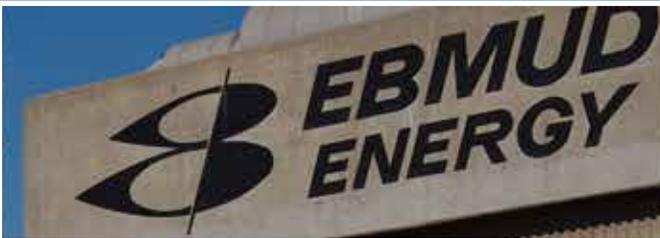




Report and Recommendation of the General Manager

*Revisions to the Water and Wastewater
System Schedule of Rates and Charges,
Capacity Charges, and Other Fees
Not Subject to Proposition 218, and
Regulations for Fiscal Year 2019*



Photos on cover:

Examples of EBMUD's vast operations such as water storage, treatment and distribution, wastewater treatment plant energy, fire suppression programs, and staff that provide service around the clock supporting watershed management, water sampling/testing, pipeline maintenance/repairs, and customer service.

Report and Recommendation of the General Manager

Revisions to the Water and Wastewater System Schedule of Rates and Charges, Capacity Charges, and Other Fees Not Subject to Proposition 218, and Regulations for Fiscal Year 2019

*Submitted to the Board of Directors
by Alexander R. Coate, General Manager
May 8, 2018*

East Bay Municipal Utility District

East Bay Municipal Utility District

TABLE OF CONTENTS

Report and Recommendation of the General Manager Revisions to the Water and Wastewater System Schedule of Rates and Charges, Capacity Charges, and Other Fees Not Subject to Proposition 218, and Regulations for Fiscal Year 2019

Chapter-Page

GENERAL MANAGER'S MEMORANDUM

CHAPTER 1 – WATER SYSTEM RATES, CHARGES AND FEES

Introduction	1-1
Recommended Revisions to Other Water System Charges.....	1-1
Rates Revisions Schedules	1-1
Schedule B – Account Establishment Charge	1-1
Schedule C – Charges for Special Services.....	1-2
Schedule D – Water Service Installation Charges.....	1-4
Schedule E – Private Fire Service Installation Charges.....	1-5
Schedule F – Public Fire Hydrant Installation Charges	1-5
Schedule G – Water Main Extension Charges	1-6
Real Property Use Application Fees	1-6
Water Service Regulations	1-7
Section 1 – Explanation of Terms Used in These Regulations	1-7
Section 2 – Applying for Service	1-7
Section 3 – Standard Service.....	1-8
Section 29 – Water Use Restrictions.....	1-8
Section 31 – Water Efficiency Requirements	1-8

CHAPTER 2 – WATER SYSTEM CAPACITY CHARGES/WATER DEMAND MITIGATION FEES

Introduction	2-1
Recommendations.....	2-1
Discussion.....	2-2
SCC Rate Calculations.....	2-2
SCC Unit Charges.....	2-3
Future Water Supply Component Details.....	2-6
Completed Projects	2-6
Future Projects.....	2-7
Exhibit 1 – Distribution System SCC Regions.....	2-8
Exhibit 2 – FY19 SCC Calculation Tables.....	2-9

CHAPTER 3 – WASTEWATER SYSTEM RATES, CHARGES AND FEES

Recommendation	3-1
Discussion – Resource Recovery Program	3-1

East Bay Municipal Utility District

TABLE OF CONTENTS

CHAPTER 4 – WASTEWATER CAPACITY FEES

Introduction	4-1
Recommendation	4-1
Discussion	4-1
Exhibit 1 – Wastewater Capacity Fee Calculation Tables	4-3

CHAPTER 5 – SCHEDULES OF RATES AND CHARGES, CAPACITY CHARGES, AND OTHER FEES NOT SUBJECT TO PROPOSITION 218, AND REGULATIONS

FY19 Water System

Schedule B – Account Establishment Charge
Schedule C – Charges for Special Services
Schedule D – Water Service Installation Charges
Schedule E – Private Fire Service Installation Charges
Schedule F – Public Fire Hydrant Installation Charges
Schedule G – Water Main Extension Charges
Schedule H – Standard Participation Charge (SPC)
Schedule J – System Capacity Charge (SCC)
Schedule N – Water Demand Mitigation Fees
Real Property Use Application Fees
Regulations Section 1 – Explanation of Terms Used In These Regulations
Regulations Section 2 – Applying for Service
Regulations Section 3 – Standard Service
Regulations Section 29 – Water Use Restrictions
Regulations Section 31 – Water Efficiency Requirements

FY19 Wastewater System

Schedule F – Wastewater Department Rates for Resource Recovery Material Treatment
Schedule G – Wastewater Department Capacity Fees

CHAPTER 6 – APPENDIX A

Schedule D – Water Service Installation Charges with Full FY19 Update
Schedule E – Private Fire Service Installation Charges with Full FY19 Update
Schedule F – Public Fire Hydrant Installation Charges with Full FY19 Update
Schedule G – Water Main Extension Charges with Full FY19 Update

CHAPTER 7 – APPENDIX B

Comparison of 6” Fire Service Installation with Other Agencies
Comparison of 1-1/2” and 4” Service Installation with Other Agencies
Comparison of Fire Hydrant Installation with Other Agencies

EAST BAY MUNICIPAL UTILITY DISTRICT

DATE: May 3, 2018

MEMO TO: Board of Directors

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

SUBJECT: Revisions to the Water and Wastewater System Schedule of Rates and Charges, Capacity Charges, and Other Fees Not Subject to Proposition 218, and Regulations for Fiscal Year (FY) 2019

In 2001, the District began implementation of a two-year budgeting and rate setting process. Every two years as part of this biennial budget process, the Board considers and adopts both the budget, and rates and charges for two consecutive fiscal years. As part of the biennial budget process, the General Manager files a report and recommendation on the proposed rate adjustments and detailed budget documents with the Board in May. Biennial budget workshops are usually held in April, and a public hearing is typically held in June prior to the start of the fiscal year on July 1. For 2017, the public hearing for the FY18 and FY19 rates was held on July 11, 2017. Proposed rate adjustments as part of the biennial budget process are subject to the requirements of Proposition 218; which requires that all customers are sent a notice of the public hearing. On July 11, 2017, the District adopted the FY18-FY19 rates and charges, including the FY19 rate increase of nine percent for the Water System and five percent for the Wastewater System, which will be effective July 1, 2018.

In addition to the rates that are adopted as part of the biennial process, some rates such as capacity fees are updated and approved as part of a mid-cycle update. For FY19, staff is proposing to update the capacity fees and several other fees and charges that are not subject to the requirements of Proposition 218. Only rates and charges for the District's ongoing water and wastewater services are subject to Proposition 218's requirements as property-related services, and no revisions to such Proposition 218 rates and charges are presently being proposed. This report contains the FY19 proposed changes to the rates for the System Capacity Charge (SCC), the Standard Participation Charge (SPC), Water Demand Mitigation Fees, Wastewater Capacity Fees and other fees that were not contained in the biennial rate approval in 2017. The following is a summary of the proposed changes.

Water System

- Increase fees in Schedule B – Account Establishment Charge and Schedule C – Charges for Special Services. The changes increase each charge in these schedules to reflect current costs.

- Implement proposed changes to Water System Schedule D – Water Service Installation Charges, Schedule E – Private Fire Service Installation Charges, Schedule F – Public Fire Hydrant Installation Charges, and Schedule G – Water Main Extension Charges. After a complete review, the charges in these schedules were updated to reflect current costs. Because of large increases in these areas it is recommended that the proposed increases be phased-in over the next three years beginning in FY19.
- Modify Water Service Regulations Sections 1, 2, 3, 29 and 31 to update and clarify District service regulations.
- Increase the Real Property Use Application Fees to reflect current costs.
- For the SCC, SPC, and Water Mitigation Fees, update the water system assets and cost components used in the calculations.

Wastewater System

- Add a category for clean liquid food waste slurry for the Resource Recovery Program to facilitate food waste deliveries.
- For the Wastewater Capacity Fees (WCF), update the wastewater system assets and cost components used in the calculations.

A Board workshop on the changes to the rates and charges and review of the mid-cycle budget will be held on May 22, 2018. A public hearing on the recommendations contained in this report will be scheduled for June 12, 2018 and the Board will consider adoption of the recommendations at the June 12 Board meeting.

The changes to water and wastewater system rates, charges, and fees are recommended to be effective as of July 1, 2018, with the exception of changes to SCC, SPC, Water Mitigation and Wastewater Capacity fees that are proposed to be effective on August 13, 2018, or 60 days following adoption by the Board.

ARC:DSK:RL:rl

**1. Water System Rates,
Charges & Fees**

Chapter 1 – Water System Rates, Charges and Fees

INTRODUCTION

The District periodically reviews the rates and charges in the Schedules of Water System Charges to ensure the fees and charges reflect the District's cost of service. This report recommends revisions to District charges and fees that are in addition to the FY19 changes to Water and Wastewater System rates, fees, and charges previously adopted as part of the FY18-FY19 Biennial Report and Recommendation of the General Manager. These rates are not subject to the requirements of Proposition 218. However, they are subject to Proposition 26 and in full compliance with its requirements. Proposition 26 governs local government rates and charges, and provides that any levy, charge, or exaction of any kind that is imposed by a local government is a "tax" requiring voter approval, unless it fits within its seven stated exceptions. If a rate/charge does not fall within an exception to Proposition 26's tax definition, then it will be deemed a tax that is subject to voter approval.

Copies of the fees and charges recommended for revisions are shown in Chapter 5 of this report.

RECOMMENDED REVISIONS TO OTHER WATER SYSTEM CHARGES

In FY17, the District began a comprehensive update of its water system fees and charges that are not subject to the requirements of Proposition 218. This initial update looked at the Account Establishment Charges, Charges for Special Services and Real Property Use Application Fees. For FY19, a comprehensive update was performed for the Water System Installation Charges, Private Fire Service Installation Charges, Public Fire Hydrant Installation Charges, and the Water Main Extension Charges.

For FY19, the following schedules, fees and regulations are recommended for update:

- Schedule B – Account Establishment Charge
- Schedule C – Charges for Special Services
- Schedule D – Water Service Installation Charges
- Schedule E – Private Fire Service Installation Charges
- Schedule F – Public Fire Hydrant Installation Charges
- Schedule G – Water Main Extension Charges
- Real Property Use Application Fees
- Water Service Regulation Section 1 – Explanation of Terms Used in These Regulations
- Water Service Regulation Section 2 – Applying for Service
- Water Service Regulation Section 3 – Standard Service
- Water Service Regulation Section 29 – Water Use Restrictions
- Water Service Regulation Section 31 – Water Efficiency Requirements

Schedule B – Account Establishment Charge

Based on the analysis of the District's current labor cost to set up a new customer account or to transfer an account for a customer moving from one address to another, the Account

Establishment Charge is proposed to increase from \$54 to \$56 in FY19. Customers who use the EBMUD website and use the online process to set up a new account generate lower labor costs than those who call the District for the same service. Accordingly, the Account Establishment Charge is lower for customers who set up an account online, reflecting the District's labor cost savings. In FY19, the Account Establishment Charge for online customers will increase from \$38 to \$40 to reflect updated labor costs. The Account Establishment Charge for customers who qualify for the Customer Assistance Program (CAP) will be \$28 in FY19, which is consistent with the CAP's 50 percent discount on charges for monthly water service. The CAP is subsidized from property tax revenues received by the District.

Schedule C – Charges for Special Services

Schedule C contains the charges for special customer services such as the meter testing program, backflow prevention program, lien program, public hydrant meters, and service interruptions. After a detailed review of the District's costs to provide each of the services, the following recommended changes are proposed for FY19.

Meter Testing Charges

The District is responsible for the maintenance and replacement of all water meters, and recovers those costs through the monthly Water Service Charge. When the District suspects or determines a water meter is not functioning properly, the District tests and/or replaces the malfunctioning meter. When a meter is tested at the sole request of the customer, the District bills the customer a Meter Testing Charge based on the size of the meter to recover the cost of performing this work. If the meter is found to be over-registering water consumption, the Meter Testing Charge is refunded. For FY19, the Meter Testing Charges are proposed to increase between 4.4 percent and 5.0 percent depending on meter size to reflecting the District's current costs for providing this service.

Service Interruption Charges

When a customer's bills remain unpaid after the District has made extensive efforts to work with the customer to collect the unpaid bills or to establish and maintain payment arrangements, the District discontinues water service to the customer. Initially, water service is shut off at the meter, which triggers a Service Trip Charge which is proposed to increase in FY19 from \$46 to \$48 to reflect District costs. After the customer pays the delinquent charges owed to the District, another Service Trip Charge is assessed to restore the service. If the customer requests service be restored after normal business hours, an after-hours Service Trip Charge is assessed instead of the normal Service Trip Charge. The after-hours Service Trip Charge is proposed to increase from \$63 to \$66 for FY19. If it is determined that the customer tampered with the water meter after the District has shut off water service, an S-Lock will be placed over the meter at an additional charge, and if there has been more than one previous occurrence of water theft, a Water Theft Penalty will be charged in accordance with the District's Water Theft Penalty Ordinance. The S-Lock charge is proposed to increase from \$59 to \$61 for FY19. If the customer is determined to have tampered with the S-Lock, the meter will be plugged at a proposed FY19 Plug Service Interruption Charge of \$414, an increase from the current charge of \$402 to reflect updated labor charges.

Lien Program Fees

The Lien Program Fees have been amended to reflect the District's staff costs and the fees charged to the District by Alameda and Contra Costa Counties to record and remove the liens. In

In addition to updating these costs, the District reassessed its approach for determining the Lien Program Fees which resulted in reductions for various lien-related fees. Accordingly, the lien fees are proposed to be reduced for FY19 by 15% to 34% depending on the specific fee.

Wasteful Use Charge and Flow-Restrictor Installation Charge

If the District suspects that a customer is using water in a wasteful manner, District staff contacts the customer and investigates the customer's water use. If it is determined that the customer is violating the District's Water Service Regulations on water waste (Section 29), a Wasteful Use Charge will be charged to recover the cost of monitoring the customer's ongoing water use. The Wasteful Use Charge for FY19 is proposed to be \$48, an increase from the current charge of \$46 to reflect updated costs. If the customer continues to violate the Water Service Regulations Section 29, a flow restrictor may be installed at the customer's expense. The cost of installing the flow restrictor has been updated for FY19, increasing the Flow-Restrictor Installation Charge from \$115 to \$119 for small meters under 1½ inches and from \$248 to \$256 for 1½ and 2-inch meters.

Backflow Device Annual Certification and Violation Charges

To ensure that the water system is not compromised by contaminants, pollutants or plumbing hazards, the District requires a backflow prevention device on some water service connections. A Backflow Device Annual Certification Charge is assessed to cover the administrative costs related to inspection and verification, and is proposed to be \$56 for FY19, up from the current rate of \$54. In addition, there is a charge for labor to complete any necessary surveys and inspections which is proposed to increase from \$124 to \$128 per hour. The District maintains a list of certified private companies that can perform the required backflow test. For a company to be included on the list of certified backflow testers, the District charges a Certified Tester Listing Charge. The Certified Tester Listing Charge for FY19 is proposed to be \$156, up from the current charge of \$151. If it is determined that a customer has violated the District's backflow prevention requirements, the District charges a Backflow Device Violation Charge, which is proposed to increase from \$479 to \$496 in FY19, to recover the District's costs to shut off the water service and restore the service once the District verifies that the backflow requirements have been met.

Intervening Water Service Agreement Fee

The District has a program that automatically transfers a property's water service account to the landlord when a tenant who is the EBMUD account holder terminates service. This program allows for water service to continue uninterrupted while the property is vacant without the landlord having to open a new account and pay an Account Establishment Charge for that property. There is a one-time processing fee for the Intervening Water Service Agreement, to recover the administrative costs to set up the agreement. For FY19, the Processing Fee for Intervening Water Service Agreement is proposed to increase from \$55 to \$58.

Service Trip Charge

The Service Trip Charge is proposed to increase from \$46 to \$48 in FY19 to reflect the District's updated labor costs. The after-hours Service Trip Charge is proposed to increase from \$63 to \$66 for FY19. Service Trip Charges recoup the cost of sending a Field Services Representative or other District staff to a service for payment collection, payment extension, service interruption and restoration, and other similar account related visits.

Returned Payment Charge

The Returned Payment Charge is proposed to increase from \$25 to \$26 in FY19 to reflect the District's updated labor costs to process returned payments.

Public Hydrant Meter Account Establishment and Site Visit Charges

The hydrant meter program provides customers with a 3-inch hydrant meter that can be hooked up to a public fire hydrant to meter water use when temporary water service has been approved by the District. The Public Hydrant Meter Account Establishment and Renewal Charge to establish and annually renew the hydrant meter account is proposed to increase in FY19 from \$111 to \$115. The hydrant meter program requires customers to enter into an agreement through which customers agree to regularly self-report meter readings and periodically exchange their meters. When a customer does not follow the terms of the agreement, a Public Hydrant Meter Account Site Visit Charge is charged to recover the cost of investigation and site visits by a Field Services Representative or other District staff to recover the meter. For FY19, the Public Hydrant Meter Account Site Visit Charge is proposed to increase to \$230 from the current charge of \$222.

Schedule D – Water Service Installation Charges

Schedule D contains the installation charges for lateral and meter installations for standard services. The current installation charges are based on periodic updates for cost increases to the charges that were established in FY04. The effective increase in the installation charges since FY04 has been approximately three percent per year. As part of our comprehensive review of water fees and charges, the District analyzed the details of the cost analysis for each individual installation charge and updated the labor, equipment, materials, and overhead required for each installation. The current labor and benefit rates, equipment charges, and materials and handling costs were used in the analysis. The update found that the labor hours required to perform the installations has increased significantly from the prior analysis due to an increased effort for best management practices (BMPs), traffic control, and local permit requirements. In addition, the previous charges did not include cost of supervisory staff that manages the installation work. The study also found that the three percent annual effective increase since FY04 did not keep up with the District's labor, benefit, and inflation costs.

The cost analysis for the FY19 update resulted in proposed FY19 charges that are significantly higher than current charges; many of the proposed increases are 100 percent or greater than the current installation charge. Appendix A shows the results of the updated charges resulting from the cost analysis. For example, the updated cost to install a 1 ½-inch lateral and meter or a 2-inch lateral and meter was determined to be \$14,439 compared to the current charge of \$6,379 for a 1 ½-inch and \$7,301 for a 2-inch, an increase of 125 percent and 97 percent respectively. Because of these large increases, staff recommends that the proposed increases be phased-in over the next three years. The shortfall in revenue collected from the phase-in of the increases to the installation charges in FY19 and FY20 will be funded from higher than budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values. By phasing in these large increases to the installation charges, the District will avoid the financial shock to applicants for new services that could negatively impact the increase in new construction and growth in water accounts. The recent growth in water accounts will provide more financial stability to the District in the future and will benefit all ratepayers. In addition, some of the individual installation charges that are listed by meter and lateral size that have essentially the same District

costs have been combined to simplify the schedule. Service installation charges for the first year of the three-year phase-in for FY19 are shown in the proposed Schedule D - Water Service Installations Charges under Chapter 5 of this report. The District's updated costs for water service installations are comparable to the charges of other local water utilities as shown in Appendix B of this report.

Schedule E – Private Fire Service Installation Charges

Schedule E contains the installation charges for private fire services that supply capacity for private fire sprinkler systems. The current installation charges are based on periodic updates for cost increases to the charges established in FY07. The effective increase in the installation charges since FY07 has been approximately 3.5 percent per year. As part of our comprehensive review of water fees and charges, the District analyzed the details of the cost analysis for Private Fire Service Installation Charges and updated the labor, equipment, materials, and overhead required for each installation. The current labor and benefit rates, equipment charges, and materials and handling costs were used in the analysis. The study found that the 3.5 percent annual effective increase since FY07 did not keep up with the District's labor, benefit, and inflation costs.

The cost analysis for the FY19 update found that there was minimal difference in the cost to install a 6-inch or an 8-inch private fire service, so the recommendation is to charge the same fee for the 6-inch and the 8-inch private fire service. If the full increase was implemented in FY19, this would result in an \$8,869 increase to the current \$20,830 charge for a 6-inch private fire service meter or 43 percent. Therefore, staff recommends that the increase for the installation charges for the private fire service meter be phased-in over the next three years. The shortfall in revenue collected from the phase-in of the increases to the installation charges in FY19 and FY20 will be funded from higher than budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values. Fire service installation charges for the first year of the three-year phase-in for FY19 are shown in the proposed Schedule E – Private Fire Service Installation Charges under Chapter 5 of this report. Appendix A shows the results of the updated Private Fire Service Installation Charges resulting from the costs analysis without the recommended three-year phase-in. The District's updated Private Fire Service Installation Charge is comparable to the charges of other local water utilities as shown in Appendix B of this report.

Schedule F – Public Fire Hydrant Installation Charges

Schedule F contains the installation charges for public fire hydrants. The public fire hydrant installation charge is almost exclusively paid by developers as a requirement for new development areas or for projects in redevelopment areas. The current installation charges are based on periodic updates for cost increases to the charges that were established in FY04. The effective increase in the installation charges since FY04 has been approximately three percent per year. As part of our comprehensive review of water fees and charges, the District analyzed the details of the cost analysis for public fire hydrant installation charges and updated the labor, equipment, materials, and overhead required for each installation. The current labor and benefit rates, equipment charges, and materials and handling costs were used in the analysis. The update found that the labor hours required to perform fire hydrant installations has increased significantly from the prior analysis due to increased effort for best management practices (BMPs), traffic control, and local permit requirements. In addition, the previous charges did not include cost of supervisory staff that manages the installation work. The study found that the three percent annual effective increase since FY04 did not keep up with the District's labor, benefit, and inflation costs.

The cost analysis for the FY19 update shows that the cost to the District to install a fire hydrant is \$29,511, which is a \$15,715 increase from the current \$13,796 charge or 114 percent. Therefore, staff recommends that the increase for the charge for the public fire hydrant installation be phased-in over the next three years. The shortfall in revenue collected from the phase-in of the increases to the installation charges in FY19 and FY20 will be funded from higher than budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values. Hydrant installation charges the first year of the three-year phase-in for FY19 are shown in the proposed Schedule F – Public Fire Hydrant Installation Charges under Chapter 5 of this report. Appendix A shows that results of the updated Public Fire Hydrant Installation Charges resulting from the cost analysis without the recommended three-year phase-in. The District's Fire Hydrant Installation Charge is comparable to the charges of other local water utilities as shown in Appendix B of this report.

Schedule G – Water Main Extension Charges

Schedule G contains the installation charges for water main extensions for both District installed and applicant installed main extensions. The District performs all the work for all water main extensions up to 1,000 feet. For main extensions greater than 1,000 feet, the District performs the engineering and design, survey and inspection work, and the applicant is responsible for installation of the pipeline. The current installation charges are based on periodic updates for cost increases to the charges that were established in FY06. The effective increase in the installation charges since FY06 has been approximately 3.5 percent per year. As part of our comprehensive review of water fees and charges, the District analyzed the details of the cost of recent main extensions. The update found that the District's main extension costs on a cost per foot basis are higher than the current charges in Schedule G. The study found that the 3.5 percent annual effective increase since FY06 did not keep up with the District's labor, benefit, and inflation costs.

The cost analysis for the FY19 update resulted in proposed FY19 charges that are significantly higher than current charges; the proposed increases are about 70 to 80 percent greater than the current per foot main extension charges. Appendix A shows the results of the updated charges resulting from the costs analysis. For example, the updated cost for a District installed 8-inch steel main under paved condition is \$479 per foot, an increase of \$202 per foot or 73 percent. For an applicant installed 8-inch main extension, the updated cost is \$55 per foot, an increase of \$21 per foot or 62 percent. Because of these large increases, staff recommends that the proposed increases be phased-in over the next three years. The shortfall in revenue collected from the phase-in of the increases to the main extension charges in FY19 and FY20 will be funded from higher than budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values. By phasing in these large increases to the main extension charges, the District will avoid the financial shock to applicants for new services that could negatively impact the increase in new construction and growth in water accounts. The recent growth in water accounts will provide more financial stability to the District in the future and will benefit all ratepayers. In addition, charges for HDPE pipeline and for 12-inch main extensions for both District installed and applicant installed extensions have been added to the schedule. Water Main Extension Charges for the first year of the three-year phase-in for FY19 are shown in the proposed Schedule G - Water Main Extension Charges under Chapter 5 of this report.

