	Project Scope	Justification
Cement Mortar Lining (CML) Study	$138,030	Thermal and cyclic testing of CML mix designs using engineered cementitious composite materials and fibers for improved liner performance.	The existing Mokelumne Aqueduct CML along the aboveground sections, which accounts for approximately 10 miles across the Delta, is in poor condition with some exposed steel pipe wall. Improved CML mix design will increase the design life of the lining and reduce maintenance costs.
Monitoring Settlement of the Mokelumne Aqueducts from Space	$300,756	Remote monitoring of Mokelumne Aqueduct settlement.	Failure of temperature anchors are costly to repair. Satellite monitoring could allow for early identification of problem anchors, and replacement of anchors before pipeline failure and unplanned shutdowns.
Distribution System Likelihood of Failure (LOF) and Consequence of Failure (COF) Model[1,2]	$161,246	Develop an LOF model that can forecast pipeline degradation and COF model to predict risk and impact.	Current risk models to calculate LOF exist but do not forecast pipeline degradation rates. More information is needed to inform future pipeline replacement rates for the District's capital program. The study will also assist with future pipeline replacement selections.
Unlined Spillway Channel Performance and Upgrades	$832,240	Develop predictive models for erosion potential of unlined spillways and develop effective approaches to mitigate erosion scour.	Camanche and Pardee Reservoirs have unlined spillways that have potential to experience significant erosion during large flood events. The flows that drive erosion are predicted to worsen over time due to climate change and previous flows have already resulted in significant erosion of these spillway channels. The District needs to quantify the erosion potential and impacts to spillway operational safety.
Embankment Dam Fragility Curves and Post-Earthquake Response	$619,751	Develop a process for constructing site-specific embankment dam fragility curves, develop new post-earthquake inspection criterion based on more appropriate Intensity Measurements and site-specific fragility models, and develop a program to deploy real-time earthquake performance monitoring.	The District maintains 22 earthen dams located in the highly seismically active East Bay. This study will develop a post-earthquake inspection criterion and monitoring program. This study will provide an enhanced estimate of seismic performance to support rapid risk assessments following an earthquake.
Updating Empirical Pipeline Fragility Curves for Seismic Resilience Improvement of Water Systems[1,2]	$133,140	Update empirical seismic fragility curve for seismic resilience evaluation, resulting in a GIS-based tool that will assign risk of failure against ground movements for the District's pipelines.	Existing fragility curves used by water utilities to estimate pipeline seismic performance are based on limited data. This study will incorporate new data and improve the District's understanding of pipeline seismic performance, so that future pipelines be designed to increase likelihood of remain in service during and after such events.
Untethered Video Inspection of Sanitary Sewer Systems	$137,980	Develop a prototype Roly Poly Balls (RPB) capable of identifying its location within a sewer main, measuring localized flow velocity, and determining the corresponding water depth during an investigation.	The District is currently operating under the requirements of the Wet Weather Consent Decree, which requires the District to perform inspections of the regional wastewater collection system to find sources of inflow and infiltration. The deployment of RPB's will address this requirement for regulatory compliance.
Distribution	$402,347	Integrate geospatial data and water	Some of the District's water distribution system is

Pipeline Performance in Landslide Zones		distribution system failure data to create a predictive regional landslide model that can be used to prioritize pipeline replacement activities and inform hazard resilience level.	located within active slow-moving landslide hazard areas that are also susceptible to earthquake-induced landslides. In addition, the impacts of landslides on performance of underground infrastructure and observed damage are not well understood. Research is needed to monitor, evaluate, and model slow-moving landslides and the impact to pipeline performance.
US Pipe Field Lok Gasket Testing[2,3]	$42,365	Test performance of Field Lok gasket to assess its use in higher geohazard areas.	The District recently adopted the use Field Lok restrained gaskets with ductile iron pipe and fittings in areas with low to moderate geohazards to improve installation efficiency and reduce cost. Performance testing is needed to potentially expand its use to higher geohazard areas.
Cured-in-place Pipe (CIPP) State of Science Review[2]	$37,359	Compile an analysis of CIPP's performance post installation and identify areas that need additional research/testing and improvement in CIPP lining technology, especially relating to the long-term performance of CIPP liners.	Recent evaluation of the District's CIPP pilot projects identified several areas of concern that need additional research. An updated review of the current state of science and utility experience is needed to inform the District's future use of CIPP liners, which is a pipe renewal strategy that produces less trench soil.

[1] Los Angeles Department of Water and Power partnership
[2] Alameda County Water District and San Francisco Public Utilities Commission expressed interest
[3] US Pipe partnership

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: July 3, 2025

MEMO TO: Board of Directors

THROUGH: Clifford C. Chan, General Manager CCC

FROM: Alice E. Towey, Director of Water and Natural Resources AET

SUBJECT: Water Forum 2050 Update

SUMMARY

The negotiations among the prospective signatory agencies to the Sacramento River Water Forum 2050 Agreement are concluding, and staff from the prospective agencies are seeking comments and feedback on key terms from the respective agencies' boards and councils. This memorandum describes the terms that are relevant to the District. An update will be presented at the July 8, 2025 Planning Committee to receive feedback and input from the Committee.