Real Property Use Application Fees

The District may allow for use of its property by other public agencies or private entities after evaluating if the proposed use adversely impacts District operations, is compatible with District land

management policies and practices, and if there are measurable benefits to the District. The Real Property Use Application Fees schedule recovers the cost of evaluating the applications based on the type of use being requested. For FY19 the following changes to Real Property Use Application Fees are proposed to reflect the District's current costs:

- Fee Title Fee for Properties for Sale will increase from \$2,100 to \$2,200
- Unsolicited Title Fee will increase from \$12,300 to \$12,700
- Utility Type Easement Fee will increase from \$2,100 to \$2,200
- Other types of Easement Fees will increase from \$5,700 to \$5,900
- Quitclaim for Pipe Abandonment will increase from \$1,000 to \$1,100
- Other types of Quitclaim will increase from \$2,300 to \$2,400
- Lease Fee will increase from \$2,100 to \$2,200
- Telecommunication Lease Fee will increase from \$3,500 to \$3,700
- Information only and Process and Review of Proposals will increase from \$130/hour to \$140/hour
- Property Entry and Rights of Entry Permits will increase from \$310 to \$330
- Limited Land Use Permit will increase from \$110 to \$120
- Temporary Construction Easement/Encroachment Permits on open land with no District facilities will increase from \$630 to \$650, and with District facilities will increase from \$2,200 to \$2,300
- Survey costs will increase from \$140/hour to \$150/hour

Water Service Regulations

Portions of Sections 1, 2, 3, 29 and 31 of the District's Regulations Governing Water Service require changes to clarify and update the District requirements for water service. Some of these proposed changes to the regulations clarify how premises, landscape areas, and accessory dwelling units are defined and specify requirements for metering of multi-family and multi-occupancy premises. In addition, the regulations have been updated to reflect the anticipated actions by the State Water Resources Control Board (SWRCB) for permanent statewide water use prohibitions and changes in the state regulations that impact water efficiency requirements.

We recommend that the water service regulations be amended as follows:

Section 1 – Explanation of Terms Used in These Regulations

Proposed changes amend definitions pertaining to Accessory Dwelling Units, Landscape Area and Premises to clarify the District's regulations on new developments including improvements on existing structures. The definition of Premises now includes consideration of the assessor parcel line. The definition of Irrigated Landscaping includes additional clarification on water service for irrigable landscape areas that is managed by a single entity such as a homeowner's associations, and a detailed definition of an Accessory Dwelling Unit has been added.

Section 2 – Applying for Service

Changes are proposed to this regulation to clarify when the Customer Service Center should be contacted to stop and restart water service, elaborate on the individual metering requirements for

individual units in newly constructed multi-family or multi-occupant premises, and replace the term “location” with “premises”.

Section 3 – Standard Service

Proposed changes clarify when a landscape service can be installed and the conditions when a master meter can be installed in a newly constructed multi-family or multi-occupancy premises.

Section 29 – Water Use Restrictions

The title of this regulation is proposed to change from Prohibiting Wasteful Use of Water to Water Use Restrictions to be consistent with the current District practice and reference to water use restrictions. The proposed edits reflect the anticipated actions by the SWRCB for permanent statewide water use restrictions and prohibitions.

Section 31 – Water Efficiency Requirements

This regulation has been revised to clarify the bases for outdoor water use calculations and the circumstance under which dedicated irrigation meters will be required, and to include efficiency updates as the result of new state code requirements under CalGreen (fixtures and flow rates) and MWELo (landscaping plans).

2. Water System Capacity Charges

Chapter 2 – Water System Capacity Charges/ Water Demand Mitigation Fees

INTRODUCTION

There is a continuing need to construct both water supply and water distribution system improvements to assure that there will be reliable and secure water service for each new or upsized connection to the District's system. The System Capacity Charge (SCC) was first established in 1983 as a means of assessing applicants an appropriate share of the costs of water distribution capital improvements within the SCC regions of the District. In 1986, an appropriate share of the costs of future water supply improvements was added to the SCC.

All applicants for water service are required to pay the SCC when the installation of a new service or upsizing of an existing connection is needed. The SCC is applied on a regional basis (See Exhibit 1 for map), and the SCC charge is updated annually to reflect construction cost escalation for facilities that have already been built or increased cost estimates for facilities yet to be constructed and financed.

In FY08, the Board adopted the recommendations of the SCC Study performed by a rate consultant. The proposed FY19 SCC rates are based on updates to calculations from that study, the details of which are contained in Exhibit 2. The SCC consists of three components:

1. A System-wide Buy-In Component, which is calculated to recover a portion of the cost of existing facilities that serve the system as a whole;
2. A Regional Buy-In Component, which is calculated to recover a portion of the costs of existing facilities that serve one of the three SCC Regions (notably treatment plant and distribution facilities); and
3. A Future Water Supply (FWS) Component, which is calculated to recover a portion of the costs of future water supply projects that are allocated to new and upsized connections.

The District also has a Standard Participation Charge (SPC), a District-wide connection charge that is applicable to only a few remaining contracts for service entered into prior to 1983 that was first established in 1978. The SPC was designed to recover the District-wide average cost of distribution facilities constructed to serve new connections and was superseded by the SCC in 1983. A FWS Component was added to the SPC in 1986. The SPC charge is calculated to recover the latest Water Supply Management Plan costs and will continue to be less than the SCC charge in most regions. Customers eligible for service under the SPC regulations can pay for service under the more favorable of either of the SPC or SCC terms and conditions.

RECOMMENDATIONS

1. Adopt the FY19 Schedule J for the Water System Capacity Charge (SCC). All regions reflect updates for the construction of additional facilities, construction cost escalation, financing costs, and revised estimated costs to complete the FWS projects.

2. Adopt the FY19 Schedule H for the SPC that reflects the allowable cost for facilities necessary to serve applicants who had separate facility agreements with the District prior to July 1, 1983.
3. Adopt the FY19 Schedule N for Water Demand Mitigation Fees for “The Wendt Ranch,” “The Meadows,” “The Wiedemann Ranch Development,” the “Camino Tassajara Integrated Project” and the “Gale Ranch Phase II” projects, which reflect the latest proposed costs for the FWS Component of the SCC. In addition, the Water Use Offset Fees and Additional Water Use Offset Fees for “The Wiedemann Ranch Development” have been updated to reflect the latest U.S. City Average of the Consumer Price Index.

The changes and updates recommended for the SCC, SPC and Water Demand Mitigation Fees will be effective on August 13, 2018. These rates are not subject to the requirements of California Constitution article XIII D, section 6 (i.e., Proposition 218). However, they are subject to California Constitution article XIII C, section 1(e) (i.e., Proposition 26), and California Government Code section 66013, and are in full compliance with their requirements.

DISCUSSION

For FY08, with the assistance from a rate consultant, the District revised its approach to the SCC and established the system-wide and regional buy-in components. Pursuant to the methodology outlined in the consultant report, the proposed SCC have been updated for the Engineering News Record Construction Cost Index escalation to reflect increasing costs to reproduce existing plant assets needed to serve prospective customers. The updated asset values used in the proposed FY19 SCC rate calculations are consistent with the rate consultant report and are shown in Exhibit 2. The FWS Component was also updated for FY19.

SCC Rate Calculations

The proposed SCC rates are shown in Table 1 for a 3/4-inch meter for single-family residential and 5/8-inch meter non-residential customers. These meter connections account for the majority of all future water service connections. Larger meters pay proportionately more based on the estimated usage of the new connections. Non-residential connections pay more in some regions due to higher consumption.

Table 1: Updated SCC

Region	Water Consumption		Unit Costs \$/100 gpd	Capacity Charge	
	Residential 3/4" (gpd)	Non Res 5/8" (gpd)		Residential 3/4" \$ (% increase)	Non Res 5/8" \$ (% increase)
Region 1	280	400	\$6,463	\$18,100 (3.3%)	\$25,850 (3.2%)
Region 2	360	535	\$8,708	\$31,350 (3.3%)	\$46,590 (3.3%)
Region 3	580	625	\$6,903	\$40,040 (3.3%)	\$43,140 (3.3%)
Region 3C	775	775	\$11,861	\$91,930 (2.6%)	See Note 1
Region 3D	775	775	\$13,348	\$103,450 (2.6%)	\$103,450 (2.6%)

Note 1: Calculated based on a 1993 Agreement with HCV & Associates Ltd., Wiedemann Ranch, Inc., and Sue Christensen.

The SCC for each region is derived from the sum of the unit charges of each of the SCC components and then multiplied by the estimated average daily water consumption in that SCC region as listed in Table 1. The District has determined average daily water consumption values for meters up through 1½ inches within each SCC region, and established SCCs based on those averages. For larger meter sizes, the SCC is determined using the same methodology as for smaller meters but calculated on a case-by-case basis from the unit charges of the three SCC components and multiplied by the estimated required demand of the requested service installation.

Applicants for nonpotable/recycled water service have their SCC calculated based solely on the FWS Component. These customers are not served by the potable water system; they are served through a separate nonpotable/recycled water system.

SCC Unit Charges

Table 2 shows the breakdown of the unit charges for individual components: system-wide buy-in; regional buy-in; post-2000 component (for Special Regions only); and future water supply costs by region.

The SCC for the two remaining Special Regions 3C and 3D recover the costs of the additional facilities that were built to serve new connections in these regions; costs associated with these facilities are being referred to in Schedule J as the “post-2000 component” unit charge. The regional buy-in unit costs for Special Regions 3C and 3D are lower than the Region 3 regional buy-in unit costs to account for distribution pumping and reservoir costs that are already included in the post-2000 component.

Table 2: Updated SCC Unit Charges

Region	Unit Charges \$/100 gpd				
	System-Wide Buy-In	Regional Buy-In	Post 2000	Future Water Supply	Total
Region 1	\$2,185	\$2,179		\$2,099	\$6,463
Region 2	\$2,185	\$4,424		\$2,099	\$8,708
Region 3	\$2,185	\$2,619		\$2,099	\$6,903
Region 3C	\$2,185	\$1,965	\$7,099	\$612*	\$11,861
Region 3D	\$2,185	\$1,965	\$7,099	\$2,099	\$13,348

*The FWS Component for Region 3C is \$612 per 100 gpd based on the 1993 Agreement with HCV & Associates Ltd., Wiedemann Ranch, Inc. and Sue Christensen.

The SCC unit charges are calculated by dividing the current asset values from Tables 10, 11, and 16 in Exhibit 2 by the 2030 demand numbers, which are summarized in Tables 3 and 4 below:

Table 3: SCC Asset Values

Asset Category	Asset Value
System-Wide Buy-In	\$4,632,583,482*
Regional Buy-In Region 1	\$2,528,251,409
Regional Buy-In Region 2	\$1,331,867,452
<u>Regional Buy-In Region 3</u>	<u>\$1,726,315,092</u>
Regional Buy-In Total	\$5,586,433,954**
Adjusted Asset Values Used in Buy-In Unit Costs	\$10,219,017,436***
Future Water Supply	\$ 1,129,000,000

*Exhibit 2 Table 11 line 2

**Exhibit 2 Table 16 line 10

***Exhibit 2 Table 10 line 6

Table 4: SCC 2030 Demand by Region

REGION	Total Demand (MGD)	per SFR Connection (gpd)	per Non Res Connection (gpd)
Region 1	116.0	280	400
Region 2	30.1	360	535
Region 3	65.9	580	625
Total	212.0	n/a	n/a

Future Water Supply Component Details

The unit cost of the FWS Component for FY19 will increase from \$2,046 per 100 gpd to \$2,099 per 100 gpd, an increase of 2.6%, as a result of cost changes to current and future projects and updates to the costs of financing for those projects that have already been completed. The revised costs for these projects are shown in Table 5 and are described below. The total FWS cost allocated to the SCC is divided by the future demand of 53.8 MGD to calculate the unit cost of the FWS Component.

Table 5: Future Water Supply Project Costs and Unit Rate

FY19 Future Water Supply Projects (\$ millions)				
Major Projects	Total Costs	Costs Allocated to SCC		
		Allocated Costs*	Allocated Capitalized Interest**	TOTAL
Completed Projects				
WSMP Study and EIR Costs	\$77			
Water Recycling	139			
Freeport Regional Water Project	488			
Local Ground Water and Intertie	36			
Central Valley Project Capital Facilities	11			
Subtotal	751	526	281	807
Future Projects	460	322	-	322
TOTAL	\$1,211	\$848	\$281	\$1,129 ***
Future Water Supply Unit Rate	\$1,129 Million/53.8 MGD = \$2,099 per 100 gpd			

*70% of the Total Costs are allocated to the Future Water Supply Component of the SCC.

**Capitalized Interest represents the financing costs of expenditures for water supply projects that were undertaken since 1986.

***The comparable amount used in the FY18 SCC calculation was \$1,101 million.

The FWS project costs allocated to the SCC includes \$807 million for completed projects including financing costs and an additional \$322 million for future projects.

Completed Projects

Completed projects include \$77.4 million for study and EIR costs, \$139 million for current recycled water projects, \$488 million for the Freeport Regional Water Project, \$36 million for local groundwater and intertie projects, and \$11 million for the Central Valley Water Project facilities.

The current recycled water projects include the initial phase of the East Bayshore Recycled Water Project, the District's portion of the Dublin-San Ramon Services District – EBMUD Recycled Water Authority Project, North Richmond Recycled Water Project, and other recycled water irrigation projects.

The District's portion of the expenses to construct the Freeport Regional Water Project (FRWP) and the associated Folsom South Canal Connection reflects current cost information. The FRWP is a joint project with Sacramento County Water Agency. FRWP at its peak capacity can divert and treat up to 185 million gallons of water per day from the Sacramento River near the town of Freeport. The total cost of the joint project was approximately \$922 million with the District's portion of the costs of approximately \$488 million, which includes the above-mentioned intake system, pipelines and pump stations, as well as project management costs incurred by the District. FRWP has the capacity to provide the District with up to 100 million gallons of water per day.

As part of the future water supply programs, the District has completed Phase 1 of the Bayside Groundwater Project and an intertie project with Hayward-San Francisco. The intertie serves to provide an emergency connection to the San Francisco Public Utilities Commission's Hetch Hetchy water system. Construction was completed in FY09.

Capital facilities of the Central Valley Project that are allocated to the District are included in the FWS Projects.

Future Projects

Future projects in the Water Supply program include conjunctive use projects, water transfers, and the expansion of local groundwater and water recycling projects. Conjunctive use projects (including groundwater banking and storage options) are being developed with multiple San Joaquin County, Calaveras County, and Amador County water agencies. The District water transfer efforts are focused on developing long-term dry-year water transfer agreements, but the District will also continue to implement temporary, short-term water transfers as needed. Phase 2 of the Bayside Groundwater project would increase the District's ability to store water in the deep aquifer in the East Bay Plain. Another \$250 million is expected to be spent on future expansion of both the East Bayshore and DERWA projects as well as other water recycling projects in the San Ramon Valley, San Leandro, Richmond, Rodeo, and surrounding areas. The District is partnering with the Contra Costa Water District to evaluate options to participate in its Los Vaqueros Reservoir Expansion. The District has also been participating in development of the Bay Area Regional Reliability Drought Contingency Plan, but none of the other projects identified in that effort are ready to be included in the FWS plan.

Exhibit 1

East Bay Municipal Utility District Distribution System SCC Regions



Exhibit 2

Table 7. EBMUD Water SCC Review
Water System Fixed Asset Balances (as of 1/1/2018)

Account	Description	Original Cost	Current Value ENR	Allocation
			2018*	
1001	Auto Control System	\$69,616,886	\$134,779,752	System-wide
1005	Hydroelect Power Generation	\$50,165,544	\$148,918,323	System-wide
1015	Source of Water Supply	\$116,244,212	\$830,259,166	System-wide
1025	Raw Wtr Transmission	\$326,793,370	\$2,288,921,406	System-wide
1060	Raw Wtr Trans Pump	\$40,844,897	\$125,884,423	System-wide
1080	Terminal Reservoirs	\$193,360,238	\$941,843,118	System-wide
1100	Water Treatment	379,876,736	\$898,280,079	By Region
1130	Distribution Pumping	176,813,081	\$355,411,153	By Region
1140	Distribution Reservoirs	338,690,760	\$1,042,726,070	By Region
1166	Distribution Mains	1,133,134,095	\$4,079,606,314	By Region
1170	Distribution Aqueducts	89,169,460	\$325,337,906	By Region
1175	Pressure Regulators	30,625,255	\$68,057,039	By Region
1180	Venturi Meters & Cath Prot Sta	6,032,937	\$12,435,711	By Region
1185	Distribution Hydrants	55,112,392	\$207,148,987	By Region
1200	General Plant Structures	\$217,567,238	\$417,284,552	System-wide
1205	Equipment-Trans & Constr	\$50,498,327	\$79,209,026	System-wide
1210	Equipment-Office	\$19,922,148	\$35,241,511	System-wide
1215	Equipment- Eng & Lab	\$3,699,288	\$6,935,040	System-wide
1220	Equipment-Tools & Work	\$4,516,067	\$8,490,822	System-wide
1225	Equipment- Stores	\$7,894	\$14,498	System-wide
1230	Equipment- Shop	\$1,688,016	\$3,214,297	System-wide
1300	Land Source of Supply	\$7,832,091	\$107,656,724	System-wide
1310	Land Raw Wtr Trans	\$3,710,592	\$51,022,386	System-wide
1315	ROW Raw Wtr Trans	\$1,229,538	\$3,464,186	System-wide
1320	Land Terminal Reservoirs	\$18,931,841	\$230,489,288	System-wide
1330	Land Water Treatment	\$2,974,390	\$20,718,744	System-wide
1340	Land Reclamation	\$2,174,793	\$4,316,891	System-wide
1350	Land Distribution	\$7,928,007	\$64,473,568	System-wide
1355	Land	\$1,737,088	\$4,471,948	System-wide
1360	Land General Plan	\$7,714,529	\$23,305,231	System-wide
1910	Unallocated As Built Costs	\$10,304,085	\$19,567,696	System-wide
1911	Deferred Software Costs	\$66,439,595	\$95,271,615	System-wide
1981	Dfd EB Wtrshed Master Pln Costs	\$5,900,230	\$9,181,297	System-wide
1985	Dfd Lab Expansion Costs	\$8,874,204	\$17,165,997	System-wide
1986	Dfd Solids Receiving Costs	\$728,024	\$1,672,825	System-wide
1988	Prelim Eng & Environ Studies	\$74,404,275	\$121,898,064	System-wide
	Subtotal	\$1,315,807,407	\$5,795,672,395	System-wide
	Subtotal	\$2,209,454,716	\$6,989,003,259	By Region
	TOTAL	\$3,525,262,123	\$12,784,675,654	

*Original cost escalated by ENR Construction Cost Index from date of acquisition.

Source: EBMUD's ledger balance as of December 31, 2013

Table 8. EBMUD Water SCC Review
System-Wide Fixed Asset Balances in Buy-In (as of 1/1/2018)

Account Description	Original Cost	Current Value ENR 2018*
1001 Auto Control System	\$69,616,886	\$134,779,752
1005 Hydroelect Power Generation	50,165,544	\$148,918,323
1015 Source of Water Supply	116,244,212	\$830,259,166
1025 Raw Wtr Transmission	326,793,370	\$2,288,921,406
1060 Raw Wtr Trans Pump	40,844,897	\$125,884,423
1080 Terminal Reservoirs	193,360,238	\$941,843,118
1200 General Plant Structures	217,567,238	\$417,284,552
1205 Equipment-Trans & Constr	50,498,327	\$79,209,026
1210 Equipment-Office	19,922,148	\$35,241,511
1215 Equipment- Eng & Lab	3,699,288	\$6,935,040
1220 Equipment-Tools & Work	4,516,067	\$8,490,822
1225 Equipment- Stores	7,894	\$14,498
1230 Equipment- Shop	1,688,016	\$3,214,297
1300 Land Source of Supply	7,832,091	\$107,656,724
1310 Land Raw Wtr Trans	3,710,592	\$51,022,386
1315 ROW Raw Wtr Trans	1,229,538	\$3,464,186
1320 Land Terminal Reservoirs	18,931,841	\$230,489,288
1330 Land Water Treatment	2,974,390	\$20,718,744
1340 Land Reclamation	2,174,793	\$4,316,891
1350 Land Distribution	7,928,007	\$64,473,568
1355 Land	1,737,088	\$4,471,948
1360 Land General Plan	7,714,529	\$23,305,231
1910 Unallocated As Built Costs	10,304,085	\$19,567,696
1911 Deferred Software Costs	66,439,595	\$95,271,615
1981 Dfd EB Wtrshed Master Pln Costs	5,900,230	\$9,181,297
1985 Dfd Lab Expansion Costs	8,874,204	\$17,165,997
1986 Dfd Solids Receiving Costs	728,024	\$1,672,825
1988 Prelim Eng & Environ Studies	74,404,275	\$121,898,064
TOTAL	\$1,315,807,407	\$5,795,672,395

*Original cost escalated by ENR Construction Cost Index from date of acquisition.

Source: EBMUD's ledger balance as of December 31, 2013

**Table 10. EBMUD Water SCC Review
Adjustment of Fixed Asset Value**

	Value	% of Total
1/1/18 Fixed Assets Value (Escalated by ENR)	\$12,784,675,654	
6/30/17 Fixed Assets Value (Escalated by ENR)	\$12,584,786,492	100%
Adjustment to Fixed Assets:		
Less Outstanding Debt (6/30/17)	-\$3,044,680,000	
Plus Existing Cash Reserves (6/30/17)	\$519,136,000	
Net Fixed Assets Value (6/30/17)	\$10,059,242,492	79.93%
Net Fixed Assets Value (1/1/18)	\$10,219,017,436	
Adjustment Factor of Fixed Assets		79.93%

**Table 11. EBMUD Water SCC Review
Calculation of Buy-in to System-Wide Fixed Assets**

System-Wide Fixed Assets (from Table 7)		\$5,795,672,395
Net System-Wide Fixed Assets Value	79.93%	\$4,632,583,482
District Projected Net 2030 Consumption (gpd)		212,000,000
Buy-in to Net System Wide Fixed Assets (\$/100 gpd)		\$2,185

Table 16. EBMUD Water SCC Review
Combined Regions Regional Fixed Assets Buy-in Calculations*
(as of 1/1/18)

Account	Descr	Region1	Region 2	Region 3	Total	
1100	Water Treatment	\$444,405,504	\$146,671,352	\$307,203,223	\$898,280,079	
1130	Distr Pumping	\$69,532,115	\$121,116,276	\$164,762,762	\$355,411,153	
1140	Distr Reserv	\$285,237,169	\$382,863,278	\$374,625,623	\$1,042,726,070	
1166	Distr Main	\$1,981,039,286	\$870,920,437	\$1,227,646,592	\$4,079,606,315	
1170	Distr Aqueducts	\$258,264,846	\$67,073,060	\$0	\$325,337,906	
1175	Pressure Regul	\$17,848,466	\$41,472,084	\$8,736,489	\$68,057,039	
1180	Venturi & Cathodic	\$7,750,891	\$675,384	\$4,009,436	\$12,435,710	
1185	Distr Hydrants	<u>\$98,933,670</u>	<u>\$35,463,569</u>	<u>\$72,751,747</u>	<u>\$207,148,987</u>	
	Total	3,163,011,947	1,666,255,439	2,159,735,872	6,989,003,259	
	Adjusted totals					
		79.93%	2,528,251,409	1,331,867,452	1,726,315,092	5,586,433,954
	Regional Consumption gpd	116,000,000	30,100,000	65,900,000		
	Regional Buy-in \$/100 gpd	\$2,179	\$4,424	\$2,619		

*Original cost escalated by ENR Construction Cost Index from date of acquisition.

**3. Wastewater System
Rates, Charges & Fees**

Chapter 3 – Wastewater System Rates, Charges and Fees

RECOMMENDATION

- Change the Resource Recovery rate schedule to add a material type for Clean Liquid Food Waste Slurry as shown on Schedule F Wastewater Department Rates for Resource Recovery Waste Treatment under Chapter 5.

These rates are not subject to the requirements of Proposition 218.

DISCUSSION

Resource Recovery Program

The Resource Recovery Program has been a significant source of revenue for the District through utilization of excess capacity at the Main Wastewater Treatment Plant (MWWTP) by the acceptance of trucked wastes. This program provides an environmentally sound disposal alternative to the community while maintaining fiscal responsibility to the ratepayers by utilizing the District's excess capacity.

Based on the District's experience in operating the Resource Recovery facilities and the knowledge of customer's waste streams, the District proposes to add a material type for Clean Liquid Food Waste Slurry. Food waste slurries with high total solids content are currently categorized as sludge, however, food waste is more degradable with more energy recovery potential than typical sludge materials, lowering the cost of treatment. The new rate reflects the lower cost of treatment and provides more attractive pricing to potential food waste sources such as large commercial and institutional establishments. The proposed rate is variable with the percent total solids - \$0.05 per gallon up to 3 percent total solids and an additional \$0.005 per gallon per each percent total solids between 3 percent and 20 percent.

4. Wastewater Capacity Fees

Chapter 4 – Wastewater Capacity Fees

INTRODUCTION

The Wastewater Capacity Fee (WCF) was implemented in 1987 to recover costs of providing wastewater treatment capacity for new or expanded system use. The WCF is based on a “buy-in” or an equity approach, whereby new users “buy-in” to a wastewater system that has adequate capacity to serve both existing demands and new growth. The wastewater system capacity is expressed in terms of wastewater flow volume (flow) and strength factors including Chemical Oxygen Demand Filtered (CODF) and Total Suspended Solids (TSS). The WCF applies to all dischargers who increase wastewater volume or strength. For example, an additional capacity fee may be required to be paid if a property is developed and connects to the wastewater system, changes use or is redeveloped and increases the volume or strength of the wastewater it discharges, or a flow review has been completed by the District that demonstrates that the volume and/or strength of the wastewater discharged from a non-residential property has significantly increased or is greater than anticipated at the time a WCF was first paid. The WCF is calculated based on the anticipated flow contributions multiplied by the average wastewater strength measured or assigned for each classification of customer and the unit capacity rates for flow and strength factors. For non-residential customers, a review of the actual flow and strength may be conducted within 24 months, once the business is fully established, to verify the estimated demand for wastewater capacity. The review may result in the assessment of additional capacity fees if the actual flow and strength exceeds the original estimate.

These rates are not subject to the requirements of California Constitution article XIII D, section 6 (i.e., Proposition 218). However, they are subject to California Constitution article XIII C, section 1(e) (i.e., Proposition 26), and California Government Code section 66013, and are in full compliance with their requirements.

RECOMMENDATION

- Adopt the FY19 Schedule G for the Wastewater Department Capacity Fees. The proposed fees include updates for the construction of additional facilities and construction cost escalations.

The changes and updates recommended for the WCF will be effective on August 13, 2018.

DISCUSSION

In 2013 the Board approved a modification to the wastewater treatment capacity used in the WCF calculation from the design-capacity value of 120 million gallons per day (MGD) to a build-out capacity of 85 MGD to reflect the treatment capacity required to serve the build-out service population of the wastewater service area. The modifications to the WCF calculations were recommended by a financial rate consultant hired to conduct a comprehensive study of the District’s WCF methodology. The Board approved the change in the WCF calculation and phased the change in over five years. If the change to the design capacity had been implemented in one step, the unit rates of the WCF would have increased in FY14 by 49.2 percent for flow, 154.8

percent for CODF and 45.7 percent for TSS and the resulting WCF increase for FY14 to the single family connection would be have been 60.2 percent. Staff recommended and the Board agreed to a five-year phase-in of the change.

For FY19 staff has updated the WCF calculations to reflect construction cost escalations. These calculations are shown in Tables 1 through 4. For FY19, the WCF rate is proposed to increase by 4.0 percent for the single-family connection, going from \$2,510 to \$2,610. Table 1 shows the proposed unit capacity rates for FY19. The entire list of proposed capacity fees for FY19 is contained in Schedule G – Wastewater Department Capacity Fees in Chapter 5. The updated calculations for the WCF are shown in Tables 2 through 4 of Exhibit 1.

TABLE 1 UNIT WASTEWATER CAPACITY FEE RATES WITH PROPOSED DESIGN FLOWMODIFICATION

Unit Capacity Rate	Current	FY19	% Incr
Flow /Ccf/Month	\$184.44	\$191.93	4.0%
CODF /lbs/Month	\$ 57.27	\$ 59.59	4.0%
TSS /lbs/Month	\$ 72.96	\$ 75.92	4.0%

Single Family Capacity Fee	\$2,510	\$2,610	4.0%
-----------------------------------	----------------	----------------	-------------

Exhibit 1

Table 2

EBMUD Wastewater Capacity Fee Analysis
Asset Values by Class Code (as of 1/1/18)

<u>Class Code</u>	<u>Class Description</u>	Original Value	2018 ENR Adjusted Value
		<u>Class Total</u>	<u>Class Total</u>
WW0301 Total	North Interceptor	\$41,667,643	\$125,091,282
WW0302 Total	South Interceptor	34,258,339	196,452,604
WW0303 Total	Alameda Interceptor	9,630,895	44,025,866
WW0304 Total	Estuary Crossing	456,493	8,723,012
WW0305 Total	Central Avenue Interceptor	8,938,996	16,417,856
WW0306 Total	South Foothill Interceptor	21,468,263	42,499,850
WW0307 Total	Adeline Street Interceptor	18,612,785	35,067,313
WW0308 Total	Powell Street Interceptor	5,290,727	10,150,711
WW0309 Total	ANAS Interceptor	3,487,760	5,978,625
WW0310 Total	Wood St Interceptor	798,725	1,396,004
WW0311 Total	Mwwtp-Outfall Land	2,078,909	38,049,928
WW0312 Total	Mwwtp-Outfall Submarine	5,545,770	35,913,066
WW0313 Total	Mwwtp-Outfall Bridge	238,025	560,791
WW0321 Total	Pump Station A-Albany	3,671,840	6,990,847
WW0322 Total	Pump Station B-Fernside	6,626,560	13,607,494
WW0323 Total	Pump Station C-Krusi Park	13,118,647	27,563,001
WW0324 Total	Pump Station D-Oak Street	1,457,339	2,422,495
WW0325 Total	Pump Station E-Grand Street	1,437,475	2,239,044
WW0326 Total	Pump Station F-Atlantic Avenue	1,858,182	5,027,171
WW0327 Total	Pump Station G-Airport	2,676,794	6,113,403
WW0328 Total	Pump Station H-Fruitvale	11,425,516	21,737,090
WW0329 Total	Pump Station J-Frederick Street	1,353,719	4,286,292
WW0330 Total	Pump Station K-7Th Street	1,426,705	4,357,140
WW0331 Total	Pump Station L	4,860,237	9,516,166
WW0333 Total	Pump Station Q- Wet Weather Page St Berkeley	570,705	1,014,237
WW0334 Total	Pump Station N (new)	6,329	8,639
WW0335 Total	ANAS Pump Station	7,367,039	12,632,932
WW0341 Total	Mwwtp-Influent Pump Station	33,580,591	76,426,901
WW0342 Total	Mwwtp-Effluent Pump Station	18,614,506	50,348,193
WW0343 Total	Pt. Isabel Tp-Treatment & Pretreatment Structures	45,242,670	80,040,463
WW0344 Total	Pump Station M - Bridgeway	1,817,199	3,202,867
WW0346 Total	Mwwtp-Mid-Plant Pump Station	6,638,722	10,825,276
WW0347 Total	Mwwtp-Water Pump Station #3	896,125	1,780,948
WW0348 Total	Mwwtp-Wet Weather Pump Station	950,812	1,449,349
WW0349 Total	Mwwtp-Washdown Pump Station	215,504	428,290
WW0351 Total	Mwwtp-Aerated Grit Tanks	7,026,001	26,484,558
WW0352 Total	Mwwtp-Chlorine System	126,681	163,879
WW0354 Total	Point Richmond-Pretreatment Structure	8,000	14,930
WW0355 Total	Oakport Wet Weather-Pretreatment Structure	8,697,836	19,543,651
WW0356 Total	Oakport Wet Weather-Pretreatment Structure	737,462	1,658,413
WW0357 Total	Mwwtp-Grit Dewatering Station	12,447,091	17,842,060
WW0358 Total	Mwwtp-Channel Crossing For Bypass Channel	4,780,140	9,499,993
WW0359 Total	Mwwtp 90" Pipe-Primry Effluent Bypass	2,005,802	3,986,307
WW0360 Total	Mwwtp 72" Pipe-Primry Influent Bypass	2,540,549	4,891,649
WW0361 Total	Mwwtp-Diversion Structure	25,290,502	74,360,878
WW0362 Total	Mwwtp-Bypass Inlet Structure	15,415,976	66,920,430

Table 2 (cont.)

<u>Class Code</u>	<u>Class Description</u>	<u>Original Value</u>	<u>2017 ENR Adjusted Value</u>
		<u>Class Total</u>	<u>Class Total</u>
WW0363 Total	North Interceptor Junction Storage	341,675	1,108,437
WW0364 Total	Mwwtp-Bypass Outlet Structure	587,432	1,878,767
WW0365 Total	Mwwtp-Final Effluent Bypass Channel	1,910,831	2,556,960
WW0366 Total	Mwwtp-Storage Basin	20,495,220	41,370,677
WW0368 Total	Mwwtp-Interem Sludge Disposal Facility	528,794	1,197,569
WW0369 Total	Mwwtp-Reactor Deck Area-Oxygen Production	11,292,511	27,609,446
WW0370 Total	Mwwtp-Secondary Treatment Facility	63,097,122	182,908,672
WW0371 Total	Mwwtp-Grounds & Improvements	10,586,649	59,096,396
WW0372 Total	Mwwtp-Administration And Lab Building	14,623,984	25,153,488
WW0373 Total	Mwwtp-Service Building	85,103	1,541,278
WW0374 Total	Mwwtp-Chemical Storage Building (Relocated)	3,099,994	5,500,794
WW0375 Total	Mwwtp-Administration And Lab Center	28,694,859	62,030,181
WW0376 Total	Mwwtp-Maintenance Center	12,537,129	25,094,689
WW0381 Total	Mwwtp-Process Water Plant	3,234,026	12,272,739
WW0382 Total	Mwwtp-Dechlorination Station	11,538,235	22,028,939
WW0383 Total	Mwwtp-Sludge Digestion Facilities	70,847,958	117,856,407
WW0384 Total	Mwwtp-Sludge Dewatering Facilities	39,171,706	65,374,564
WW0385 Total	Mwwtp-Temp Sludge Dewatering Facility	1,862,957	2,880,493
WW0386 Total	Mwwtp-Power Generation Station	79,725,786	128,150,362
WW0387 Total	Mwwtp-Filter Plant Solids Handling Facility	20,576,772	29,023,644
WW0388 Total	Mwwtp-Odor Control At Sludge Thickener	15,478,993	31,915,390
WW0390 Total	Mwwtp-Compost Area	138,697	289,454
WW0391 Total	Oakport WW-Chlor System	591,003	1,323,337
WW0392 Total	Oakport WW-DeChlor System	925,477	1,939,001
WW0393 Total	Oakport WW-Control Bldg	1,439,408	3,236,106
WW0394 Total	Oakport WW-Emg Gen	708,623	1,593,560
WW0395 Total	Oakport WW-Drainage	1,160,534	2,609,821
WW0396 Total	Oakport WW-Washwtr Pump Sta.	121,075	272,276
WW0397 Total	Oakport WW-Storage Bldg.	436,931	982,576
WW0398 Total	Oakport WW-Lscape/Pav/Fence	1,996,609	4,473,649
WW0399 Total	Mwwtp-Scum Dewatering Station	8,971,497	13,818,545
WW0400 Total	Mwwtp-Chemical Trench	720,479	1,431,871
WW0401 Total	Mwwtp-Piping For Plant Utilities	26,513,219	51,672,518
WW0402 Total	Mwwtp-Chlorination Building	4,251,633	8,410,865
WW0450 Total	Mwwtp-Composting Facility	1,455,854	2,072,536
WW0500 Total	San Antonio Creek Wet Weather TP	13,470,868	25,135,942
WW0501 Total	San Antonio Creek Ww Dechlorination Facility	3,590,821	6,273,503
WW0502 Total	San Antonio Creek Ww Outfall Structure	2,682,144	4,996,638
WW0503 Total	San Antonio Creek Ww Gravity Sewer	540,029	1,007,849
WW0504 Total	San Antonio Creek Ww Lake Merritt Channel Crossing	1,759,796	3,284,288
WW0505 Total	San Antonio Creek Ww Outfall Subequacious Pipeline	2,278,822	4,252,941
WW0506 Total	Mwwtp-Bulk Storage Area	4,675,143	8,725,168
WW0507 Total	Mwwtp-Pre-Chlorination Facility	1,451,611	2,709,125
WW0508 Total	Mwwtp-Sodium Bisulfite Area	2,228,383	4,158,807
WW0917 Total	Mwwtp-Field Services Bldg	2,707,085	4,441,430
WWLAND Total	Wastewater Land - General	14,461,026	19,738,229
WWPEQP Total	All Wastewater Portable Equipment	14,399,671	22,500,370
Grand Total		\$921,356,762	\$2,175,612,192

Table 3
EBMUD Wastewater Capacity Fee Analysis
Summary of Grant Funded Fixed Assets (as of 1/1/18)

<u>Description</u>	<u>Original Cost</u>	<u>Year</u>	<u>2018 ENR Adjusted Value</u>
Digester	\$15,070,000	1976	\$68,244,944
Dewatering	4,435,827	1978	17,374,188
Temp. Dewatering	340,000	1978	1,331,707
Oxygen Production	4,086,325	1977	17,247,908
Secondary Reactors	16,260,000	1977	68,631,592
Secondary Clarifiers	12,040,000	1977	50,819,457
Grit Facilities	570,000	1976	2,581,262
Operations Center	760,000	1976	3,441,683
Scum Sys Equip	120,000	1976	543,424
Post Chlorination Equip	70,000	1976	316,997
Secondary Sys Channels	3,480,000	1976	15,759,284
Allocation of other SD	290,000	1976	1,313,274
Dechlorination	1,230,000	1978	4,817,648
Outfall Structure	450,000	1974	2,422,203
Operations Center	1,520,000	1976	6,883,365
Adm & Lab Bldg	1,950,000	1976	8,830,633
Maint. Bldg	780,000	1976	3,532,253
Lab Equip	320,000	1976	1,449,130
Process Water Plant	3,070,000	1977	12,958,117
Grounds & Imprvmt	540,000	1977	2,279,278
Main pump Equip	590,000	1976	2,671,833
Effl. Pump Equip	960,000	1976	4,347,389
Grit Tanks	3,130,000	1976	14,174,298
Sedim Tanks	5,560,000	1976	25,178,626
Interim Sludge	460,000	1971	3,163,555
Post Chlorination	<u>210,000</u>	<u>1967</u>	<u>2,126,006</u>
Total	\$78,290,000		\$342,440,051

Table 4
FY19 EBMUD Wastewater Capacity Fee Analysis

			Proposed FY19	Current FY18
Present Value Calculation				
Present Value (PV) of Existing Facilities (1)			\$2,175,612,192	\$2,106,980,261
PV of Grant Funded Facilities			(342,440,051)	(331,637,426)
Less Outstanding Bonds and Loans			(440,427,000)	(431,395,000)
Cash Reserve as Asset			85,033,600	76,225,600
Net Present Value			1,477,778,741	1,420,173,435
Unit Cost Calculation	Allocation (2)	Cost Allocation	Unit Cost/month	Unit Cost/month
Flow 41477000 ccf/yr	44.89%	663,374,877	191.93 \$/ccf	184.44 \$/ccf
CODF 61274000	20.59% lbs/yr	304,274,643	59.59 \$/lb	57.27 \$/lb
TSS 80632000 lbs/yr	34.52%	510,129,221	75.92 \$/lb	72.96 \$/lb
Derivation of Single Family WCF				
Flow 6.7 ccf/mo			1,285.90	1,235.78
CODF 7.90 lbs/mo			470.76	452.41
TSS 11.29 lbs/mo			857.13	823.72
Total			\$2,613.79	\$2,510.00
		Round to	\$2,610.00	
% Increase			4.0%	

Notes:

- (1) Present value calculated based on escalation by ENR
 (Source of SD-1 fixed asset list - Finance Department, Accounting Systems)
- (2) Based on 2000 Carollo study model allocations.

**5. Schedule of Rates,
Charges & Fees**

Chapter 5 – Schedules of Rates and Charges, Capacity Charges, and Other Fees Not Subject to Proposition 218, and Regulations

FY19

Water System

Schedule B – Account Establishment Charge

Schedule C – Charges for Special Services

Schedule D – Water Service Installation Charges

Schedule E – Private Fire Service Installation Charges

Schedule F – Public Fire Hydrant Installation Charges

Schedule G – Water Main Extension Charges

Schedule H – Standard Participation Charge (SPC)

Schedule J – System Capacity Charge (SCC)

Schedule N – Water Demand Mitigation Fees

Real Property Use Application Fees

Regulations Section 1 – Explanation of Terms Used In These Regulations

Regulations Section 2 – Applying for Service

Regulations Section 3 – Standard Service

Regulations Section 29 – Water Use Restrictions

Regulations Section 31 – Water Efficiency Requirements

Wastewater System

Schedule F – Wastewater Department Rates for Resource Recovery Material Treatment

Schedule G – Wastewater Department Capacity Fees

Schedule B

Account Establishment Charge



SCHEDULE B – ACCOUNT ESTABLISHMENT CHARGE

EFFECTIVE ~~07/12/17~~07/01/18

The charge for establishing a new account or the transfer of an account for a customer moving from one address to another is ~~\$54.00~~\$56.00 with the following exceptions:

- Customers in the Customer Assistance Program shall be charged ~~\$27.00~~\$28.00.
- Landlords requiring temporary water service for a period not to exceed 60 days shall be charged ~~\$26.00~~\$28.00, with the balance of the account establishment charge billed for water service that exceeds 60 days.
- There will be no transfer fee to change the name of an account when the responsible party is a landlord who has signed an intervening water service agreement.
- There will be no transfer fee to change the name of an account when the same person or entity is to remain responsible.
- Upon completion of the on-line account establishment system, the charge for establishing a new account or the transfer of an account moving from one address to another on EBMUD's website over the Internet for a single family residence customer is ~~\$38.00~~\$40.00.

Schedule C

Charges for Special Services



SCHEDULE C – CHARGES FOR SPECIAL SERVICES

EFFECTIVE ~~07/12/17~~07/01/18

A. METER TESTING

Charges for meter testing will be in accordance with the following schedule:

<u>SIZE OF METER</u>	<u>TESTING CHARGES</u>
5/8", 3/4", and 1"	\$60.00 <u>63.00</u>
1-1/2" and 2"	\$60.00 <u>63.00</u> On Site \$135.00 <u>141.00</u> Pull/Test
3" and larger	\$269.00 <u>282.00</u> On Site Actual Cost Pull and Test

B. SERVICE INTERRUPTION

The charge for shutting off water service due to non-payment of a water bill is ~~\$46.00~~48.00

The charge for restoring service after payment has been received during regular office hours is ~~\$46.00~~48.00

The charge for restoring service between 5 p.m. and 8 a.m. or on Saturday, Sunday or on a holiday is ~~\$63.00~~66.00

An additional charge to lock or plug the meter due to non-payment or unauthorized water use is

S-Lock	\$59.00 <u>61.00</u>
Plug	\$402.00 <u>414.00</u>

A service trip charge of ~~\$46.00~~48.00 shall be paid in the event of the following occurrences in the field: 1) payment collection; 2) payment extension; and 3) any additional field stops to shut off service beyond the initial service interruption, including EBMUD locking the meter if the customer self-restores water service prior to making payment. (See Section M.)

C. RETURNED PAYMENT CHARGE

A charge of ~~\$25.00~~26.00 shall be paid for each check or electronic transaction received as payment to the District that is returned unpaid from a financial institution.

D. PROCESSING FEES FOR DELINQUENT CHARGE COLLECTION THROUGH LIENS AND PROPERTY TAX BILLS ON MULTI-FAMILY RESIDENTIAL ACCOUNTS

For multi-family residential accounts, the District may place liens on parcels with unpaid charges and collect unpaid amounts on parcels' property tax bills. Multi-family residential accounts are any residential accounts where a water meter serves two or more dwelling units.



SCHEDULE C – CHARGES FOR SPECIAL SERVICES

EFFECTIVE ~~07/12/17~~07/01/18

-
- | | |
|--|---|
| 1. Lien Filing Fee | \$ 167 <u>110</u> per lien |
| 2. Lien Removal Fee | \$ 152 <u>108</u> (in Alameda County) and
\$ 144 <u>101</u> (in Contra Costa County) for first
lien removed

\$ 59 <u>50</u> (in Alameda County) and \$ 51 <u>43</u> (in
Contra Costa County) for each additional
lien removed at the same time |
| 3. Property Tax Transfer Fee Unpaid
Charges with Liens Recorded | \$ 26 <u>21</u> plus county auditor’s fee (1.7% of
collected amount for Alameda County;
\$ 6 <u>3</u> per parcel for Contra Costa County) |

E. ~~WASTEFUL~~PROHIBITED WATER USE CHARGE

A charge of \$~~46.00~~48.00 shall be paid to cover the monitoring costs incurred by the District if, after written notification, excessive or prohibited water use is not curtailed.

F. FLOW-RESTRICTOR INSTALLATION

The charge for District installation of a flow-restricting device on any service that continues excessive water use, after written notification, will be in accordance with the following schedule:

- | | |
|---|------------------------------------|
| 1. On services two-inches and smaller – | |
| 5/8” and 3/4” | \$ 115.00 <u>119.00</u> |
| 1” | \$ 115.00 <u>119.00</u> |
| 1-1/2” | \$ 248.00 <u>256.00</u> |
| 2” | \$ 248.00 <u>256.00</u> |

2. All others –

The charges for installing flow-restricting devices on water services, other than those in the above schedule, shall be the actual cost of installing the device, as determined by the District, including engineering, equipment, material, labor and related overhead expenses.

G. NOTICE OF ~~WASTEFUL~~PROHIBITED WATER USE AND FLOW-RESTRICTOR CHARGES

For the purposes of Sections E and F above, written notification shall:

- Specify the date by which excessive or prohibited water use must be curtailed to avoid further enforcement action; and



SCHEDULE C – CHARGES FOR SPECIAL SERVICES

EFFECTIVE ~~07/12/17~~07/01/18

2. Be sent by certified mail (return receipt requested) or by other written means which would be sufficient for obtaining personal service in a legal proceeding.

H. RESCINDED 12/10/96

I. BACKFLOW DEVICE ANNUAL CERTIFICATION CHARGE

Where it is probable that a pollutant, contaminant, system or plumbing hazard may be created by a water user, or where the water system is unstable and cross-connections may be installed or reinstalled, an approved backflow prevention device of the proper type is required for all premises except for conforming single-family premises at the customer's expense. See Section 26 of the District's Regulations Governing Water Service.