DISCUSSION

The Water Forum is a diverse group of business and agricultural leaders, citizen groups, environmentalists, water managers, and local governments in the Sacramento region. In 2000, forty different agencies, organizations, citizen groups, and businesses came together to sign the landmark Water Forum Agreement (Agreement), a 25-year plan created to balance two co-equal objectives:

- Provide a reliable and safe water supply for the Sacramento region's economic health and planned development; and
- Preserve the Lower American River's[1] fishery, wildlife, recreational, and aesthetic values.

One of the key elements of the Agreement is the commitment from Placer County Water Agency (PCWA) to release up to 47,000 acre-feet in dry years to the Lower American River for environmental benefits. The District has partnered with PCWA since 2013 to purchase the Water Forum environmental releases to meet the District's need for water in dry years. The District and PCWA are formalizing a long-term partnership and working with PCWA on a Draft Environmental Impact Report that PCWA anticipates releasing later this year and a water rights petition that PCWA will submit to the State Water Resources Control Board to add the District's service area to the place of use of PCWA's environmental releases for the next 25 years.

[1] The Lower American River is defined as the stretch of American River from Folsom Dam, through the city of Sacramento and its suburbs, to the confluence with the Sacramento River.

In 2020, Water Forum members recognized the original Agreement needed to be updated to address new challenges such as climate change. Since the Agreement was set to expire in 2025, negotiations began in 2020 to update the Agreement. Water Forum 2050 is a commitment to working together to strengthen and modernize the program areas and elements to achieve the co-equal objectives and to address new challenges, such as the impacts of climate change, increasingly challenging environmental conditions, changing regulations, and economic pressures. The District was invited to the Water Forum 2050 negotiations in recognition of the District's long-term dry year water purchase partnership with PCWA and the partnership on the Freeport Project with Sacramento County Water Agency.

Water Forum 2050 is a proposed 25-year non-binding agreement structured into five program areas: (1) American River Flows and Operations, (2) American River Corridor Health, (3) Regional Water Supply Sustainability, (4) Science, Monitoring, and Decision Making, and (5) Governance, Funding, and Administration. Each program area is designed to support the co-equal objectives by outlining specific programs, actions, and activities directed to the relevant area of focus. Recognizing that climate change presents the most significant threat to achieving the coequal objectives, the five program areas are tied together via the American River Climate Adaptation Program (ARCAP), a cross-cutting program designed to accelerate progress in all five program areas by contributing tangible volumes of water toward the coequal objectives. The 41 negotiating parties for Water Forum 2050 include seven organizations representing the building trades and general commerce, eight environmental and political non-governmental organizations, eight municipal governments, and 18 water purveyors/water districts (listed in Attachment A).

The Regional Water Supply Sustainability program area commits water agencies to prioritize alternative supplies to surface water diversions from the American River in dry years to support environmental needs of the Lower American River. Since the District diverts water from the Sacramento River downstream of the Lower American River using the Freeport Project, the District is not obligated under Water Forum 2050 to reduce diversions in dry years. Moreover, the District's long-term water transfer partnership with PCWA to purchase up to 47,000 acre-feet in a dry year is a key element of Water Forum 2050's effort to provide additional American River flows in dry years for environmental benefit to the Lower American River.

One benefit of joining the Water Forum is to reinforce the District's regional presence in American River water supply planning. The District's American River Central Valley Project contract from the Bureau of Reclamation and the long-term partnership with PCWA are essential to meeting the District's need for water in dry years. Participation in the Water Forum will allow the District to ensure its interests are represented in regional water supply planning. Another benefit of joining the Water Forum is to build the District's partnerships with Sacramento region water agencies that are developing drought water supply projects, such as ARCAP and the Sacramento Regional Groundwater Bank. ARCAP or the Sacramento Regional Groundwater Bank may yield new water supplies that provide environmental benefits to the Lower American River and are available to transfer to downstream diverters like the District.

The estimated annual contribution from the District to support the Water Forum 2050 is based on a negotiated formula. This cost formula will be adjusted every five years based on changing demographics and water usage. For the next five years, District staff has negotiated a two percent District contribution to the Water Forum's $1.9 million annual budget, which is approximately $29,602 in Fiscal Year 2026. A full list of the prospective funders is included in Attachment B.

NEXT STEPS

Staff recommends that the District participate in the Water Forum 2050 with a $29,602 contribution in Fiscal Year 2026. This is the expected annual District contribution for the next five years with inflation adjustments each year and a renegotiation of the cost share principles every five years. Staff will continue to participate in negotiations for the Water Forum 2050 Agreement. Any input from the Planning Committee will be shared with Water Forum staff for consideration. A final version of the Water Forum 2050 Agreement is anticipated later this year for approval by participating agencies' boards and councils.