1. The charge for administering the Backflow Program Certification for all specified accounts (annually) ~~\$54.00~~56.00
2. The charge for District staff to conduct a *Change of Responsible Party* or *Change of Use Survey* or to respond to a commercial customer's request for a backflow/cross connection survey, an initial or follow-up backflow inspection ~~\$124.00~~128.00/hr.
3. The charge for backflow testers to be placed on the District's list of certified testers ~~\$151.00~~156.00

J. BACKFLOW DEVICE VIOLATION

For those customers where the service has been terminated for failure to meet the District's Backflow Program requirements, a charge will be made to cover the District's costs pursuant to the termination and restoration of service ~~\$479.00~~496.00

K. LATE PAYMENT PENALTY AND INTEREST

For those customers with outstanding overdue balances exceeding \$10 at billing, a charge equivalent to 1.5% of the overdue balance (minimum charge \$1) will be made to recover foregone interest on District money, and the District's costs to process overdue accounts. Customers in the Customer Assistance Program shall be exempt from the late payment penalty and interest.

L. PROCESSING FEE FOR INTERVENING WATER SERVICE AGREEMENT

The charge for the District to process an intervening water service agreement for a participating landlord in the District's automated landlord sign-on service is ~~\$55.00~~58.00

Requests to modify intervening water service agreement property account information must be submitted in writing and can be dropped off, mailed or faxed to a District business office.

The charge for each written request to modify the original intervening water service agreement by adding to or deleting property account information from the original agreement is ~~\$55.00~~58.00



SCHEDULE C – CHARGES FOR SPECIAL SERVICES

EFFECTIVE ~~07/12/17~~07/01/18

M. SERVICE TRIP CHARGE

The charge for District staff to perform special services for customers is ~~\$46.00~~48.00

The charge shall be applied for, but is not limited to the following:

1. Payment collection in the field;
2. Payment extension in the field;
3. Additional field stops beyond the initial service interruption to shut off service due to non-payment, including a field stop to lock the meter if the customer self-restores water service prior to making payment;
4. Follow-up site visits to customers who have not complied after the District's notification to correct an obstructed meter condition; and
5. Field inspections conducted at the customer's request.

N. PUBLIC HYDRANT METER ACCOUNT ESTABLISHMENT CHARGES

Customers can request a 3-inch hydrant meter that can be hooked up to a public fire hydrant to measure water use at a property site. Customers are required to: 1) provide hydrant meter readings every two months, within two weeks of the meter read due date; 2) return hydrant meter equipment within one month following a meter use period; and 3) renew the hydrant meter permit and exchange the hydrant meter equipment within 11 months from the date of issuance, if continued use is desired.

The charge to establish water service for a hydrant meter is ~~\$111.00~~115.00

The charge to renew a hydrant meter account at the end of a 12-month period is ~~\$111.00~~115.00

If a field stop is required to establish a new account, a ~~\$222~~230 site visit charge shall be paid in addition to the ~~\$111~~115 account establishment charge. (See Section O.)

O. PUBLIC HYDRANT METER ACCOUNT SITE VISIT CHARGE

The charge for a Field Services Representative to conduct a hydrant meter site visit to perform special services for customers is ~~\$222.00~~230.00

The charge shall be applied for, but is not limited to the following:

1. Reading hydrant meters for which the two-month reading was not submitted by the customer;
2. Retrieving hydrant meter equipment from a customer site;
3. Delivering hydrant meter equipment to a customer; and
4. Establishing or renewing a hydrant meter account in the field.

Schedule D

Water Service Installation Charges



SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ 07/01/18

~~e.b.~~ Branch Services (2 or more meters per lateral)

METER SIZE	# OF METERS	INSTALLED IN PAVED CONDITIONS	INSTALLED IN UNPAVED CONDITIONS
5/8" Meters	2	\$6,654 <u>\$7,534</u>	\$3,421 <u>\$3,965</u>
	3	6,925 <u>9,437</u>	3,692 <u>5,313</u>
	4	7,198 <u>9,746</u>	3,967 <u>5,623</u>
	5	8,393 <u>10,670</u>	4,559 <u>6,145</u>
	6	8,665 <u>10,978</u>	4,832 <u>6,454</u>
	7	8,938 <u>11,287</u>	5,104 <u>6,762</u>
	8	9,210 <u>11,595</u>	5,377 <u>7,071</u>
1" Meters	2	6,871 <u>9,274</u>	3,642 <u>5,152</u>
	3	7,258 <u>9,659</u>	4,027 <u>5,536</u>
	4	7,640 <u>10,041</u>	4,408 <u>5,917</u>

~~d.c.~~ Adjustment for Applicant Assisted Service Installations

Applicants requesting installation of at least 15 service laterals may choose to provide their own trenching and backfilling and be eligible to receive a refund of up to ~~\$311~~ \$517.00 per service lateral installed provided that the applicant:

- (i) pays the appropriate charges for each service as specified in sections (a) or (b) above.
- (ii) clears the construction site of obstructing materials and equipment.
- (iii) excavates a minimum of 15 service laterals ahead of District crews.
- (iv) hauls sand and select backfill to the construction site for use by District crews in supporting the service lateral and for applicant backfilling of trenches.
- (v) backfills and compacts the trenches after District crews have installed and properly secured the service lateral.
- (vi) reimburses the District for (1) unproductive crew standby due to applicant's failure to prepare the site or excavate trenches in advance; (2) District costs to repair damage done by applicant's trenching operation.

~~e. Tract Service Property Line Installation~~

~~If the customer elects not to dig service lateral trenches, but does comply with the guidelines of two services in one trench at property line, EBMUD will reimburse the customer \$156.00 for each service lateral.~~



SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ 07/01/18

~~f.d. The service lateral reimbursements referenced above do not apply to nonpotable water service. Conditions for nonpotable water service will be determined in accordance with the water service application and permit provisions in Sections 3, 4, and 30 of the Regulations Governing Water Service.~~

2. ALL OTHERS

The charge for installing all water services other than those in the above schedule shall be the actual cost of installing the service, as determined by the District, including engineering, equipment, material, labor and related overhead expenses.

B. COST OF INCREASING METER SIZE (Up to available capacity on existing lateral)

1" Tap and Lateral
\$516870 (Additional charge of ~~\$448~~600 if concrete replacement required)

1-1/2" Tap and Lateral² (~~No~~Additional charge of \$600 if concrete replacement required)

<u>Up</u>	<u>to</u>	<u>1-1/2"</u>	<u>\$870</u>
5/8"	to	3/4"	\$600
5/8"	to	1"	600
3/4"	to	1"	600
5/8"	to	1-1/2"	761
3/4"	to	1-1/2"	761
1"	to	1-1/2"	761

2" Tap and Lateral² (~~No~~Additional charge of \$600 if concrete replacement required)

<u>Up</u>	<u>to</u>	<u>2"</u>	<u>\$1,172</u>
5/8"	to	3/4"	\$600
5/8"	to	1"	600
3/4"	to	1"	600
5/8"	to	1-1/2"	1,127
1"	to	1-1/2"	1,127
*5/8"	to	2"	1,127
*3/4"	to	2"	1,127
*1"	to	2"	1,127
1-1/2"	to	2"	1,127

² Additional charge of \$524 if concrete replacement required.



SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ 07/01/18

4" Tap and Lateral

(Additional charge of \$~~448~~600 if concrete replacement required)

<u>Up</u>	<u>to</u>	<u>2"</u>	<u>\$1,172</u>
5/8"	to	3/4"	\$600
5/8"	to	1"	600
3/4"	to	1"	600
5/8"	to	1-1/2"	1,127
3/4"	to	1-1/2"	1,127
1"	to	1-1/2"	1,127
5/8"	to	2"	1,127
3/4"	to	2"	1,127
1"	to	2"	1,127
1-1/2"	to	2"	1,127

4" Tap and Lateral

(Additional charge of \$~~557~~600 if concrete replacement required)

<u>Up</u>	<u>to</u>	<u>4"</u>	<u>\$6,221</u>
5/8"	to	3"	\$7,894
3/4"	to	3"	7,894
1"	to	3"	7,894
1-1/2"	to	3"	7,894
2"	to	3"	7,894
5/8"	to	4"	7,894
3/4"	to	4"	7,894
1"	to	4"	7,894
1-1/2"	to	4"	8,790
2"	to	4"	8,790
3"	to	4"	8,790

C. COST OF REDUCING SERVICEMETER SIZE (Additional charge of \$~~557~~600 if concrete replacement required)

<u>1", 1-1/2" and</u>		<u>\$853</u>	
<u>2" Laterals</u>	<u>to</u>	<u>smaller meter</u>	
<u>3" and 4"</u>		<u>2,503</u>	
<u>Laterals</u>	<u>to</u>	<u>smaller meter</u>	
1"	to	3/4" or 5/8"	\$370
1-1/2"	to	1", 3/4" or 5/8"	511
2"	to	1-1/2"	1,418
2"	to	1", 3/4" or 5/8"	511
3"	to	2"	2,284
3"	to	1-1/2"	2,258
3"	to	1", 3/4" or 5/8"	1,937
4"	to	3"	7,714
4"	to	2"	2,252
4"	to	1-1/2"	2,252
4"	to	1", 3/4" or 5/8"	1,937



SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ 07/01/18

D. RELOCATING AN EXISTING SERVICE

1. To relocate an existing service perpendicular to the curb line or a distance not exceeding five feet parallel to the curb line, a charge will be ~~made equal to 20% of the Installation Charge for the corresponding service size~~ \$2,292.
2. To relocate an existing service a distance exceeding five feet parallel to the curb line, a charge will be made in accordance with Section A – Installing A Service ~~the following schedule~~ plus the cost of eliminating old service connection:

~~a. FOUR INCHES AND SMALLER~~

SIZE	RELOCATION CHARGE
5/8", 3/4" & 1"	\$6,193
1-1/2"	6,379
2"	7,304
3"	23,892
4"	25,885

~~b. SIX INCHES AND LARGER~~

~~Total actual cost of a new service installation, plus cost of eliminating old service connection, less salvage value of materials recovered.~~

E. RESETTING OR REPLACING A METER

There will be a charge equivalent to 5% of the water service installation charge for resetting a meter on an existing service connection.

There will be a charge equivalent to 5% of the water service installation charge for replacing a meter when applicants lose or damage meters when constructing new developments.



SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ 07/01/18

F. CONVERSION OF INDIVIDUAL SERVICE TO BRANCH SERVICE

(Multi-metering, when feasible)

Branch Conversion

\$2,671 for two meter conversion, \$381 for each additional meter

(Additional charge of \$600 if concrete replacement is required)

1" tap and lateral to 2-5/8" meter manifold	\$507	(Additional charge of \$448 if concrete replacement required)
1.5" tap and lateral to 3 or 4-5/8" meters	\$1,012	(Additional charge of \$597 if concrete replacement required)
1.5" tap and lateral to 2-1" meter manifold	\$586	(Additional charge of \$597 if concrete replacement required)
2" tap and lateral to 5/8" meter manifold		
5 and 6 meters	\$1,553	(Additional charge of \$597 if concrete replacement required)
7 and 8 meters	\$1,985	(Additional charge of \$748 if concrete replacement required)
4" tap and lateral to a 5/8" meter manifold	\$1,590 plus \$252 per meter requested	(Additional charge of \$748 if concrete replacement required)

G. SERVICE ELIMINATIONS

3/4" to 2"	\$1,463 <u>\$1,739</u>	(Additional charge of \$448 <u>\$600</u> if concrete replacement required)
3" to 12"	\$3,748 <u>\$3,879</u>	(Additional charge of \$597 <u>\$600</u> if concrete replacement required)

H. INSTALLATION OR OTHER WORK UNDER UNUSUAL CONDITIONS

The above charges apply to installation charges for water services four inches and smaller except where there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the charge will be based on the District's actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.

Schedule E

Private Fire Service Installation Charges



SCHEDULE E – PRIVATE FIRE SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ 07/01/18

A. INSTALLING A PRIVATE FIRE SERVICE

The charge for installing a private fire service will be in accordance with the following schedule:

SIZE	INSTALLED IN PAVED CONDITIONS	INSTALLED IN UNPAVED CONDITIONS
1-1/2"	\$6,379	\$3,148
2"	7,301	3,468
4"	19,554 <u>\$22,536</u>	17,554 <u>\$17,844</u>
6"	20,830 <u>23,786</u>	18,830 <u>19,043</u>
8"	28,893 <u>29,699</u>	26,893 <u>19,043</u>

Cost to install 2" and smaller is shown in Schedule D – Water Service Installation Charges, Section A.1 – Installing A Service, Four Inches and Smaller.

Cost to install 10" and larger will be calculated on an actual cost ~~case-by-case~~ basis.

~~The charges for four-inch and larger includes cost of detector check meter, meter box, connection to existing mains and fittings.~~

B. INSTALLATION UNDER UNUSUAL CONDITIONS

The above charges apply to all installation charges for private fire services except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the charge will be based on the District's actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.

Schedule F

Public Fire Hydrant Installation Charges



SCHEDULE F – PUBLIC FIRE HYDRANT INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ 07/01/18

The following charges will be made for the installation, removal or relocation of a fire hydrant.

A. HYDRANT INSTALLATION BY THE DISTRICT

The charge for installation of a fire hydrant by the District on an existing main or on/with new mains is ~~\$13,796~~ 19,034 in pavement and \$12,722 in dirt.

~~For hydrants installed by the District on/with new mains being installed by the District see Schedule G, Sections C.2 and C.3.~~ For hydrants installed by applicant on/with new mains installed by the Applicant see Section B below.

B. HYDRANT INSTALLATIONS BY APPLICANT ON APPLICANT-INSTALLED MAIN EXTENSIONS

- 1. Basic charge for materials and handling, ~~engineering and inspection services~~ for a 6-inch fire hydrant ~~\$3,160~~ 3,731.00
- 2. Material charge for services laterals ~~\$16~~ 21.00 per foot

NOTE: Applicants will not be permitted to install a fire hydrant on an existing main.

C. HYDRANT REMOVAL

- 1. The charge to remove a hydrant located in concrete sidewalk ~~\$3,303~~ 3,879.00
- 2. The charge to remove a hydrant located in dirt ~~\$2,938~~ 2,395.00

~~D. INSTALLATION OF A FIRE HYDRANT AT A LOCATION WHERE THERE IS EXISTING FIRE HYDRANT COVERAGE~~

~~If a fire hydrant is ordered installed at or near a location where there is existing fire hydrant coverage, as a requirement precedent to installing the new fire hydrant, the District reserves the right to remove the existing fire hydrant and levy the charge for removal (Section C).~~

~~E. RELOCATION OF A FIRE HYDRANT~~

The charge for the relocation of a hydrant will be the charge for the hydrant removal (Section C) plus the charge for the installation of a new hydrant (Section A). ~~No credit will be given for salvaged material unless the hydrant body is of the current design and can be reused, in which case a credit of \$475 will be allowed.~~

~~F. SETBACK/OFFSET OF A FIRE HYDRANT~~

Where the relocation of a fire hydrant does not require a new connection to the main, the charge is ~~\$8,794~~ 9,303. There is an additional charge of ~~\$584~~ 600 for concrete replacement.



SCHEDULE F – PUBLIC FIRE HYDRANT INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~07/01/18

GE.REPLACEMENT OF A HYDRANT BODY

To replace an existing hydrant with a MODEL-64 hydrant body, or equivalent, on a wet barrel, above ground shutoff type hydrant, ~~the following charges will be made:~~the replacement charge is \$1,761.

- ~~1. If the existing hydrant body is a wet barrel, aboveground shutoff type, the replacement charge is~~ _____ ~~\$1,518.00~~
- ~~2. If the existing hydrant body is a dry barrel, underground shutoff type, the replacement charge is~~ _____ ~~2,366.00~~

HG.INSTALLATION UNDER UNUSUAL CONDITIONS

The above charges apply to all installation charges for fire hydrant installations except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the charge will be based on the District's actual cost of all engineering, material, equipment, labor and related expenses incidental to the installation.

Schedule G

Water Main Extension Charges



SCHEDULE G – WATER MAIN EXTENSION CHARGES

EFFECTIVE ~~07/01/14~~ 07/01/18

A. DISTRICT-INSTALLED MAINS

The charge for District-installed main extensions up to 1,000 feet shall be based on the standard charges as specified in ~~Sections B and C~~ below.

~~B. DISTRICT-INSTALLED TWO-INCH MAINS~~

~~1. The~~ Charge for engineering, inspection, pipeline materials and appurtenances, and District installation of the required mains by the District ~~two-inch mains~~ in dirt streets and in paved streets, excluding fire hydrants and ~~any charges for~~ water service connections (which are covered by Schedules D, E, and F) consists of :

~~a. 1.~~ Basic installation charge of ~~\$4,610~~ \$4,019.00
plus,

~~2. Linear foot charge of:~~

PVC pipe in dirt streets	\$112.00 per foot
PVC pipe in paved streets	183.00 per foot
Copper pipe in dirt streets	130.00 per foot
Copper pipe in paved streets	201.00 per foot

~~C. DISTRICT-INSTALLED SIX-INCH AND EIGHT-INCH MAINS~~

~~The charge for District installation of six-inch and eight-inch steel and PVC mains up to 1,000 feet, excluding any charges for water service connections, consists of:~~

~~1. Basic installation charge of~~ ~~\$4,610.00~~
~~plus,~~

~~2. Basic charge per fire hydrant installed:~~

In dirt	\$9,656.00
In pavement	11,038.00

~~plus,~~

~~3. Linear foot charge, for combined length of main extension and fire hydrant lateral of 0- to 1,000 LF~~ feet:

~~In dirt streets~~ ~~or roads~~

2-inch PVC pipe	\$112 <u>141.00</u> per foot
2-inch Copper pipe	130 <u>164.00</u> per foot
6-inch/8-inch PVC or HDPE pipe	167 <u>217.00</u> per foot
6-inch/8-inch Steel pipe	202 <u>255.00</u> per foot
12-inch HDPE pipe	279.00 <u>per foot</u>
12-inch Steel pipe	324.00 <u>per foot</u>

~~In paved streets~~ ~~or roads~~

2-inch PVC pipe	\$183 <u>231.00</u> per foot
2-inch Copper pipe	201 <u>254.00</u> per foot



SCHEDULE G – WATER MAIN EXTENSION CHARGES

EFFECTIVE ~~07/01/14~~07/01/18

<u>6-inch/8-inch PVC or HDPE pipe</u>	<u>249311.00 per foot</u>
<u>6-inch/8-inch Steel pipe</u>	<u>277344.00 per foot</u>
<u>12-inch HDPE pipe</u>	<u>369.00 per foot</u>
<u>12-inch Steel pipe</u>	<u>414.00 per foot</u>

~~b.~~ **D.** The above charges apply to all District-installed mains except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including hydraulic analysis, property rights evaluation, site conditions or contaminated soil. In such cases, the additional charge will be based on the District’s actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.

EB. APPLICANT-INSTALLED MAINS

The ~~following charges apply to for a~~ applicant-installed water-main extensions ~~under normal conditions as defined in the Regulations.~~ over 1,000 feet shall be based on the following standard charges:

1. Charge for engineering, inspection, and certain pipeline materials, designated below for the installation of the required water mains by the applicant, excluding fire hydrants and water service connections (which are covered by Schedules D, E, and F) consists of:

a. Basic installation charge of \$4,184,019.00 plus,

Linear foot charge of:

6-inch/ 8-inch diameter pipe	<u>\$341.00 per foot</u>
8-inch diameter pipe	34.00 per foot
12-inch and larger diameter pipe	<u>See 7-C, #347.00 per foot</u>
<u>16-inch and larger diameter pipe</u>	<u>See B, 3 below</u>

b. The charge to the applicant for District-supplied pipe and fittings (which include valves, valve pot covers, blowoffs, and minor appurtenances as identified by District-furnished drawings and specifications) will be the District’s cost for these materials, ~~at the time of delivery to the applicant, plus~~ including tax and shipping.

c. The above charges apply to all ~~a~~ applicant-installed mains except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the additional charge will be based on the District’s actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.

In all cases the District will supply valves, valve pot covers, blowoffs, and minor appurtenances as identified by District-furnished drawings and specifications.



SCHEDULE G – WATER MAIN EXTENSION CHARGES

EFFECTIVE ~~07/01/14~~ 07/01/18

2. Credits (where applicable) when pipe to be installed by the applicant is required by the District to be larger than the pipe size needed to serve the applicant or when applicant installs District improvements in conjunction with applicant-installed main extensions will be based on a District engineering cost estimate.

3. Charges ~~and Credits~~ for ~~Steel~~-Pipe ~~Other~~ Greater than ~~Eight~~ 12-Inches

Charges for Applicant-installed mains ~~other~~ greater than ~~eight~~ 12-inches, ~~credits (where applicable) to applicant for mains other than eight-inch, or applicant-installed District improvements in conjunction with applicant-installed main extensions~~ will be based on a District engineering cost estimate.

Schedule H

Standard Participation Charge



SCHEDULE H – STANDARD PARTICIPATION CHARGE (SPC)

EFFECTIVE ~~08/14/17~~ 08/13/18

A. The Standard Participation Charge for each standard service installed shall be:

Meter Size	Gravity Zone ¹	Pumped Zone ²
5/8" and 3/4"	\$8,560 <u>\$8,780</u>	\$10,620 <u>\$10,910</u>
1"	21,400 <u>21,960</u>	26,550 <u>27,270</u>
1-1/2"	42,800 <u>43,900</u>	53,100 <u>54,500</u>
2"	68,500 <u>70,300</u>	84,900 <u>87,300</u>
3"	136,900 <u>140,500</u>	169,900 <u>174,500</u>
4"	214,000 <u>219,600</u>	265,500 <u>272,700</u>

The Standard Participation Charge for each meter larger than four inches shall be determined on a case-by-case basis by the District, considering such factors as the projected demand which the service would impose on the District system, the maximum intermittent flow rate of the meter compared to a 5/8" meter, and whether the service is solely domestic or is combined with a fire service. In no event shall the standard participation charge for a meter larger than four inches be less than ~~\$214,000~~ \$219,600 in gravity zones or ~~\$265,500~~ \$272,700 in pumped zones.

¹This charge covers general water main oversizing and future water supply.

²This charge covers major facilities capacity, water main oversizing and future water supply.

Schedule J
System Capacity Charge



SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/14/17~~ 08/13/18

A. SCC FOR STANDARD SERVICE¹

1. Non-Residential Service Connections (dollars per connection)

METER SIZE (INCHES)	REGION					
	1	2	3	3	3	3
5/8	\$25,040	<u>\$25,850</u>	\$45,080	<u>\$46,590</u>	\$41,780	<u>\$43,140</u>
3/4	37,560	<u>38,780</u>	67,620	<u>69,890</u>	62,670	<u>64,710</u>
1	62,730	<u>64,760</u>	112,930	<u>116,720</u>	104,660	<u>108,070</u>
1-1/2	125,460	<u>129,520</u>	225,860	<u>233,440</u>	209,320	<u>216,140</u>

For service connections with larger meters see Section 3.

2. Single Family Service Connections (SCC)² (dollars per connection)

METER SIZE (INCHES)	REGION ³					
	1	2	3	3	3	3
3/4	\$17,530	<u>\$18,100</u>	\$30,340	<u>\$31,350</u>	\$38,770	<u>\$40,040</u>
1	29,280	<u>30,230</u>	50,670	<u>52,350</u>	64,750	<u>66,870</u>
1-1/2	58,560	<u>60,460</u>	101,340	<u>104,700</u>	129,500	<u>133,740</u>

For service connections with larger meters see Section 3 below.

¹This charge covers the cost of System-wide Facilities Buy-in, Regional Facilities Buy-in and Future Water Supply.

²The SCC charged to the applicant will be based on the water meter size required to meet the indoor needs (excluding private fire service needs) and outdoor watering needs of the premises as determined solely by the District based on the plumbing code, the District's review, and water industry standards. The meter(s) that is installed may be larger than the meter size charged in the SCC fee if the service is combined with a private fire service or if a separate irrigation meter is required (See Sections D – Combined Standard and Fire Service and I – Required Separate Irrigation Meter for Single Family Premises).

³REGION GENERAL DESCRIPTION

1	Central Area (gravity zones West-of-Hills) El Sobrante and North (pumped zones)
2	South of El Sobrante to vicinity of Highway 24 (pumped zone) South from vicinity of Highway 24 (pumped zones) Castro Valley Area (pumped zones) North Oakland Hill Area (pumped zones, formerly 4A)
3	Orinda-Moraga-Lafayette Area (pumped zones) San Ramon Valley and Walnut Creek (pumped and gravity zones)



SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/14/17~~ 08/13/18

3. SCC for Larger Meters

The SCC for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the same unit charge and criteria as apply to the SCC for smaller meters. The SCC will be calculated based on the unit charges for each of the four components listed below:

Component	Unit Charge (\$/100 gpd)
Post-2000 (Add'l Regions 3C & 3D only)	SCC Region Specific
Regional Facilities Buy-in	SCC Region Specific
System-wide Facilities Buy-in	\$2,109 <u>\$2,185</u>
Future Water Supply ⁴	2,046 <u>2,099</u>

The unit charges for the components that are specific to a SCC Region are:

Region	Post-2000 Component	Regional Facilities Buy-In Component
1	n/a	\$2,104 <u>\$2,179</u>
2	n/a	4,272 <u>4,424</u>
3	n/a	2,529 <u>2,619</u>
3C	\$6,960 <u>\$7,099</u>	1,897 <u>1,965</u>
3D	6,960 <u>7,099</u>	1,897 <u>1,965</u>

In no instance will the SCC for a meter larger than 1-1/2 inches be less than the 1-1/2 inch price from the appropriate Section 1 or 2, above.

The SCC will be determined by multiplying the sum of the unit charge of the four components by the water use information furnished by the applicant, rounded to three significant places.

If the District has determined, based on water use information furnished, that a meter larger than 1-1/2 inches is appropriate, the SCC calculated pursuant to this subdivision shall apply irrespective of the arrangement of water metering or meter size at the premises.

⁴The Future Water Supply component for Region 3C is based on 1993 agreement (see Section B1).



SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/14/17~~ 08/13/18

4. SCC for Standard Service to Multi-Family Premises

The System Capacity Charge for water service at multi-family premises shall be as listed below. For purposes of this Schedule J, “multi-family premises” shall mean premises with two or more attached or separate residential dwelling units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service.

Multi-Family Premises						
Dollars per Dwelling Unit (DU)						
REGION ⁵						
	1		2		3	
For each Dwelling Unit	\$10,200	<u>\$10,530</u>	\$14,160	<u>\$14,630</u>	\$13,300	<u>\$13,740</u>

The above SCC shall apply regardless of the arrangement of water metering or meter size at the premises; however, the District may limit the size and number of service connections to a combined capacity appropriate to the anticipated water use at the premises. No additional SCC shall be applicable for separate meters installed to provide irrigation for landscaping on the premises in the immediate area contiguous to the dwelling unit structures, provided such landscaped area is to be used exclusively by the residents. All other rates and charges shall be based on actual number and size of meters and does not apply to the requirements listed below.

An SCC shall be applicable for separate meters installed to serve other water uses in the vicinity of the multi-family premises, such as irrigation of open space areas, parks, roadway medians, golf courses, community clubhouse and recreational facilities, and areas designated for public use. The SCC shall be based on meter size as provided under A.1 above. If these other water uses are included in the water service connection to the multi-family premises, the District shall, for purposes of determining the applicable SCC, determine the equivalent meter size for these uses based on plumbing code and water industry standards, as if there were a separate service connection.

⁵Same regions as described in A.2.



SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/14/17~~ 08/13/18

B. SEPARATE SCC FOR STANDARD SERVICE FOR ADDITIONAL REGIONS⁶

The System Capacity Charge for non-residential and single family residential water service at premises other than multi-family premises shall be as follows (dollars per connection):

1. Non-residential water service at premises other than multi-family premises shall be as follows (dollars per connections)

METER SIZE (INCHES)	ADDITIONAL REGION ⁷	
	3C ⁸	3-D
5/8	n/a	\$100,850 <u>\$103,450</u>
3/4	n/a	151,280 <u>155,180</u>
1	n/a	252,640 <u>259,150</u>
1-1/2	n/a	505,280 <u>518,300</u>

For service connections with larger meters see Section 3 below.

2. Single-family service connections shall be as follows (dollars per connections)

METER SIZE (INCHES)	ADDITIONAL REGION ⁷	
	3C ⁸	3-D
3/4	\$89,640 <u>\$91,930</u>	\$100,850 <u>\$103,450</u>
1	149,700 <u>153,520</u>	168,420 <u>172,760</u>
1-1/2	299,400 <u>307,040</u>	336,840 <u>345,520</u>

For service connections with larger meters see Section 3 below.

⁶This charge covers the cost of System-wide Facilities Buy-In, Regional Facilities Buy-In and Future Water Supply. The Additional Regions are low-density, residential in nature. It is not anticipated that meters larger than 3/4-inch (excluding fire flow requirements) will be installed in these Regions.

⁷ ADDITIONAL REGION	GENERAL DESCRIPTION
3-C	South of Norris Canyon Road (pumped zones)
3-D	South of Norris Canyon Road outside Wiedemann Ranch (pumped zone)

⁸The Future Water Supply component of the SCC for Region 3C is set by the July 20, 1993 Wiedemann Agreement, indexed to the U.S. City Average of the Consumer Price Index and used by EBMUD to fund conservation programs. The total Future Water Supply component of the SCC for the common areas in Region 3C shall be paid as a condition for the issuance of the first water meter for the common area. The SCC for non-residential services (e.g., common area irrigation) shall be uniquely calculated in accordance with the Wiedemann Agreement.



SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/14/17~~ 08/13/18

3. SCC for Larger Meters

The SCC for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the same cost components and criteria as apply to the SCC for smaller meters. (See Section A.3)

4. Separate SCC for Standard Service to Multi-Family Premises

The SCC for water service at multi-family premises shall be as listed below. For purposes of this Schedule J, “multi-family premises” shall mean premises with two or more attached or separate residential dwelling units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service.

Multi-Family Premises Dollars per Dwelling Unit				
ADDITIONAL REGIONS ⁹				
3-C				
3-D				
For each Dwelling Unit	\$34,580	<u>\$35,470</u>	\$35,390	<u>\$36,310</u>

The above SCC shall apply regardless of the arrangement of water metering or meter size at the premises; however, the District may limit the size and number of service connections to a combined capacity appropriate to the anticipated water use at the premises. No additional SCC shall be applicable for separate meters installed to provide irrigation for landscaping on the premises in the immediate area contiguous to the dwelling unit structures, provided such landscaped area is to be used exclusively by the residents. All other rates and charges shall be based on actual number and size of meters and do not apply to the requirements listed below.

An SCC shall be applicable for separate meters installed to serve other water uses in the vicinity of the multi-family premises, such as irrigation of open space areas, parks, roadway medians, golf courses, community clubhouse and recreational facilities, and areas designated for public use. The SCC shall be based on meter size as provided under B.1 above. If these other water uses are included in the water service connection to the multi-family premises, the District shall, for purposes of determining the applicable SCC, determine the equivalent meter size for these uses based on plumbing code and water industry standards, as if there were a separate service connection.

⁹Same regions as described in B.1.



SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/14/17~~ 08/13/18

C. LOW-PRESSURE SERVICE

Where a larger meter is installed because of low-pressure conditions, the applicable System Capacity Charge shall be determined on the basis of the size of the meter which would be required for a standard service as determined by the District based on plumbing code and water industry standards. All other rates and charges shall be based on actual meter size.

D. COMBINATION STANDARD AND FIRE SERVICE

Where a meter is installed to provide both standard service and a supply to a private fire protection system, at other than multi-family premises, the applicable System Capacity Charge shall be based on the meter size required for standard service exclusive of the capacity for supplying the fire protection system as determined by the District based on plumbing code, fire protection code and water industry standards. The installation charges shown in Schedule D and all other rates and charges pertaining to the service shall be based on the actual size of the meter that is installed.

E. FIRE SERVICES AND STANDBY SERVICES

For fire services and standby services (additional service connections for security of supply), there shall be no System Capacity Charges.

F. ADDITIONAL WATER USE ON PREMISES RECEIVING SERVICE

The System Capacity Charge applicable to enlargement of an existing service at other than multi-family premises shall be based on the difference in SCC for the new service size and the existing service size.

If additional dwelling units are constructed on premises subsequent to the installation of service and payment of an SCC under B.1, then the SCC applicable to each additional dwelling unit shall be immediately due and payable.

G. CREDIT FOR EXISTING SERVICES

Where one or more new services will replace one or more existing or prior services to a premises where an SCC was paid to initiate the water service, a credit will be given toward the new SCC based on the customer classification, meter size or water use information that was used to calculate the initial SCC payment (see Section A – SCC for Standard Service). For instances where the existing or prior services were installed prior to 1983 and no SCC was paid, the SCC credit for meter sizes under 2" will be based on Sections A.1 and A.2 – SCC for Standard Service. For existing or prior services with meter sizes 2" and greater where no SCC was paid, the annual average of the past ten years of water consumption will be used to determine the SCC credit, but in no instance will the credit be less than that of a 1.5" meter size for the customer classification listed in Sections A.1 and A.2 – SCC for Standard Service. No SCC credit will be given unless prior service to the premises is verified. If the SCC is paid with the service connection to be completed by meter installation at a later date, and existing service(s) are to remain in service until that time, the applicable credit for the existing service(s) will be in the form of a refund when the existing services are removed.



SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/14/17~~ 08/13/18

The SCC credit cannot be applied to a standby meter, fire service meter, or in the case of a combination standard and fire service meter, the portion of the meter oversized for the private fire protection system. Where the initial SCC payment was made under Schedule J Section I – Required Separate Irrigation Meter for Single Family Premises, the SCC credit cannot be applied to the separate irrigation meter without a SCC credit on the residential meter. The SCC credit for an existing service can only be applied to the premises where the existing service is located. “Premises” is defined in Section 1 of the District’s Regulations Governing Water Service.

For a common area meters installed under the July 20, 1993 Wiedemann Agreement, credit toward a new SCC for these meters will be based on the actual SCC payment for each meter installed, not based on the size of the existing meter.

H. TEMPORARY CONSTRUCTION SERVICE

A System Capacity Charge paid on a temporary construction service will be refunded if said service is removed within a 1-year period after installation.

I. REQUIRED SEPARATE IRRIGATION METER FOR SINGLE FAMILY PREMISES

If an irrigation meter is required for a single-family premises because the landscape exceeds the threshold for a dedicated irrigation meter in Section 31 of the Regulations, two meters will be installed – one for the indoor and private fire service (if applicable) needs of the building and a separate meter dedicated for irrigation. One single-family premises SCC shall be applicable based on the hydraulic capacity needed to serve the irrigation and indoor needs. The hydraulic capacity of the installed meter or meters will be equal to or exceed the hydraulic of the meter size that was charged in the SCC fee. The installation charges shown in Schedule D and all other rates and charges pertaining to the service(s) based on the actual size of the meter(s) that are installed shall apply.

J. NONPOTABLE WATER SERVICE

1. Nonpotable Water Service Connections (dollars per connection)

METER SIZE (INCHES)	REGION					
	1		2		3	
5/8	\$8,180	<u>\$8,400</u>	\$10,950	<u>\$11,230</u>	\$12,790	<u>\$13,120</u>
3/4	12,280	<u>12,590</u>	16,420	<u>16,840</u>	19,180	<u>19,680</u>
1	20,500	<u>21,030</u>	27,420	<u>28,130</u>	32,030	<u>32,860</u>
1-1/2	41,000	<u>42,060</u>	54,840	<u>56,260</u>	64,070	<u>65,720</u>

All SCC for nonpotable water service connections with meters larger than 1-1/2 inches shall be determined by applying the Future Water Supply Component unit charge to the defined projected water demand approved by the District. The SCC will not be less than the 1-1/2



SCHEDULE J – SYSTEM CAPACITY CHARGE (SCC)

EFFECTIVE ~~08/14/17~~ 08/13/18

inch meter charge from Section J.1 above.

K. DUAL STANDARD SERVICES

An SCC shall be applicable for separate meters installed to provide dual (potable and nonpotable) standard service, based on the meter size(s) for each service.

L. ADJUSTMENT OF SCC FOR WATER-CONSERVING LANDSCAPING ON PUBLICLY OWNED PROPERTY

To further encourage water conservation, the SCC for a water service connection exclusively for irrigation of landscaping on property owned by a public agency may be reduced or not required based on long-term water service needs after an initial planting establishment period of not more than three years (the “initial period”); provided that (1) the landscape plan incorporates drought-tolerant and other low-water-use planting materials on a major part of the landscaped area, and (2) the long-term water need would result in replacement of the initial water meter with a smaller meter or water service would be discontinued and removed at the end of the initial period, as solely determined by the District.

A public agency applying for water service under such conditions shall submit a written request to the District prior to the time of payment of the SCC. The request shall set forth in detail the facts supporting an adjustment of the SCC, shall include information and plans clearly describing the planting materials and irrigation system, and shall include data and calculations clearly demonstrating the estimated initial and long-term water needs.

If the District determines that the SCC can be based on a smaller meter or discontinuation of service after the initial period, the public agency shall enter into a water service agreement which provided for (1) payment of the reduced SCC prior to installation of service; (2) verification of the long-term need at the end of the period; and (3) payment of the additional SCC required if the initial meter is not to be replaced, or the replacement meter is larger than initially determined, or water service is not discontinued and removed. If additional SCC payment is required, it shall be based on the charges in effect at the time of initial SCC payment, and shall be due and payable within 30 days of written notice from the District. The agreement shall be binding upon all subsequent owners of the property and shall be recorded.

Installation charges for the service connection shall be based on the meter size initially installed.

The above-mentioned SCC adjustments do not apply to nonpotable water service accounts.

Schedule N

Water Demand Mitigation Fees



SCHEDULE N – WATER DEMAND MITIGATION FEES

EFFECTIVE ~~08/14/17~~ 08/13/18

The Water Demand Mitigation Fee funds District conservation programs that are intended to achieve water savings that offset water demand from development within the territory or development where the fees are collected. The Water Demand Mitigation Fee is payable at the time application for service is made or prior to release of the distribution system pipelines and related appurtenances when the installation of water main extensions are required.

A. WATER DEMAND MITIGATION FEES FOR “THE MEADOWS” TERRITORY

For service connections within “The Meadows” territory¹ payment of a Water Demand Mitigation Fee shall be required in addition to all other applicable fees and charges, including the applicable System Capacity Charge (SCC).

1. Non-Residential Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE MEADOWS TERRITORY
5/8	\$13,940 <u>\$14,300</u>
3/4	20,070 <u>20,590</u>
1	31,220 <u>32,030</u>
1-1/2	60,210 <u>61,770</u>

2. Single Family Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE MEADOWS TERRITORY
5/8	\$13,650 <u>\$14,000</u>
3/4	20,070 <u>20,590</u>
1	31,220 <u>32,030</u>
1-1/2	60,210 <u>61,770</u>

3. The Water Demand Mitigation Fee for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the applicable SCC Future Water Supply component and multiplier (1.09) established by the Board of Directors for smaller meters.

¹As defined in Contra Costa Local Agency Formation Commission Resolution No. 96-33, adopted August 13, 1997.



SCHEDULE N – WATER DEMAND MITIGATION FEES

EFFECTIVE ~~08/14/17~~ 08/13/18

- For phased developments within The Meadows territory, the Water Demand Mitigation Fee is payable for all connections within the phase prior to release of the distribution system pipelines and related appurtenances.

B. WATER DEMAND MITIGATION FEES FOR “THE WENDT RANCH” TERRITORY

For service connections within “The Wendt Ranch” territory² payment of a Water Demand Mitigation Fee shall be required in addition to all other applicable fees and charges, including the applicable System Capacity Charge (SCC).

- Non-Residential Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE WENDT RANCH TERRITORY
5/8	\$17,900 <u>\$18,370</u>
3/4	25,780 <u>26,450</u>
1	40,100 <u>41,140</u>
1-1/2	77,340 <u>79,340</u>

- Single Family Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE WENDT RANCH TERRITORY
5/8	\$17,530 <u>\$17,980</u>
3/4	25,780 <u>26,450</u>
1	40,100 <u>41,140</u>
1-1/2	77,340 <u>79,340</u>

- The Water Demand Mitigation Fee for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the applicable SCC Future Water Supply component and multiplier (1.40) established by the Board of Directors for smaller meters.
- For phased developments within The Wendt Ranch territory, the Water Demand Mitigation Fee is payable for all connections within the phase prior to release of the distribution system pipelines and related appurtenances.

²As defined in Contra Costa Local Agency Formation Commission Resolution 97-5, adopted March 12, 1997.



SCHEDULE N – WATER DEMAND MITIGATION FEES

EFFECTIVE ~~08/14/17~~ 08/13/18

C. WATER USE OFFSET FEES FOR THE WIEDEMANN RANCH DEVELOPMENT³

For service connections within “The Wiedemann Ranch Development”, payment of a Water Use Offset Fee shall be required in addition to all other applicable fees and charges, including the System Capacity Charge (SCC).⁴

1. Common Area Offset Fee

The total Water Use Offset Fee for common areas in The Wiedemann Ranch Development is ~~\$69,468~~ \$70,906, and payable as a condition of issuance of the first meter for the common area.⁵

2. Single Family Service Connections

The Water Use Offset Fee for each residential lot in The Wiedemann Ranch Development is ~~\$6,934~~ \$7,707, which amount shall be indexed using the same index as for the common area offset fee.

D. ADDITIONAL WATER USE OFFSET FEES FOR THE WIEDEMANN RANCH DEVELOPMENT³

For water service within the Wiedemann Ranch Development, payment of Additional Water Use Offset Fees shall be required in the event the annual water budget⁶ is exceeded.

1. The Additional Water Use Offset Fee shall be determined by the number of gallons of water used during the average of the two consecutive years in excess of the annual water budget times the per gallon fee of ~~\$14.97~~ \$15.28.⁷

³The Wiedemann Ranch Development, SCC Region 3A, a 439 acre development in Contra Costa County, is described with particularity in Exhibit A to the July 20, 1993 Agreement Between EBMUD and HCV & Associates, Ltd., Wiedemann Ranch, Inc. and Sue Christensen (“Wiedemann Agreement”).

⁴The Wiedemann Agreement specifies the amount and other terms related to the Future Water Supply Component of the SCC for the Wiedemann Ranch Development.

⁵The Water Use Offset Fee shall be indexed to the U.S. City Average of the Consumer Price Index issued by the U.S. Department of Labor each calendar year or portion thereof from the July 20, 1993 date of the Wiedemann Agreement to the date of payment of the offset fee.

⁶The Wiedemann Agreement specifies the formula for calculating the annual water budget and the specific methodology for calculating and collecting the additional water use offset fee.

⁷The Wiedemann Agreement specifies the terms related to the Additional Water Use Offset Fee. The Additional Water Use Offset Fee shall be indexed to the U.S. City Average of the consumer Price Index issued by the U.S. Department of Labor for each calendar year or portion thereof from the July 20, 1993 date of the Wiedemann Agreement to the date of payment of the additional water use offset fee.



SCHEDULE N – WATER DEMAND MITIGATION FEES

EFFECTIVE ~~08/14/17~~ 08/13/18

E. WATER DEMAND MITIGATION FEES FOR CAMINO TASSAJARA INTEGRATED PROJECT⁸

For service connections within the Camino Tassajara Integrated Project⁹, payment of a Water Demand Mitigation Fee (WDMF) shall be required in addition to all other applicable fees and charges including the applicable System Capacity Charge (SCC). The Board of Directors adopted Section 3D to the Water Service Regulations in January 2003 to codify the WDMF and other conservation requirements imposed on the project territory by the County and Local Agency Formation Commission.

1. Non-Residential Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE CAMINO TASSAJARA INTEGRATED PROJECT
5/8	\$17,260 <u>\$17,700</u>
3/4	24,860 <u>25,510</u>
1	38,660 <u>39,660</u>
1-1/2	74,560 <u>76,490</u>

2. Single Family Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE CAMINO TASSAJARA INTEGRATED PROJECT
5/8	\$11,860 <u>\$12,160</u>
3/4	17,420 <u>17,870</u>
1	27,140 <u>27,840</u>
1-1/2	52,300 <u>53,650</u>

⁸The Water Demand Mitigation Fee shall be indexed to the unit charge of the Future Water Supply component of the EBMUD System Capacity Charge.

⁹As generally described in the October 9, 2002 Miscellaneous Work Agreement between the District, Shapell Industries, Ponderosa Homes II, and Braddock and Logan Group II.



SCHEDULE N – WATER DEMAND MITIGATION FEES

EFFECTIVE ~~08/14/17~~ 08/13/18

- The WDMF for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the applicable SCC Future Water Supply component and multiplier (1.61) established by the Board of Directors for smaller meters.

The WDMF for new water service at multi-family premises shall be as listed below. For purposes of this Schedule N, “multi-family premises” shall mean premises with two or more attached or separate residential dwelling units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service, provided that each separate dwelling unit of a multi-family premises shall be separately metered as specified in Sections 2 and 3 of the District’s Regulations Governing Water Service.

Multi-Family Premises – Dollars Per Dwelling Unit (DU)

Each of the first 10 DU in a single structure	\$7,420 <u>\$7,300</u>
Each additional DU in same structure	5,690 <u>5,840</u>

The above WDMF shall apply regardless of the arrangement of water metering or meter size at the premises; however, the District may limit the size and number of service connections to a combined capacity appropriate to the anticipated water use at the premises.

No additional WDMF shall be applicable for separate meters installed to provide irrigation for landscaping on the premises in the immediate area contiguous to the dwelling unit structures, provided such landscaped area is to be used exclusively by the residents. All other rates and charges shall be based on actual number and size of meters and does not apply to the requirements listed below.

A WDMF shall be applicable for separate meters installed to serve other water uses in the vicinity of the multi-family premises, such as irrigation of open space areas, parks, roadway medians, recreational facilities, and areas designated for public use. The WDMF shall be based on meter size as provided under E.1 above. If these other water uses are included in the water service connection to the multi-family premises, the District shall, for purposes of determining the applicable WDMF, determine the equivalent meter size for these uses based on plumbing code and water industry standards, as if there were a separate service connection.

- The WDMF is payable for all connections within phased developments prior to release for construction, the distribution system pipelines and related appurtenances.
- Water use in excess of 120 percent of the annual water budget¹⁰ shall be subject to an Additional WDMF (on a per-occurrence basis). The Additional WDMF shall be determined by multiplying the amount of water used in excess of 100 percent of the annual water budget times the per gallon fee of ~~\$1.10~~ \$1.13 per gpd.

¹⁰The water budget shall be established pursuant to the October 9, 2002 Miscellaneous Work Agreement referenced in Footnote 2.



SCHEDULE N – WATER DEMAND MITIGATION FEES

EFFECTIVE ~~08/14/17~~ 08/13/18

F. WATER DEMAND MITIGATION FEES FOR GALE RANCH PHASE 2, SUBDIVISION 9134¹¹

For service connections within Gale Ranch Phase 2, Subdivision 9134, payment of a Water Demand Mitigation Fee (WDMF) shall be required in addition to all other applicable fees and charges including the applicable System Capacity Charge (SCC).

1. Non-Residential Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE GALE RANCH PHASE 2 SUBDIVISION 9134
5/8	\$16,530 <u>\$16,960</u>
3/4	23,810 <u>24,430</u>
1	37,020 <u>37,980</u>
1-1/2	71,440 <u>73,290</u>

2. Single Family Service Connections (dollars per connection)

METER SIZE (INCHES)	WATER DEMAND MITIGATION FEE FOR STANDARD SERVICE IN THE GALE RANCH PHASE 2 SUBDIVISION 9134
5/8 ¹²	\$11,350 <u>\$11,640</u>
3/4	16,700 <u>17,130</u>
1	25,950 <u>26,630</u>
1-1/2	50,060 <u>51,360</u>

3. The WDMF for service connections with meters larger than 1-1/2 inches shall be determined on a case-by-case basis by the District based on water use information furnished by the applicant and applying the applicable SCC Future Water Supply component.