Attachments: A – Water Forum 2050 Prospective Signatories
B – Water Forum 2050 Prospective Funders

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Attachment A – Water Forum 2050 Prospective Signatories

Business Caucus
AKT Development*
Associated General Contractors
North State Building Industry Association*
Sacramento Association of Realtors*
Sacramento Metropolitan Chamber of Commerce*
Sacramento Regional Builders Exchange
Green Acres Nursery & Supply

Environmental Caucus
Environmental Council of Sacramento*
Friends of the River*
Save the American River Association*
Sierra Club Mother Lode Chapter*

Public Caucus
American River Flood Control District
American River Parkway Foundation
City of Rancho Cordova
City of Sacramento Planning Department*
League of Women Voters, Sacramento County *
Placer County
Sacramento Area Council of Governments
Sacramento Area Flood Control Agency
Sacramento County*
Sacramento Regional Parks
Sacramento Valley Conservancy
Sacramento Municipal Utility District

Water Caucus
California American Water*
Carmichael Water District*
Citrus Heights Water District*
City of Folsom*
City of Roseville*
City of Sacramento*
Del Paso Manor Water District*
East Bay Municipal Utility District
El Dorado Irrigation District*
El Dorado Water Agency*
Fair Oaks Water District*
Golden State Water Company/Arden-Cordova Water District*
Orange Vale Water Company*
Placer County Water Agency*
Regional Water Authority*
Sacramento Suburban Water District*
Sacramento County Water Agency*
San Juan Water District*

* Denotes an organization that was a signatory to the original Water Forum Agreement (2000)

Attachment B – Water Forum 2050 Prospective Funders

Agency	Base %			Weighted %	FY 26 Contribution Based on 5-Year Avg 2019-2023
	Connections	*American River Diversions*	*Groundwater Production*		
El Dorado Irrigation District	*0.07*	*0.09*	*0.00*	**0.07**	**$128,452**
Placer County Water Agency	*0.07*	*0.07*	*0.00*	**0.06**	**$109,635**
City of Folsom (minus Ashland)	*0.04*	*0.12*	*0.00*	**0.06**	**$119,623**
City of Roseville	*0.09*	*0.19*	*0.00*	**0.11**	**$212,506**
San Juan Water District - Wholesale	*0.09*	*0.21*	*0.05*	**0.13**	**$106,938**
Citrus Heights Water District	*0.04*	*0.06*	*0.02*	**0.04**	***$81,691***
Fair Oaks Water District	*0.02*	*0.04*	*0.03*	**0.03**	***$63,181***
Carmichael Water District	*0.02*	*0.03*	*0.03*	**0.03**	**$53,445**
City of Sacramento	*0.25*	*0.19*	*0.21*	**0.22**	**$422,537**
Sacramento Suburban Water District	*0.08*	*0.06*	*0.21*	**0.10**	**$187,724**
Golden State Water Company	*0.03*	*0.03*	*0.05*	**0.03**	**$61,706**
California American Water	*0.11*	*0.00*	*0.24*	**0.09**	**$179,501**
Sacramento County Water Agency	*0.11*	*0.00*	*0.21*	**0.08**	**$160,600**
East Bay MUD	*0.04*	*0.00*	*0.00*	**0.02**	**$29,602**
Total[1]	*1.00*	*1.00*	*1.00*	**1.00**	**$1,917,140**

1. Total funding amount shown excludes contributions of flat fee contributions from SMUD, SAFCA, and EDWA.

Note: The District's connection count was negotiated based on the average annual diversions from the Sacramento River, so it does not reflect the full number of the District's customers.

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: July 3, 2025

MEMO TO: Board of Directors

THROUGH: Clifford C. Chan, General Manager CCC

FROM: Alice E. Towey, Director of Water and Natural Resources AET

SUBJECT: Presentation on Erosion Threat to the Mokelumne Wild and Scenic River after a Wildfire

SUMMARY

EBMUD is a founding member of the Upper Mokelumne River Watershed Authority (UMRWA), a Joint Powers Authority (JPA) formed in 2000. UMRWA's recent focus has been on completing forest restoration and fuel reduction projects to reduce the risk of a catastrophic wildfire in the upper Mokelumne watershed. Rich Farrington, Director, Amador Water Agency (AWA), an UMRWA member agency will provide a presentation at the July 8, 2025 Planning Committee meeting on the erosion threat to the Mokelumne River following a severe wildfire.

DISCUSSION

UMRWA's forest restoration work is proceeding in two phases: Phase 1, which is already underway, covers approximately 26,000 acres of watershed land. Planning and completion of environmental reviews is underway for Phase 2, which would cover 225,000 acres. Staff provided an update on UMRWA's activities at the April 8, 2025 Planning Committee meeting.

On April 22, 2025, the Board approved a pilot agreement with Blue Forest, a nonprofit conservation finance organization, to further support UMRWA's work in the upper watershed. EBMUD committed $50,000 of initial funding to the Mokelumne Forest Resilience Bond to support UMRWA's work, then agreed to provide up to an additional $50,000 to match contributions from any other UMRWA member.

Rich Farrington, delivered a presentation at the January 24, 2025 UMRWA Board meeting on the erosion threat to the Mokelumne River following a severe wildfire in the watershed. At his request, he will provide an update at the July 8, 2025 Planning Committee meeting.

CCC:AET:asu

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