¹¹The Water Demand Mitigation Fee shall be indexed to the unit charge of the Future Water Supply component of the EBMUD System Capacity Charge.

¹²5/8" fee based on 32,594 gpd ~~demand~~ land use unit demands (LUDS) demand minus 10,884 gpd middle school demand credit divided by 63 residential units resulting in 345 gpd/residential unit.



SCHEDULE N – WATER DEMAND MITIGATION FEES

EFFECTIVE ~~08/14/17~~ 08/13/18

No additional WDMF shall be applicable for separate meters installed to provide irrigation for landscaping on the premises in the immediate area contiguous to the dwelling unit structures, provided such landscaped area is to be used exclusively by the residents. All other rates and charges shall be based on actual number and size of meters and does not apply to the requirements listed below.

A WDMF shall be applicable for separate meters installed to serve other water uses in the vicinity of the multi-family premises, such as irrigation of open space areas, parks, roadway medians, recreational facilities, and areas designated for public use. The WDMF shall be based on meter size as provided under F.1 above. If these other water uses are included in the water service connection to the multi-family premises, the District shall, for purposes of determining the applicable WDMF, determine the equivalent meter size for these uses based on plumbing code and water industry standards, as if there were a separate service connection.

Real Property Use Application Fees



REAL PROPERTY USE APPLICATION FEES

EFFECTIVE ~~07/12/17~~ 07/01/18

TYPE OF USE	APPLICATION FEE
Fee Title (<i>Outright purchase of District property</i>) Properties for Sale Unsolicited	\$2,100.00 <u>2,200.00</u> 12,300.00 <u>12,700.00</u>
Easement (<i>Rights for permanent use of District property, such as access, utilities, etc.</i>) Utility Type Other	2,100.00 <u>2,200.00</u> 5,700.00 <u>5,900.00</u>
Quitclaim (<i>Removal of District's right, title and interest to property</i>) Pipe Abandonment Other	1,000.00 <u>1,100.00</u> 2,300.00 <u>2,400.00</u>
Revocable License (<i>Permission to use District property for periods exceeding one year, subject to revocation. For such uses as utility road crossings of aqueduct properties</i>)	1,700.00
Lease (<i>The right to occupy and use District land for a specified time period</i>)	2,100.00 <u>2,200.00</u>
Telecommunication Lease (<i>Long-term lease for PCS, cellular and/or radio uses</i>)	3,500.00 <u>3,700.00</u>
Information-Only (<i>Request for information requiring research of District records. Information-only applicants will be charged a fee only if the estimated research time exceeds one hour</i>)	130.00 <u>140.00</u> /hr
Processing and Review of Watershed Land Use Proposals (<i>Request for District to perform a formal evaluation of watershed land use proposal</i>)	130.00 <u>140.00</u> /hr (plus all other District costs)
Property Entry Permits, Rights of Entry Permits (<i>Permission for temporary access onto District</i>)	310.00 <u>330.00</u>
Limited Land Use Permit (<i>Allows landscaping, gardening or other minor surface use of District property, subject to annual renewal</i>)	110.00 <u>120.00</u>
Temporary Construction Easement/Encroachment Permit (<i>Permission for temporary access onto District</i>) Open Land, No District Facilities With District Facilities	630.00 <u>650.00</u> 2,200.00 <u>2,300.00</u>
Survey Costs if needed (<i>Application use fees listed above do not include survey costs if needed</i>)	140.00 <u>150.00</u> /hr

Section 1

Explanation of Terms Used in These Regulations



SECTION 1

EXPLANATION OF TERMS USED IN THESE REGULATIONS

DISTRICT shall refer to the East Bay Municipal Utility District unless otherwise specified.

ELEVATION SURCHARGE shall mean that charge applied to customers' accounts where meters are served by pressure zones with an elevation designator of two (2) or more in the District's pressure zone designations. The charge shall be computed in accordance with Schedule A, Rate Schedule for Water Service, Section D. The Elevation Surcharge is a means of allocating the additional costs incurred for pumping and storing water at higher elevations.

EXPANDED SERVICE shall refer to any upgrade, change, modification to existing standard service that increases the size of the meter, or increases to the annual average water use resulting from improvements to the existing structure(s) and new construction.

FRONT FOOT CHARGE shall mean the charge applicable to a premises when a main is or has been brought to the principal frontage of the premises to make service available to the premises. This charge shall be computed in accordance with the provisions of Section 4, and shall generally be the proration of the cost of extending the main based on the width of the premises fronting on and entitled to service from the main extension. The front foot charge shall not apply to premises already entitled to service, according to District requirements, on or before the date the main extension is installed. Where a front foot charge is applicable, it must be paid before a service will be installed.

IRRIGABLE LANDSCAPE AREA shall mean the ~~parcel~~-area of a premises less the aggregate area of structure footprints, impervious and pervious hardscape, and undisturbed open space within that premises.

IRRIGATED LANDSCAPING shall mean the total aggregated area or footprint of irrigated landscape for ~~the entire property~~ a premises, which does not include open space or the non-irrigated area.

The terms "Irrigable Landscape Area" and "Irrigated Landscaping" may apply to more than one premises, as determined solely by the District, where the multiple premises are contiguous and the managing entity for the irrigation water service to those multiple premises is a single person or entity, such as a city or a homeowners' association.

LIMITED SERVICE shall mean a water service connection provided under a written agreement for limited service with special conditions, when standard service is not reasonably available.

MAJOR FACILITIES shall mean storage reservoirs, pumping plants, transmission mains, filter plants, and appurtenances, including necessary properties and rights-of-way.

METER shall mean the entire meter assembly, which may include appurtenances or devices owned and installed by the District in connection with a service connection.



SECTION 1

EXPLANATION OF TERMS USED IN THESE REGULATIONS
(continued)

DEDICATED IRRIGATION METER shall mean the entire meter assembly dedicated for outdoor landscape water use, which may include appurtenances or devices owned and installed by the District or applicant, as solely determined by the District, as provided in Sections 3 and 31 of these Regulations.

MASTER METER shall mean the entire meter assembly dedicated for single service to a premises for water use, which may include appurtenances or devices owned and installed by the District upstream of any applicant installed and owned meters, as provided in Sections 2 and 3 of these Regulations.

PREMISES shall mean a parcel of real estate, including any improvements thereon, which is determined by the District to be a single premises for purposes of receiving, using and paying for service. In making this determination, the District shall take into consideration such factors as [assessor parcel lines](#), whether the parcel could reasonably be subdivided, whether the parcel is being used for a single enterprise, and whether the parcel is divided by a public or a private street, but in any case the District's determination shall be final.

MULTI-FAMILY PREMISES shall mean premises designated for multi-family use by the local land use authority, with two or more attached or separate residential dwelling units, rental or owner occupied, which is determined by the District to be a single premises for receiving water service.

MULTI-OCCUPANCY COMMERCIAL/INDUSTRIAL PREMISES shall mean premises designated for commercial/industrial use by the local land use authority, with two or more attached or separate commercial or industrial occupancy units, rental or owner-occupied, which is determined by the District to be a single premises for receiving water service.

SINGLE FAMILY PREMISES shall mean a premises designated for single-family use by the local land authority, with one or more attached or separate structures, rental or owner-occupied, providing permanent provisions for living, cooking, sanitation, and separate ingress/egress. ~~Accessory structures constructed within the same parcel of real estate shall be considered part of the single-family premises for the purpose of determining total water demand and System Capacity Charges, as solely determined by the District.~~



SECTION 1

EXPLANATION OF TERMS USED IN THESE REGULATIONS (continued)

PRESSURE ZONE shall mean a portion of the water distribution system in which all premises are served through meters within a specific range of elevations and supplied by the same major facilities through an interconnected pipeline network. The upper limit of the pressure zone is 100 feet below the overflow elevation of the reservoir providing service, and the lower limit is determined by the upper limit of the next lower pressure zone or an elevation approximately 300 feet below the overflow elevation of the reservoir. Gravity Zones are those pressure zones which receive their water supply by gravity flow from the treatment plants and are identified by the prefixes "G" and "H" in the District's pressure zone designations. Pumped Zones are those pressure zones which receive their water supply from the treatment plants by pumping and are identified by the prefixes "A" through "F" in the District's pressure zone designations.

PRINCIPAL FRONTAGE shall mean that part of the perimeter of the major portion of the premises where the principal use of the property is located, which fronts on a public street or private road or driveway from which the premises generally receives access, public services and utilities, as determined by the District. Principal use does not include easements, rights-of-way, or a relatively narrow portion of a premises used for access or other purpose.

REASONABLY AVAILABLE SERVICE shall mean that a service connection installed at the principal frontage of the premises will provide adequate pressure and flow for normal operation of plumbing fixtures, water using appliances, requirements set by the responsible fire protection agency, and irrigation. In determining reasonably available service, the District will consider, relative to the service location and the applicable pressure zone, the elevation of the existing or proposed building on the premises, the distance of the building site from the meter location and any pressure and flow requirement for fire protection.

RETROFITS shall mean the conversion or modification of existing water using fixtures, appliances, equipment and landscaping such that they are suitable for water service.

SEPARATE STRUCTURE shall mean a distinct building with separate and/or shared walls, as solely determined by the District, without regard to common pathways, bridges, roof decks and overhangs, parking garages, foundations, and similar above-or-below-ground project features.

SERVICE shall mean the furnishing of water (potable or nonpotable) to a customer through a service connection.

SERVICE CONNECTION shall mean the necessary piping and equipment from the main to and including the meter or battery of meters. Reference to a service connection by size shall mean the size of the meter.



SECTION 1

EXPLANATION OF TERMS USED IN THESE REGULATIONS
(continued)

STANDARD PARTICIPATION CHARGE (SPC) shall mean the charge paid as a contribution towards the cost of future general oversizing of water mains and to provide major facilities capacity for service to new customers. This charge is paid in lieu of the System Capacity Charge by certain applicants who applied for service on or before June 28, 1983. The SPC also includes a component for the allocated cost of providing a future water supply to meet the long-term increase in water demand in the District.

STANDARD SERVICE shall mean a service other than a private fire service, installed within the District service area, adjacent to the principal frontage of the premises to be served, which service is for immediate use to supply a function directly related to such premises.

SYSTEM CAPACITY CHARGE (SCC) shall mean the charge required of all applicants for water service to premises where installation of a service connection is required, including expanded service, as solely determined by the District. The charge to be paid depends on the regional location and the applicable meter size, the estimated annual average water use as determined by the District for large meters not covered in Schedule J based on water use information furnished by the applicant, or number of units. The charge is payment for the costs allocated to providing capacity for water service to applicants within each region, including components for major facilities in the District's distribution system master plan, major facilities constructed prior to the master plan, and water main oversizing. The SCC also includes a component for the allocated cost of providing a future water supply to meet the long term increase in water demand in the District. The charge shall be computed in accordance with Schedule J of the Rates and Charges.

UNIT shall mean and apply to a Dwelling Unit, Accessory Dwelling Unit, Commercial/Industrial Unit, Live/Work Unit, or Work/Live Unit within a premises as defined below, unless specified otherwise.

ACCESSORY DWELLING UNIT shall be as defined by California Government Code section 65852.2(e) and shall mean an attached or a detached unit for residential purposes which is constructed within the existing space of a single-family residence or accessory structure, including, but not limited to, a studio, pool house, or other similar structure, has independent exterior access from the existing residence, and the side and rear setbacks are sufficient for fire safety. An Accessory Dwelling Unit shall provide complete independent living facilities for one or more persons and shall include permanent provisions for living, sleeping, eating, cooking, and sanitation on the same parcel as the single-family dwelling is situated.

DWELLING UNIT shall mean an attached or detached rental or owner-occupied residential unit of a multi-family premises, which provides complete independent living facilities for one or more persons, including one or more permanent provisions for living, sleeping, cooking, sanitation, and separate ingress/egress as solely determined by the District.



SECTION 1

EXPLANATION OF TERMS USED IN THESE REGULATIONS
(continued)

COMMERCIAL/INDUSTRIAL UNIT shall mean an attached or detached rental or owner-occupied unit used directly or indirectly in connection with any non-residential, or business undertaking, which provides complete independent facilities for one or more persons, including one or more permanent provisions for sanitation, and separate ingress/egress as solely determined by the District.

LIVE/WORK UNIT shall be considered an attached or detached unit of a mixed-use premises that accommodates both residential and non-residential activities, but emphasizes the accommodation of residential activities per Local Land Use designation, as solely determined by the District. For the purpose of System Capacity Charges, a Live/Work Unit shall be considered as residential.

WORK/LIVE UNIT shall be considered an attached or detached unit of a mixed-use premises that accommodates both residential and non-residential activities, but emphasizes the accommodation of commercial activities per local land use designation, as solely determined by the District. For the purpose of System Capacity Charges, a Work/Live Unit shall be considered as non-residential.

WATER EFFICIENCY REQUIREMENTS shall mean all devices, technologies, and practices in accordance with Section 31 of these Regulations.

Section 2

Applying for Service



SECTION 2
APPLYING FOR SERVICE

~~If a service connection is already serving a premises, applicants applying for service shall contact the District's customer service center. If a new service connection is required,~~

~~a~~ Applications for new water service ~~or a change in use of existing water service~~ shall be submitted to the New Business Office of the District. The District's requirements for the type of service desired shall be met before an application will be approved ~~(see Section 31—Water Efficiency Requirements)~~. Customers requesting to stop or restart existing water service shall contact the District's Customer Service Center.

If standard service (see Section 3) is not reasonably available, or if the premises is outside of the District's boundaries, or if unusual conditions exist, the applicant will be advised of the terms and conditions that must be met before an application for service may be ~~accepted~~approved. In determining whether the portion of an applicant's premises lying directly along a main constitutes principal frontage, the District's decision shall be final.

Each unit in a newly ~~built structure multi-family or multi-occupancy commercial/industrial~~ premises shall be individually metered. Individual meters shall be installed and owned by the District or applicant, as solely determined by the District. When approved by the District, individual meters installed by an applicant shall meet the standards established by the District and applicable laws. Additional requirements for metering are contained in Section 3 and 31 of these regulations.

Continuance of service is dependent on compliance with the District's regulations governing service, and on conditions at the premises ~~location~~ of the service remaining unchanged to the extent that they do not conflict with the District's requirements for obtaining service. Where a change in conditions at the premises ~~location~~ of the service makes a customer ineligible for continued service the customer concerned shall be responsible for promptly notifying the District in writing of the change.

Applicants for service shall pay all applicable charges in full and in advance as provided in the Schedule of Rates and Charges, including the following:

- Account Establishment Charge
- Service Installation Charges
- Water Service Estimate Fee (if applicable)
- Water Main Extension Charges (if required)
- System Capacity Charge
- Charges for Annexation (if applicable)
- Wastewater Capacity Fee (if applicable)
- Any outstanding balance owed to the District (if applicable)



SECTION 2

APPLYING FOR SERVICE
(continued)

Applicants shall provide all information determined by the District to be necessary to establish conditions at the location of service. This information may include, but is not be limited to:

- Property descriptions
- Improvement plans, including certification of subgrade elevation
- Information regarding soils and known contaminated soil conditions
- Environmental documentation
- Fire flow form signed by responsible fire agency
- Topographical map(s)
- Development and site plans with hydrant locations identified and signed by the responsible fire department (if applicable)
- Hydraulic calculations for proposed fire sprinkler system (if applicable)

AMORTIZATION OF CONNECTION AND INSTALLATION FEES

Applicants for service that satisfy the criteria set forth below may make written application to the District to amortize the payment of water service installation charges (Schedules D and E), water main extension charges (Schedule G), water system capacity charges (Schedule J) and wastewater capacity fees, pursuant to the following terms and conditions:

- The amount amortized shall be at least \$5,000 but not more than \$150,000.
- Applicant shall pay in advance a minimum of 25% of the estimated cost to provide the new service connection.
- Applicants shall enter into an agreement with the District which provides that:
 - a. amortized charges that shall be paid in equal installments over a maximum period of 24 months;
 - b. interest shall be applied to the balance due at a rate set by the Director of Finance;
 - c. water service may be terminated for failure to pay any installment when due;
 - d. repayment of the amortized charges shall be secured by real property owned by applicant and the District shall have the right of foreclosure by a power of sale;
 - e. applicant shall pay all escrow and title search costs incurred.
- Applicants shall execute deeds of trust which shall constitute a lien upon real property interests described therein, which property shall be situated in California and shall be sufficient to secure repayment of the amortized charges.

Applicant Criteria

- I. Applicants providing job training in District job skills.

In order to make application to amortized charges pursuant to this section, the applicant must:



SECTION 2

APPLYING FOR SERVICE
(continued)

- a. make written application to the District for water service;
- b. have tax-exempt status under Internal Revenue Code section 501(c)3;
- c. provide job training, including job skills utilized in District job classifications, to unemployed individuals; and
- d. own and occupy the property for which water service application is made.

II. Applicants providing low income housing incorporating water conserving devices and landscaping.

To apply for amortized charges pursuant to this section, the applicant must:

- be organized solely for the purpose of constructing low income housing;
- provide evidence of eligibility for Community Development Block Grant (CDBG) assistance;
- own the property for which water service is requested;
- seek to amortize charges related to providing water service to a low-income housing project that:
 - i. is restricted to such use for at least 15 years or such other time specified or required by law; and
 - ii. will provide rental units for low-income residents or, if intended for ownership, will be owner-occupied units for low-income residents.
- incorporate water conservation features, beyond those required by law, into the design of the project and install and maintain water conserving landscaping approved by the District; and
- specify the cost benefit that will inure to residents of the project.

For purposes of this section, "housing" and "low-income housing" shall have the following meaning:

- Housing is defined to include rental housing, condominiums, cooperative housing, ownership housing, housing for families, senior housing, housing for physically and/or mentally disabled people, emergency shelters and shared housing.
- Low-income housing is defined as housing that is subsidized in whole or in part by one or more governmental agencies or foundations and that is rented or owned by individuals or families whose incomes are within ranges specified as low-income by the U.S. Department of Housing and Urban Development for Alameda and Contra Costa Counties.

III. In addition to the above criteria, applicants must make written application to the District for water service and provide evidence of tax-exempt status under Internal Revenue Code section 501(c)(3).

Section 3
Standard Service



SECTION 3

STANDARD SERVICE

SERVICE CONNECTION EXISTS AT TIME APPLICATION RECEIVED

Utilization of an existing^A standard service may be granted where a complete service connection for the premises exists, there is no change in the use of the premises, the service has been active within the previous five years, there is no change in service size, and the District's requirements are met as stated in these regulations (see Section 2, Applying for Service and Section 31 – Water Efficiency Requirements). In such cases, if sufficient advance notice is furnished to the District, the service will be turned on at the meter on the date requested by the customer, except Saturdays, Sundays, and holidays.

All requirements established for the existing service connection shall remain in effect, including the requirement for a pressure regulator or backflow prevention device.

SERVICE CONNECTION DOES NOT EXIST AT TIME APPLICATION RECEIVED

When an application is received for a standard service to a premises where a service connection does not exist, or the existing service connection is inadequate, as determined by the District, a standard service may be granted and installed provided the applicant meets the District's general requirements as stated elsewhere in these regulations, and:

1. Service is reasonably available at the premises to be served.
2. The size of the service connection is approved by the District.
3. The applicable District charges have been paid.
4. The applicant agrees to install a pressure regulator or backflow prevention device when required by the District.
5. There is an immediate need for water service to the premises.
6. The applicant agrees to meter the development as specifically approved by the District.

If service is not reasonably available or if unusual conditions exist, the applicant will be advised of the terms and conditions which must be met before an application for service will be accepted.

Additional requirements for nonpotable water service are included in Sections 30 and 31 of these regulations.



SECTION 3

STANDARD SERVICE (continued)

In circumstances under which the District anticipates unusual conditions, the applicant shall pay installation charges based on the District's estimate of the total cost of all materials, labor and other costs incidental to the installation. Unusual conditions shall exist when, in the sole determination of the District, the installation is to be made under conditions that would result in unusual or significant departure from the basic installation charges set forth in the Schedule of Rates and Charges to Customers. Such circumstances shall include, but not be limited to, the length of the lateral, the type of pavement, anticipated soil or other underground conditions, and the width or travel conditions of the roadway or right-of-way.

Water service will generally be made available by extending a main if the premises to be served does not have principal frontage on an existing water main of adequate flow and pressure (See Section 4). However, water service will not be provided by the extension of a water main where the meter(s) for the premises concerned will be located at an elevation of less than 100 feet below the overflow level of the reservoir supplying such main.

EXCEPTIONS

TEMPORARY CONSTRUCTION SERVICE

The District may grant a temporary construction service where it is expected that the service will be in use for a short period to serve a temporary operation not related to any particular premises. In such cases, the appropriate installation and ~~S~~system ~~e~~Capacity ~~e~~Charges set forth in the Schedule of Rates and Charges shall be paid in advance and billing at the current rate for a standard service shall apply.

INSTALLATION OF SERVICES CONNECTIONS ~~IN NEW SUBDIVISIONS~~

Under special conditions the District may install a service connection without the meter in advance of actual need to avoid later cutting of pavement or for other reasons. In such cases, the appropriate installation charges set forth in the Schedule of Rates and Charges shall be paid in advance, but billing procedures shall not apply as the service will not be turned on until ~~a~~ standard service is ~~required~~ requested and approved by the District. ~~The System Capacity Charge shall be paid in accordance with the provisions of Section 3B.~~ If the service connection is not completed by a request for meter installation and turned on within one year of installation of the connection, the District may determine there is no immediate need for water service and may remove the service connection. Regardless of whether the service connection was removed, to complete the installation of the standard ~~establish~~ service a new service application will be required under the Regulations and Schedule of Rates and Charges then in effect. The System Capacity Charge shall be paid in accordance with the provisions of the Schedule of Rates and Charges then in effect.



SECTION 3

STANDARD SERVICE
(continued)

STREET LANDSCAPING SERVICE

The District may grant a street landscaping service for planting strips or areas which lie within public streets and are devoted to and maintained for landscaping and related purposes by the public agency having jurisdiction over the streets. In such cases, the ~~planting strip or irrigable landscape~~ area may be considered a single ~~unit~~ premises for the purposes of receiving, using and paying for service regardless of its division or intersection by other public streets. The District shall approve the size and location of the service and the distance or area which may constitute a single ~~unit~~ premises. The appropriate installation and ~~S~~ system ~~e~~ Capacity ~~e~~ Charge set forth in the Schedule of Rates and Charges shall be paid, and billing at the current rate for a standard service shall apply. Additional requirements for nonpotable and potable water service are contained in Sections 30 and 31 of these regulations.

LANDSCAPING SERVICE

The District may grant a landscaping service for irrigable landscape areas for an entire property which is considered a single premises for the purposes of receiving, using and paying for irrigation service. The District shall approve the size and location of the service and the distance or area which may constitute a single premises. The appropriate installation and System Capacity Charge set forth in the Schedule of Rates and Charges shall be paid, and billing at the current rate for a standard service shall apply. Additional requirements for nonpotable and potable water service are contained in Sections 30 and 31 of these regulations.

COMBINATION STANDARD AND FIRE SERVICE

The California Building Code requires all newly constructed one-and-two-family homes and townhouses to install fire sprinkler systems. The District will grant one service to provide both standard service and a supply to a private fire protection system for each newly constructed single family premises or residential dwelling unit. A separate fire service connection is required for service to a private fire protection system at all other premises except the following:

1. New service or the enlargement of existing connections required for large area premises with public or private educational facilities and publicly-owned facilities served with combined standard and fire service.
2. Service to multi-family residential premises when a combination standard/fire service meter has been installed for each residential dwelling unit.
3. Service to group homes or group residential facilities when it is determined by the District that a combined service connection is acceptable for metering normal water use and is approved by the responsible fire protection agency.



SECTION 3

STANDARD SERVICE
(continued)

Except for the System Capacity Charge as provided in Schedule J, the rates and charges pertaining to the service shall be based on actual meter size.

BRANCH METERS

The District may grant two or more standard services from a single service connection for a premises other than a single-family premises if fire sprinklers are not required. The appropriate installation charge set forth in the Schedule of Rates and Charges shall be paid.

MASTER METER

Each structure of a multi-family or multi-occupancy commercial/industrial premises shall be separately metered, except when, as solely determined by the District, it is infeasible to do so. The District may require each customer type in a new structure with more than one business classification to be metered by a master meter or individual meters for each unit, consistent with ~~Section 2 of these Regulations~~ District Regulations, as solely determined by the District.

A separate meter shall not be required for an Accessory Dwelling Unit as defined by these Regulations.

The District may grant a single service to a premises ~~with two or more units such as a residential or commercial condominium project,~~ provided the premises is determined to be a single business classification and all the following conditions are met:

1. The property to be served must be in single ownership, including streets containing the owner's water service pipelines. Where ~~dwelling units are individually owned,~~ the property surrounding the structures must be in single common ownership under a residents or homeowners association.
2. There must be a single resident manager/management entity for the property who will be responsible for maintaining the private water system beyond the master meter and for payment of all water service charges.
3. The applicant must furnish a written statement from the fire district or other public agency with jurisdiction, indicating its acceptance of the proposed arrangement for providing fire flow, and that the liability for supplying water for fire protection rests solely with the property owner responsible for the private water system.
4. It has been determined by the District that District installed individual meters for each unit or structure is not feasible in accordance with ~~Section 2 of these regulations.~~



SECTION 3

STANDARD SERVICE (continued)

SERVICE CONNECTION NOT AT THE PRINCIPAL FRONTAGE

In certain unusual circumstances, the District may locate a conditional service connection for a premises at other than the principal frontage provided:

- service is reasonably available at that location,
- the principal frontage is on a private road or driveway,
- there is only one premises that would be so served,
- there is no apparent possibility of further extension to serve other premises,
- there is no requirement for a fire hydrant,
- a main extension for adjacent premises would not be required.

The owner(s) of the premises shall agree in writing to the conditions of service and to relocate the service and pay any applicable costs in the future, should standard service become available at the principal frontage. This agreement shall be a covenant against the premises to be served and shall run with the land, and will be recorded by the District.

SERVICE CONNECTION AT ALTERNATE MAJOR FRONTAGE

The District may locate the service connection for a premises at that part of the perimeter immediately adjacent to a street or road of general public access, where a water main exists or may be installed, even though it is not the normal vehicle access to the property and provided that the fire hydrant location in relation to the premises is acceptable to the responsible fire protection agency.

The District may locate the service connection(s) for a multi-family residential unit(s) or multi-occupancy commercial/industrial unit(s) at that part of the perimeter immediately adjacent to a street or road of general public access in a development where individual metering of all multi-family residential or multi-occupancy commercial/industrial unit(s) has been determined to be feasible in the sole discretion of the District in accordance with Section 2 of these Regulations.

Section 29

Water Use Restrictions



SECTION 29

~~PROHIBITING WASTEFUL USE OF WATER~~ USE RESTRICTIONS

A. REGULATIONS AND RESTRICTIONS ON WATER USE

The Board of Directors declares that in order to conserve the District's water supply for the greatest public benefit and to reduce the quantity of water used ~~by the District's customers, the wasteful use of water shall be prohibited. Customers of the~~ District customers shall observe the following regulations and restrictions on water use except where necessary to address an immediate health and safety need or to comply with a term or condition in a permit issued by a state or federal agency. ~~In addition, customers are asked to comply with the water saving guidelines set forth in this section.~~

1. The following potable water uses are prohibited:

- a. The application of potable water to outdoor landscapes in a manner that causes more than incidental runoff such that water flows onto adjacent property, non-irrigated areas, or hardscapes (private and public walkways, roadways, parking lots, or structures);
- b. The application of potable water to outdoor landscapes during and within 48 hours after measurable rainfall;
- ~~c.~~ ~~—Using potable water for irrigating ornamental turf on public street medians;~~
- ~~d.c.~~ The irrigation with potable water of landscapes outside of newly constructed homes and buildings in a manner inconsistent with the irrigation requirements set forth in Section 31 of these Regulations Governing Water Service to Customers or other requirements established by local ordinances and/or state regulations.
- ~~e.d.~~ The application of potable water to sidewalks and driveways; or applying potable water to other hard surfaces or materials that results in excessive use and runoff;
- ~~f.e.~~ The use of a hose that dispenses potable water to wash a motor vehicle, boat, trailer, aircraft or other vehicles except where the hose is fitted with a shut-off nozzle or device attached to it that causes it to cease dispensing water immediately when not in use;
- ~~g.f.~~ The use of potable water in an ornamental fountain or other decorative water feature, except where the water is part of a recirculating system; and
- ~~h.g.~~ Use of potable water for construction, street cleaning, soil compaction and dust control is prohibited if a feasible alternative source of water is available. All water use for construction, soil compaction and dust control will require a permit issued by EBMUD; ~~and~~



SECTION 29

~~PROHIBITING WASTEFUL USE OF WATER~~ USE RESTRICTIONS
(Continued)

~~i. The serving of drinking water other than upon request in eating or drinking establishments, including but not limited to restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased.~~

2. All Customers shall:

- a. Reduce other interior or exterior uses of water to minimize or eliminate excessive runoff ~~or waste~~; and
- b. Repair leaks wherever feasible. Irrigation or plumbing with measureable leaks such that water flows onto adjacent property, non-irrigated areas, or hardscapes (private and public walkways, roadways, parking lots, or structures) shall not be turned on or restored to service until repairs have been completed.

3. Nonresidential Customers shall:

- a. Use systems that recycle water where feasible; single pass cooling systems in new connections, and non-recirculating systems in all new conveyer car wash and commercial laundry systems shall be prohibited.
- b. Limit sewer flushing or street washing with potable water as much as possible, consistent with public health and safety needs; and
- c. Operators of hotels and motels are required to offer patrons the option of not having their towels and linens washed daily. The hotel or motel shall prominently display notice of this option in each guestroom using clear and easily understood language.

4. Water Savings Guidelines

- a. Conserve water indoors. Efficient indoor water use is approximately 45 gallons and super-efficient indoor use is approximately 35 gallons per person daily. Most customers can achieve this by shortening showers and using less bath water, running only full loads of laundry and dishes, and keeping a close eye on faucet use. Additionally, customers are encouraged to reduce the use of kitchen garbage disposals through composting or curbside green waste collection and not to use toilets as wastebaskets. Customers may also consider upgrading to more water-efficient plumbing fixtures and appliances. Customers are also encouraged to check and watch for potential indoor and outdoor leaks.
- b. Use covers on swimming pools and home spas (hot tubs) and avoid frequent draining, refilling and topping off.



SECTION 29

~~PROHIBITING WASTEFUL USE OF WATER~~ USE RESTRICTIONS

(Continued)

- c. Irrigate less outdoors. Most customers can cut outdoor watering without affecting long-term plant health by irrigating before dawn or at dusk, and not on consecutive days. Customers also may want to consider upgrading to more water-efficient irrigation methods and low-water use plants more appropriate and adaptable to the local summer-dry climate.
- d. Gyms, spas and similar facilities should request patrons to conserve water while showering and using wash basins.
- e. All food preparation and eating establishments, including restaurants, hotels, cafes, cafeterias, bars, or other public places where food or drink are served and/or purchased are encouraged to install and use high-efficiency pre-rinse spray nozzles in their kitchens where applicable.
- f. Ensure existing trees remain healthy and do not present a public safety hazard. Trees and other non-turf vegetation within street medians may continue to be watered efficiently.

B. EXCEPTIONS

Consideration of written applications for exceptions regarding the regulations and restrictions on water use set forth in this Section shall be as follows:

- 1. Written applications for exceptions shall be accepted, and may be granted, by the ~~Customer Services~~ Manager of Water Conservation.
- 2. Denials of applications may be appealed in writing to the Manager of the Customer and Community Services Department.
- 3. Grounds for granting such applications are:
 - a. Failure to do so would cause an unnecessary and undue hardship to the applicant, including, but not limited to, adverse economic impacts, such as loss of production or jobs; or
 - b. Failure to do so would cause a condition affecting the health, sanitation, fire protection or safety of the applicant or the public.



SECTION 29

~~PROHIBITING WASTEFUL USE OF WATER~~ USE RESTRICTIONS

(Continued)

C. ENFORCEMENT

1. The District may, after one written warning, order that a special meter reading or readings be made in order to ascertain whether ~~wasteful~~ use of water in violation of these regulations is occurring. Charges for such a meter reading or readings or for follow-up visits by District staff shall be fixed by the Board from time to time and shall be paid by the customer.
2. In the event that the District observes that ~~excessive or wasteful~~ water use in violation of these regulations is occurring at a customer's premises, the General Manager or the Manager of Customer and Community Services Department may, after a written warning to the customer, authorize installation of a flow-restricting device on the service line for any customer observed by District personnel to be willfully violating any of the regulations and restrictions on water use set forth in this section.
3. In the event that a further willful violation is observed by District personnel, the District may discontinue service. Charges for the installation of flow-restricting devices or restoring service may be fixed by the Board from time to time.

Section 31

Water Efficiency Requirements



SECTION 31

WATER EFFICIENCY REQUIREMENTS

These regulations identify the types of water efficiency requirements for water service and the procedure for notification to Applicants that water efficiency measures are required. The most current and water-efficient requirement of EBMUD, local, state or federal regulations in effect on the date the District receives payment for new or upgraded service shall apply.

A. DETERMINATION OF FEASIBILITY OF WATER EFFICIENCY MEASURES

The District will review applications for new standard services and determine the applicability of, and compliance with, water-efficiency requirements. Applicants for expanded service shall be required to meet the water-efficiency requirements for all new water service facilities and may be required to retrofit existing water service facilities or uses to comply with all requirements. Applicant shall maintain design documents and construction and installation records and furnish a copy of said documents and records to the District upon request. The District may inspect the installation of water efficiency measures to verify that the items are installed and performing to the required water efficiency levels. The Applicant or their representative may be present during any District inspection.

B. WATER EFFICIENCY REQUIREMENTS FOR NEW DEVELOPMENT OR EXPANDED SERVICE

Water service shall not be furnished to any Applicant for new or expanded service, or for any change in customer classification (such as a change from industrial to commercial, residential to commercial, or the like) that includes new or retrofitted water using equipment, unless all the applicable water-efficiency measures hereinafter described in this Section 31 and required by applicable local, state and/or federal law have been reviewed and approved by the District. All the applicable and required water-efficiency measures shall be installed at Applicant's expense.

C. INDOOR WATER USE

a. All Applicants shall comply with these regulations and those required by applicable local, state and/or federal law including the California Green Building Standards Code (CAL Green). Installation of after-market flow restrictors does not satisfy CAL Green fixture flow rate requirements.

a.b. Toilets shall be high-efficiency or dual flush models rated and (third party) tested at a maximum average flush volume of 1.28 gallons per flush (gpf), and be certified as passing a 350 gram or higher flush test as established by the U.S. Environmental Protection Agency WaterSense Specification or other District-accepted third party testing entity. Pressure-assisted type toilets shall be high-efficiency rated at a maximum 1.0 gpf. No flush or conversion devices of any other kind shall be accepted.



SECTION 31

WATER EFFICIENCY REQUIREMENTS
(continued)

- c. Wall mounted Urinals shall have a maximum rated flow of 0.125 gpf or less, or be zero water consumption urinals.
- d. Floor mounted urinals shall have a maximum rated flow of 0.5 gpf or less.
- e. Single showerheads shall have a maximum flow rate of 1.8 gallons per minute (gpm) at 80 pounds of pressure per square inch (psi).
- f. Multiple showerheads serving a single shower enclosure shall have a combined flow rate of not more than 1.8 gpm at 80 psi or shall be designed to allow only a single showerhead to be operated at one time.
- ~~b. Showerheads shall be individually plumbed and have a maximum rated flow of 2.0 gallons per minute or less and be limited to one showerhead per shower stall of 2,500 satisfy this requirement.~~
- g. Residential lavatory faucets shall have aerators or laminar flow control devices (i.e., orifices) with a maximum rated flow of 1.2 gallons per minute or less.
- h. Public lavatory faucets shall have aerators or laminar flow control devices with a maximum rated flow of 0.5 gallons per minute or less.
- i. Wash fountains shall have a maximum flow rate of not more than 1.8 gpm per 20 inches of rim space.
- ~~h.i.~~ Metering faucets shall not deliver more than 0.20 gallons per cycle.
- ~~i.k.~~ Kitchen faucets shall have aerators or laminar flow control devices (i.e., orifices) with a maximum rated flow of 1.8 gallons per minute or less with optional temporary flow of 2.2 gpm.
- ~~j.l.~~ Clothes washing machines shall be front loading horizontal axis or top loading models with a water factor rating of 4.5 or less. A water factor rating of 4.5 means a maximum average water use of 4.5 gallons per cubic foot of laundry.
- ~~k.m.~~ Residential dishwashers rated as standard size (i.e. 307 kWh/year) shall use less than or equal to 5.0 gallons/cycle. Dishwashers rated as compact size (i.e., 222 kWh/year) shall use less than or equal to 3.5 gallons/cycle.
- ~~i.n.~~ Cooling towers not utilizing recycled water shall be equipped with recirculating systems and operate at a minimum of five (5) cycles of concentration. Newly constructed cooling towers shall be operated with conductivity controllers, as well as make up and blowdown meters.



SECTION 31

WATER EFFICIENCY REQUIREMENTS (continued)

- ~~j.o.~~ Food steamers in all food service facilities shall be boiler less or self-contained models using ≤ 3.0 gallons per hour where applicable.
- ~~k.p.~~ Commercial ice machines shall be air-cooled or use no more than 20 gallons of water per 100 pounds of ice and shall be equipped with a recirculating cooling unit. ~~Self-contained, under-counter ice machines shall use no more than 25 gallons of water per 100 pounds of ice.~~
- ~~l.g.~~ Commercial refrigeration shall be air-cooled or if water-cooled, must have a closed looped system. No once through, single pass systems are permitted.
- ~~r.~~ Pre-Rinse dishwashing spray valves shall have a maximum rated flow of 1.6 gpm or less.
- ~~m.s.~~ Food disposers shall modulate the use of water to no more than 1 gpm when the disposer is not in use and shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
- ~~n.t.~~ Commercial dishwashers or ware washing equipment shall be currently labeled an EnergyStar rated water efficient model meeting the maximum water consumption limits as specified in the table below:

Machine Type	High Temp Requirements	Low Temp Requirements
Under Counter	≤ 0.86 GPR	≤ 1.19 GPR
Stationary Single Tank Door	≤ 0.89 GPR	≤ 1.18 GPR
Pot, Pan, and Utensil	≤ 0.58 GPSF	≤ 0.58 GPSF
Single Tank Conveyor	≤ 0.70 GRP	≤ 0.79 GPR
Multiple Tank Conveyor	≤ 0.54 GRP	≤ 0.54 GRP
Single Tank Flight Type	≤ GPH ≤ 2.975x + 55.00	≤ GPH ≤ 2.975x + 55.00
Multiple Tank Flight Type	≤ GPH ≤ 4.96x + 17.00	≤ GPH ≤ 4.96x + 17.00

*GRP (gallons per rack); GPSF (gallons per square foot); GPH (gallons per hour)

- ~~o.u.~~ Conveyor and in-bay vehicle wash facilities shall reuse a minimum of 60% of water from previous vehicle rinses in subsequent washes.
- ~~p.v.~~ Self-service vehicle wash facilities shall use spray nozzles with a flow rate of 3.0 gpm or less.
- ~~q.w.~~ Swimming pools and spas shall be covered when not in use, unless public health and safety concerns exist. ~~Public health and safety exemptions may be granted as solely determined by the District.~~



SECTION 31

WATER EFFICIENCY REQUIREMENTS
(continued)

D. OUTDOOR WATER USE

- a. All Applicants shall comply with ~~these~~ all District water service regulations and those required by applicable local, state and/or federal law including the ~~California Code of Regulations, Title 23, Division 2, Chapter 2.7~~ Model Water Efficient Landscape Ordinance (MWELo).
- b. Applicants shall submit, at a minimum, a scaled site plan that identifies the property address, parcel boundaries, building footprints, hardscape, softscape, meter location, and location of each hose bib. If an application for service is submitted without a detailed landscape plan for the entire premises, the District will estimate the new irrigable landscape area to determine the potential irrigation demand (default demand) for inclusion in the total domestic water demand calculation. Projects subject to MWELo shall also provide a compliant landscape documentation package as required by the ordinance.
- ~~c. For all projects subject to MWELo where landscaping is intended to be installed by a subsequent buyer or tenant and a landscape documentation package for each individual parcel is not prepared, the following will apply:~~
- ~~• The District will estimate the irrigable area to determine the potential irrigation demand (default demand) for inclusion in the total domestic water demand calculation; and~~
 - ~~• The applicant will document and install the following MWELo-compliant water efficient irrigation components:~~
- ~~d. c. All premises with 500 square feet or more of new irrigable landscape area~~ All subject properties shall install a modular weather-based smart controller with rain or soil moisture sensor, an irrigation connection with ~~an appropriate backflow prevention device~~ a backflow prevention device, a pressure regulator where pressure exceeds the operating range of system components, and sleeves allowing irrigation to extend to all landscape areas. ~~;~~ and
- ~~d. All Non-residential premises~~ properties with 500 square feet or more ~~than 1,000 square feet of new irrigable landscape area and residential properties with more than 5,000 square feet of irrigable~~ shall also install a ~~pressure regulator and a~~ flow sensor with master shutoff valve.
- ~~e.~~
- ~~f. e. All residential premises with more than 5,000 square feet of new irrigable landscape area shall also install a flow sensor with master shutoff valve.~~



SECTION 31

WATER EFFICIENCY REQUIREMENTS (continued)

f. As provided in Sections 1 and 3 of the Regulations, unless determined by the District that a District-dedicated irrigation meter is shall be required, a private dedicated irrigation meter shall be required for residential premises with an irrigable landscape area of 5,000 square feet or more.

g. As provided in Sections 1 and 3 of the Regulations, unless determined by the District that a District-dedicated irrigation meter is required, a private dedicated irrigation meter shall be required for non-residential premises with an irrigable landscape area of more than 1,000 square feet but less than 5,000 square feet.

g.h. As provided in Sections 1 and 3 of the Regulations, a District dedicated irrigation meter shall be required for non-residential premises with an irrigable landscape area of 5,000 square feet or more.

- ~~• Residential projects with an irrigable landscape area of 5,000 square feet or more.~~
- ~~• Non-residential projects with an irrigable landscape of 1,000 square feet or more.~~

h. Certificate of Completion:

- ~~• Applicant shall submit a landscape audit report verifying installation and irrigation efficiency per approved design on a form provided by the District. The audit shall be prepared by an accredited and certified third party landscape irrigation auditor.~~

E. PENALTIES/CONSEQUENCES

Failure of Applicant to conform to this Regulation and these water-efficiency requirements stated herein may require result in the Applicant a requirement to resubmit a revised water service application and water-efficiency plan(s) at the Applicant's expense. The and District's may withhold ing of water meter(s) and account activation until the District approves application for compliance with these requirements.

Schedule F

Wastewater Department Rates for Resource Recovery Material Treatment



**SCHEDULE F¹ – WASTEWATER DEPARTMENT
RATES FOR RESOURCE RECOVERY MATERIAL TREATMENT**

EFFECTIVE 07/01/18

MATERIAL TYPE	RATE ²
Septage	\$0.07/gal
Fats, Oil and Grease	\$0.08/gal
Process Water	\$0.05/gal
Brine	<u>Variable with Total Dissolved Solid (TDS)</u> \$0.04/gal ≤ 50,000 mg/l TDS \$0.06/gal 50,001 – 100,000 mg/l TDS \$0.09/gal > 100,000 mg/l TDS
Sludge	<u>Variable with % Total Solids (TS)</u> \$0.05/gal up to 3% TS Plus \$0.005/gal per %TS for TS between 3% to 20%
<u>Clean Liquid Food Waste Slurry³</u>	<u>Variable with % Total Solids (TS)</u> <u>\$0.04/gal up to 3% TS</u> <u>Plus \$0.005/gal</u> <u>per % TS for TS between 3% to 20%</u>
Liquid Organic Material	\$0.04/gal
Protein Material	\$0.08/gal
Solid Organic Material	\$30/ton – \$65/ton ³⁴
Permit Fee	\$300 (per year)

¹Payment collection for all Resource Recovery accounts shall follow the payment collection provisions contained in Section 13, Payment of Bills in the Regulations Governing Water Service to the Customers of EBMUD and Items C and K, Returned Payment Charge and Late Payment Penalty and Interest, of Schedule C of the Water System Rates and Charges.

²For special accommodations, additional charges for actual personnel costs, equipment costs, and lab costs associated with the special accommodation will apply. Special accommodations include services provided by the District above and beyond what is typical, such as evaluation and testing of a unique material stream, special equipment to receive and process material, accommodations for large volumes, special off-hour deliveries that require additional staff support, or special treatment requirements.

³Clean liquid food waste slurry must behave as a liquid and contain minimal amounts of contamination. Food waste slurries that require additional contamination removal do not qualify for this rate.

³⁴Based on treatment costs (residual solids dewatering and disposal), gas production, volumes and other costs or benefits to the District.

Schedule G

Wastewater Department Capacity Fees



SCHEDULE G – WASTEWATER DEPARTMENT CAPACITY FEES

EFFECTIVE ~~08/14/17~~08/13/18

Residential (\$/dwelling unit) ^{1, 5}		\$2,510 ²	<u>\$2,610²</u>
Non-Residential (\$/ccf/mo) ^{3, 4, 5}			
2010	Meat Products	\$1,233	<u>\$1,283</u>
2011	Slaughterhouses	1,179	<u>1,227</u>
2020	Dairy Product Processing	970	<u>1,009</u>
2030	Fruit and Vegetable Canning	782	<u>813</u>
2040	Grain Mills	778	<u>810</u>
2050	Bakeries (including Pastries)	1,338	<u>1,393</u>
2060	Sugar Processing	770	<u>801</u>
2077	Rendering Tallow	2,314	<u>2,408</u>
2088	Beverage Manufacturing & Bottling	587	<u>610</u>
2090	Specialty Foods Manufacturing	2,492	<u>2,593</u>
2600	Pulp and Paper Products	669	<u>696</u>
2810	Inorganic Chemicals Manufacturing	858	<u>892</u>
2820	Synthetic Material Manufacturing	209	<u>217</u>
2830	Drug Manufacturing	438	<u>456</u>
2840	Cleaning and Sanitation Products	876	<u>911</u>
2850	Paint Manufacturing	1,679	<u>1,748</u>
2893	Ink and Pigment Manufacturing	644	<u>639</u>
3110	Leather Tanning and Finishing	2,316	<u>2,410</u>
3200	Earthenware Manufacturing	478	<u>497</u>
3300	Primary Metals Manufacturing	384	<u>396</u>
3400	Metal Products Fabricating	227	<u>236</u>
3410	Drum and Barrel Manufacturing	2,358	<u>2,454</u>
3470	Metal Coating	245	<u>255</u>
4500	Air Transportation	319	<u>332</u>
5812	Food Service Establishments	813	<u>845</u>
7000	Hotels, Motels with Food Service	587	<u>611</u>
7210	Commercial Laundries	529	<u>551</u>
7215	Coin Operated Laundromats	400	<u>416</u>
7218	Industrial Laundries	1,486	<u>1,546</u>
7300	Laboratories	289	<u>300</u>
7542	Automobile Washing and Polishing	379	<u>395</u>
8060	Hospitals	365	<u>379</u>
8200	Schools	274	<u>282</u>
	All Other Business Classification Codes (includes dischargers of only segregated domestic wastes from sanitary conveniences)	414	<u>427</u>



SCHEDULE G – WASTEWATER DEPARTMENT CAPACITY FEES

EFFECTIVE ~~08/14/17~~08/13/18

Permit Accounts^{4, 6}

Flow (\$/ccf/mo)		\$184.44	\$191.93
Chemical Oxygen Demand Filtered (CODF) (\$/lb/mo)		57.27	59.59
Total Suspended Solids (TSS) (\$/lb/mo)		72.96	75.92

¹Includes BCC 6514 and 8800.

²Residential fee is calculated as follows:

Flow:	6.7	x	\$184.44 \$191.93	=	\$1,236 \$1,286
CODF:	7.9	x	57.27 59.59	=	452 471
TSS:	11.29	x	72.96 75.92	=	824 857
					\$2,512 \$2,614
					Rounded to
					\$2,510 \$2,610

³Capacity Fee is based on the anticipated maximum monthly flow contributions and the average wastewater strength measured or assigned for each classification of customer. The District may review the actual flow and strength within 24 months, once the business is fully established to verify the estimated demand for wastewater capacity. The review may result in the assessment of additional capacity fees if the actual flow and strength exceeds the original estimate.

⁴For non-residential customers with projected treatment revenues equal to or greater than 0.1% of the total District treatment revenue, the calculated capacity fee will be reduced by a Rate Stabilization Factor of 25%. Projected treatment revenue will be based on permit conditions at the time of application or on average wastewater strength measured for each classification of customer if a permit is not required for discharge. Total District treatment revenue will be based on the budgeted fiscal year amount at the time of application.

⁵A credit may be provided for existing services. Where a new service will replace one or more existing or prior services to a premise and a capacity fee was paid, a credit will be applied to the new capacity fee based on the previous capacity unit paid or if the existing service had not paid a capacity fee (for accounts in service prior to July 1, 1987) then the credit is based on historic use over the preceding 10 year period.

⁶Total fee is a summation of the unit rates for flow, CODF, and TSS times permit conditions at the time of application.

Schedule D

Water Service Installation Charges

With Full FY19 Update



SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ FULL FY19 UPDATE¹

A. INSTALLING A SERVICE

The charge for installing a water service, other than a private fire service, will be in accordance with the following schedule:

1. FOUR INCHES AND SMALLER⁴

a. Regular Services (1 meter per lateral)

<u>LATERAL</u> SIZE	INSTALLED IN PAVED CONDITIONS	INSTALLED IN UNPAVED CONDITIONS
5/8", 3/4", & 1" <u>Lateral with 1" and under meter</u>	\$6,193 <u>\$8,913</u>	\$1,169 <u>\$4,671</u>
<u>1-1/2" Lateral with 1- 1/2" and under meter</u>	6,379 <u>14,349</u>	3,148 <u>8,442</u>
<u>2" Lateral with 2" and under meter</u>	7,301 <u>14,349</u>	3,468 <u>8,442</u>
<u>3"² Lateral with 3" and under meter</u>	23,892 <u>34,474</u>	21,504 <u>23,818</u>
<u>4"² Lateral with 4" and under meter</u>	25,885 <u>34,474</u>	23,297 <u>23,818</u>

Cost to install services with 6" laterals and larger will be calculated on an actual cost case-by-case basis.

~~b. Lateral Sizing for Fire Flow Capacity~~

~~Where local and state regulations require that taps and laterals for new regular service be sized to provide for fire flow capacity, the following charges shall apply:~~

~~Basic charge to provide a 1-1/2" lateral and a 1" meter, to be paid at time tap and lateral are installed:~~

a.—Installations in unpaved conditions	\$3,048
b.—Installations in paved conditions	6,255

¹Recommended FY19 charges shown in Chapter 5 reflect a three year phase-in of the full update. The shortfall in revenue collected from the phase-in of the increases in FY19 and FY20 will be funded from higher than budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values.

⁴~~If the District determines that an ERT (Encoder, Receiver, Transmitter) meter is required, there shall be an additional charge of \$200.~~

²Requires steel pipes



SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ FULL FY19 UPDATE

~~e.b.~~ Branch Services (2 or more meters per lateral)

METER SIZE	# OF METERS	INSTALLED IN PAVED CONDITIONS	INSTALLED IN UNPAVED CONDITIONS
5/8" Meters	2	\$6,654 <u>\$9,295</u>	\$3,421 <u>\$5,052</u>
	3	6,925 <u>14,461</u>	3,692 <u>8,554</u>
	4	7,198 <u>14,482</u>	3,967 <u>8,935</u>
	5	8,393 <u>15,223</u>	4,559 <u>9,316</u>
	6	8,665 <u>15,604</u>	4,832 <u>9,697</u>
	7	8,938 <u>15,985</u>	5,104 <u>10,079</u>
	8	9,210 <u>16,366</u>	5,377 <u>10,460</u>
1" Meters	2	6,871 <u>14,080</u>	3,642 <u>8,173</u>
	3	7,258 <u>14,461</u>	4,027 <u>8,554</u>
	4	7,640 <u>14,842</u>	4,408 <u>8,935</u>

~~d.c.~~ Adjustment for Applicant Assisted Service Installations

Applicants requesting installation of at least 15 service laterals may choose to provide their own trenching and backfilling and be eligible to receive a refund of up to ~~\$311~~ 517.00 per service lateral installed provided that the applicant:

- (i) pays the appropriate charges for each service as specified in sections (a) or (b) above.
- (ii) clears the construction site of obstructing materials and equipment.
- (iii) excavates a minimum of 15 service laterals ahead of District crews.
- (iv) hauls sand and select backfill to the construction site for use by District crews in supporting the service lateral and for applicant backfilling of trenches.
- (v) backfills and compacts the trenches after District crews have installed and properly secured the service lateral.
- (vi) reimburses the District for (1) unproductive crew standby due to applicant's failure to prepare the site or excavate trenches in advance; (2) District costs to repair damage done by applicant's trenching operation.

~~e. Tract Service Property Line Installation~~

~~If the customer elects not to dig service lateral trenches, but does comply with the guidelines of two services in one trench at property line, EBMUD will reimburse the customer \$156.00 for each service lateral.~~



SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ FULL FY19 UPDATE

~~f.d. The service lateral reimbursements referenced above do not apply to nonpotable water service. Conditions for nonpotable water service will be determined in accordance with the water service application and permit provisions in Sections 3, 4, and 30 of the Regulations Governing Water Service.~~

2. ALL OTHERS

The charge for installing all water services other than those in the above schedule shall be the actual cost of installing the service, as determined by the District, including engineering, equipment, material, labor and related overhead expenses.

B. COST OF INCREASING METER SIZE (Up to available capacity on existing lateral)

1" Tap and Lateral (Additional charge of ~~\$448~~600 if concrete replacement required)
~~\$516~~1,089

1-1/2" Tap and Lateral² (~~No~~Additional charge of \$600 if concrete replacement required)

<u>Up</u>	<u>to</u>	<u>1-1/2"</u>	<u>\$1,089</u>
5/8"	to	3/4"	\$600
5/8"	to	1"	600
3/4"	to	1"	600
5/8"	to	1-1/2"	761
3/4"	to	1-1/2"	761
1"	to	1-1/2"	761

2" Tap and Lateral² (~~No~~Additional charge of \$600 if concrete replacement required)

<u>Up</u>	<u>to</u>	<u>2"</u>	<u>\$1,172</u>
5/8"	to	3/4"	\$600
5/8"	to	1"	600
3/4"	to	1"	600
5/8"	to	1-1/2"	1,127
1"	to	1-1/2"	1,127
*5/8"	to	2"	1,127
*3/4"	to	2"	1,127
*1"	to	2"	1,127
1-1/2"	to	2"	1,127

² Additional charge of \$524 if concrete replacement required.



SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ FULL FY19 UPDATE

4" Tap and Lateral

(Additional charge of \$~~448~~600 if concrete replacement required)

<u>Up</u>	<u>to</u>	<u>2"</u>	<u>\$1,172</u>
5/8"	to	3/4"	\$600
5/8"	to	1"	600
3/4"	to	1"	600
5/8"	to	1-1/2"	1,127
3/4"	to	1-1/2"	1,127
1"	to	1-1/2"	1,127
5/8"	to	2"	1,127
3/4"	to	2"	1,127
1"	to	2"	1,127
1-1/2"	to	2"	1,127

4" Tap and Lateral

(Additional charge of \$~~557~~600 if concrete replacement required)

<u>Up</u>	<u>to</u>	<u>4"</u>	<u>\$6,221</u>
5/8"	to	3"	\$7,894
3/4"	to	3"	7,894
1"	to	3"	7,894
1-1/2"	to	3"	7,894
2"	to	3"	7,894
5/8"	to	4"	7,894
3/4"	to	4"	7,894
1"	to	4"	7,894
1-1/2"	to	4"	8,790
2"	to	4"	8,790
3"	to	4"	8,790

C. COST OF REDUCING SERVICEMETER SIZE (Additional charge of \$~~557~~600 if concrete replacement required)

<u>1", 1-1/2" and</u>		<u>\$1,536</u>	
<u>2" Laterals</u>	<u>to</u>	<u>smaller meter</u>	
<u>3" and 4"</u>		<u>3.005</u>	
<u>Laterals</u>	<u>to</u>	<u>smaller meter</u>	
1"	to	3/4" or 5/8"	\$370
1-1/2"	to	1", 3/4" or 5/8"	511
2"	to	1-1/2"	1,418
2"	to	1", 3/4" or 5/8"	511
3"	to	2"	2,284
3"	to	1-1/2"	2,258
3"	to	1", 3/4" or 5/8"	1,937
4"	to	3"	7,714
4"	to	2"	2,252
4"	to	1-1/2"	2,252
4"	to	1", 3/4" or 5/8"	1,937



SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ FULL FY19 UPDATE

D. RELOCATING AN EXISTING SERVICE

1. To relocate an existing service perpendicular to the curb line or a distance not exceeding five feet parallel to the curb line, a charge will be ~~made equal to 20% of the Installation Charge for the corresponding service size~~ \$2,292.
2. To relocate an existing service a distance exceeding five feet parallel to the curb line, a charge will be made in accordance with Section A – Installing a Service ~~the following schedule~~ plus the cost of eliminating old service connection:

~~a. FOUR INCHES AND SMALLER~~

SIZE	RELOCATION CHARGE
5/8", 3/4" & 1"	\$6,193
1-1/2"	6,379
2"	7,304
3"	23,892
4"	25,885

~~b. SIX INCHES AND LARGER~~

~~Total actual cost of a new service installation, plus cost of eliminating old service connection, less salvage value of materials recovered.~~

E. RESETTING OR REPLACING A METER

There will be a charge equivalent to 5% of the water service installation charge for resetting a meter on an existing service connection.

There will be a charge equivalent to 5% of the water service installation charge for replacing a meter when applicants lose or damage meters when constructing new developments.



SCHEDULE D – WATER SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ FULL FY19 UPDATE

F. CONVERSION OF INDIVIDUAL SERVICE TO BRANCH SERVICE

(Multi-metering, when feasible)

<u>Branch Conversion</u>	<u>\$2,671 for two meter conversion, \$381 for each additional meter</u>	
	<u>(Additional charge of \$600 if concrete replacement is required)</u>	
1" tap and lateral to 2-5/8" meter manifold	\$507	(Additional charge of \$448 if concrete replacement required)
1.5" tap and lateral to 3 or 4-5/8" meters	\$1,012	(Additional charge of \$597 if concrete replacement required)
1.5" tap and lateral to 2-1" meter manifold	\$586	(Additional charge of \$597 if concrete replacement required)
2" tap and lateral to 5/8" meter manifold		
5 and 6 meters	\$1,553	(Additional charge of \$597 if concrete replacement required)
7 and 8 meters	\$1,985	(Additional charge of \$748 if concrete replacement required)
4" tap and lateral to a 5/8" meter manifold	\$1,590 plus \$252 per meter requested	(Additional charge of \$748 if concrete replacement required)

G. SERVICE ELIMINATIONS

3/4" to 2"	\$1,463 <u>\$2,290</u>	(Additional charge of \$448 if concrete replacement required)
3" to 12"	\$3,748 <u>\$3,879</u>	(Additional charge of \$597 if concrete replacement required)

H. INSTALLATION OR OTHER WORK UNDER UNUSUAL CONDITIONS

The above charges apply to installation charges for water services four inches and smaller except where there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the charge will be based on the District's actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.

Schedule E

Private Fire Service Installation Charges

With Full FY19 Update



SCHEDULE E – PRIVATE FIRE SERVICE INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ FULL FY19 UPDATE¹

A. INSTALLING A PRIVATE FIRE SERVICE

The charge for installing a private fire service will be in accordance with the following schedule:

SIZE	INSTALLED IN PAVED CONDITIONS	INSTALLED IN UNPAVED CONDITIONS
1-1/2"	\$6,379	\$3,148
2"	7,301	3,468
4"	19,554 <u>\$28,500</u>	17,554 <u>\$17,844</u>
6"	20,830 <u>29,699</u>	18,830 <u>19,043</u>
8"	28,893 <u>29,699</u>	26,893 <u>19,043</u>

Cost to install 2" and smaller is shown in Schedule D – Water Service Installation Charges, Section A.1 – Installing a Service Four Inches and Smaller.

Cost to install 10" and larger will be calculated on an actual cost ~~case-by-case~~ basis.

~~The charges for four-inch and larger includes cost of detector check meter, meter box, connection to existing mains and fittings.~~

B. INSTALLATION UNDER UNUSUAL CONDITIONS

The above charges apply to all installation charges for private fire services except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the charge will be based on the District's actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.

¹Recommended FY19 charges shown in Chapter 5 reflect a three year phase-in of the full update. The shortfall in revenue collected from the phase-in of the increases in FY19 and FY20 will be funded from higher than budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values.

Schedule F

Public Fire Hydrant Installation Charges

With Full FY19 Update



SCHEDULE F – PUBLIC FIRE HYDRANT INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~FULL FY19 UPDATE¹

The following charges will be made for the installation, removal or relocation of a fire hydrant.

A. HYDRANT INSTALLATION BY THE DISTRICT

The charge for installation of a fire hydrant by the District on an existing main or on/with new mains is ~~\$13,796~~29,511 in pavement and \$18,855 in dirt.

~~For hydrants installed by the District on/with new mains being installed by the District see Schedule G, Sections C.2 and C.3.~~ For hydrants installed by applicant on/with new mains installed by the Applicant see Section B below.

B. HYDRANT INSTALLATIONS BY APPLICANT ON APPLICANT-INSTALLED MAIN EXTENSIONS

- 1. Basic charge for materials and handling, ~~engineering and inspection services~~ for a 6-inch fire hydrant ~~\$3,160~~3,731.00
- 2. Material charge for services laterals ~~\$16~~21.00 per foot

NOTE: Applicants will not be permitted to install a fire hydrant on an existing main.

C. HYDRANT REMOVAL

- 1. The charge to remove a hydrant located in concrete sidewalk ~~\$3,303~~3,879.00
- 2. The charge to remove a hydrant located in dirt ~~\$2,938~~2,395.00

~~D. INSTALLATION OF A FIRE HYDRANT AT A LOCATION WHERE THERE IS EXISTING FIRE HYDRANT COVERAGE~~

~~If a fire hydrant is ordered installed at or near a location where there is existing fire hydrant coverage, as a requirement precedent to installing the new fire hydrant, the District reserves the right to remove the existing fire hydrant and levy the charge for removal (Section C).~~

~~E~~D.RELOCATION OF A FIRE HYDRANT

The charge for the relocation of a hydrant will be the charge for the hydrant removal (Section C) plus the charge for the installation of a new hydrant (Section A). ~~No credit will be given for salvaged material unless the hydrant body is of the current design and can be reused, in which case a credit of \$475 will be allowed.~~

~~F~~E.SETBACK/OFFSET OF A FIRE HYDRANT

Where the relocation of a fire hydrant does not require a new connection to the main, the charge is ~~\$8,794~~9,303. There is an additional charge of ~~\$584~~600 for concrete replacement.

¹Recommended FY19 charges shown in Chapter 5 reflect a three year phase-in of the full update. The shortfall in revenue collected from the phase-in of the increases in FY19 and FY20 will be funded from higher than budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values.



SCHEDULE F – PUBLIC FIRE HYDRANT INSTALLATION CHARGES

EFFECTIVE ~~07/01/14~~ FULL FY19 UPDATE

GE.REPLACEMENT OF A HYDRANT BODY

To replace an existing hydrant with a MODEL-64 hydrant body, or equivalent, on a wet barrel, above ground shutoff type hydrant, ~~the following charges will be made:~~the replacement charge is \$1,761.

- ~~1. If the existing hydrant body is a wet barrel, aboveground shutoff type, the replacement charge is~~ ~~_____~~ ~~\$1,518.00~~
- ~~2. If the existing hydrant body is a dry barrel, underground shutoff type, the replacement charge is~~ ~~_____~~ ~~2,366.00~~

HG.INSTALLATION UNDER UNUSUAL CONDITIONS

The above charges apply to all installation charges for fire hydrant installations except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the charge will be based on the District’s actual cost of all engineering, material, equipment, labor and related expenses incidental to the installation.

Schedule G

Water Main Extension Charges

With Full FY19 Update



SCHEDULE G – WATER MAIN EXTENSION CHARGES

EFFECTIVE ~~07/01/14~~ FULL FY19 UPDATE¹

A. DISTRICT-INSTALLED MAINS

The charge for District-installed main extensions up to 1,000 feet shall be based on the standard charges as specified ~~in Sections B and C~~ below.

~~B. DISTRICT-INSTALLED TWO-INCH MAINS~~

~~1. The~~ Charge for engineering, inspection, pipeline materials and appurtenances, and District installation of the required mains by the District ~~two-inch mains~~ in dirt streets and in paved streets, excluding fire hydrants and any charges for water service connections (which are covered by Schedules D, E, and F) consists of :

~~a. 1.~~ Basic installation charge of \$~~4,610~~4,019.00
plus,

~~2. Linear foot charge of:~~

PVC pipe in dirt streets	\$112.00 per foot
PVC pipe in paved streets	183.00 per foot
Copper pipe in dirt streets	130.00 per foot
Copper pipe in paved streets	201.00 per foot

~~C. DISTRICT-INSTALLED SIX-INCH AND EIGHT-INCH MAINS~~

~~The charge for District installation of six-inch and eight-inch steel and PVC mains up to 1,000 feet, excluding any charges for water service connections, consists of:~~

~~1. Basic installation charge of~~ ~~\$4,610.00~~
~~plus,~~

~~2. Basic charge per fire hydrant installed:~~

In dirt	\$9,656.00
In pavement	11,038.00

~~plus,~~

~~3. Linear foot charge, for combined length of main extension and fire hydrant lateral of 0- to 1,000 LF~~ feet:

~~In dirt streets~~ ~~or roads~~

2-inch PVC pipe	\$<u>412</u><u>200</u>.00 per foot
2-inch Copper pipe	<u>130</u><u>233</u>.00 per foot
6-inch/8-inch PVC or HDPE pipe	<u>167</u><u>316</u>.00 per foot
6-inch/8-inch Steel pipe	<u>202</u><u>361</u>.00 per foot
12-inch HDPE pipe	<u>444</u>.00 per foot
12-inch Steel pipe	<u>489</u>.00 per foot

¹Recommended FY19 charges shown in Chapter 5 reflect a three year phase-in of the full update. The shortfall in revenue collected from the phase-in of the increases in FY19 and FY20 will be funded from higher than budgeted property tax revenue received by the District in recent years as a result of increased building activity and property values.



SCHEDULE G – WATER MAIN EXTENSION CHARGES

EFFECTIVE ~~07/01/14~~ FULL FY19 UPDATE

In paved streets ~~or roads~~

<u>2-inch</u> PVC pipe	\$183,328.00 per foot
<u>2-inch</u> Copper pipe	204,360.00 per foot
<u>6-inch/8-inch</u> PVC or HDPE pipe	249,434.00 per foot
<u>6-inch/8-inch</u> Steel pipe	277,479.00 per foot
<u>12-inch</u> HDPE pipe	564.00 per foot
<u>12-inch</u> Steel pipe	609.00 per foot

b. D. The above charges apply to all District-installed mains except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including hydraulic analysis, property rights evaluation, site conditions or contaminated soil. In such cases, the additional charge will be based on the District’s actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.

EB. APPLICANT-INSTALLED MAINS

The ~~following~~ charges apply to for a Applicant-installed ~~water~~ main extensions ~~under normal conditions as defined in the Regulations.~~ over 1,000 feet shall be based on the following standard charges:

1. Charge for engineering, inspection, and certain pipeline materials, designated below for the installation of the required water mains by the applicant, excluding fire hydrants and water service connections (which are covered by Schedules D, E, and F) consists of:

a. Basic installation charge of \$~~4,184,019.00~~ plus,

Linear foot charge of:

6-inch/ <u>8-inch</u> diameter pipe	\$ 34,55.00 per foot
8-inch diameter pipe	34.00 per foot
12-inch and larger diameter pipe	See 7-C, #365.00 per foot
<u>16-inch and larger diameter pipe</u>	<u>See B, 3 below</u>

b. The charge to the applicant for District-supplied pipe and fittings (which include valves, valve cover, blowoffs, and minor appurtenances as identified by District-furnished drawings and specifications) will be the District’s cost for these materials; ~~at the time of delivery to the applicant, plus~~ including tax and shipping.

c. The above charges apply to all a Applicant-installed mains except when there are unusual or special conditions which, in the opinion of the District, would result in the need for additional services and materials, including added testing and inspection, changes due to project revisions, property rights evaluation, site conditions or contaminated soil, and any construction by District forces to complete the installation. In such cases, the additional charge will be based on the District’s actual cost of all engineering, material, equipment, labor and related overhead expenses incidental to the installation.



SCHEDULE G – WATER MAIN EXTENSION CHARGES

EFFECTIVE ~~07/01/14~~ FULL FY19 UPDATE

In all cases the District will supply valves, valve pot covers, blowoffs, and minor appurtenances as identified by District-furnished drawings and specifications.

2. Credits (where applicable) when pipe to be installed by the applicant is required by the District to be larger than the pipe size needed to serve the applicant or when applicant installs District improvements in conjunction with applicant-installed main extensions will be based on a District engineering cost estimate.
3. Charges ~~and Credits~~ for ~~Steel~~-Pipe ~~Other~~Greater than ~~Eight~~12 Inches

Charges for Applicant-installed mains ~~other~~greater than ~~eight-12~~ inches, ~~credits (where applicable) to applicant for mains other than eight-inch, or applicant-installed District improvements in conjunction with applicant-installed main extensions~~ will be based on a District engineering cost estimate.

Comparison of 6" Fire Service Installation with Other Agencies



Agency	6" Fire Service Installation
SFPUC	\$30,310
ACWD	\$46,300 approx.
CCWD	\$25,000 approx.
EBMUD updated	\$29,699
EBMUD phase-in FY19	\$23,786

Comparison of 1 1/2" and 4" Service Installation with Other Agencies



Agency	1 1/2" Standard Service Installation	4" Standard Service Installation
SFPUC	\$13,620	\$38,940
ACWD	\$13,000	\$41,300
CCWD	\$13,273	\$35,000
EBMUD proposed	\$14,349	\$34,474
EBMUD phase-in FY19	\$9,650	\$28,748

Comparison of Fire Hydrant Installation with Other Agencies



Agency	Fire Hydrant Installation
ACWD	\$35-45,000 approx.
CCWD	\$25,000 approx.
EBMUD proposed	\$29,511
EBMUD phase-in FY19	\$19,034