

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA



Board of Directors Finance & Insurance Committee

4/9/2019 Board Meeting

8-1

Subject

Approve resolutions fixing and adopting a Readiness-to-Serve Charge and a Capacity Charge for calendar year 2020; the General Manager has determined the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

This letter recommends approval of the resolutions to fix and adopt a Readiness-to-Serve (RTS) Charge and a Capacity Charge effective January 1, 2020, based on the budget, rates, and charges adopted by the Board on April 10, 2018.

Details

Background

On April 10, 2018, Metropolitan's Board adopted its biennial budget for fiscal years (FYs) 2018/19 and 2019/20, rates for calendar years (CYs) 2019 and 2020, and charges for CY 2019. In meetings and workshops held from February through April 2018, Metropolitan's Board, the Finance and Insurance Committee of the Board, and Metropolitan's member agencies reviewed and evaluated the biennial budget and revenue requirements, and the rates and charges necessary to support the revenue requirements. A public hearing was held on March 13, 2018. All documents provided to the Board in connection with its April 2018 Board action were posted online, along with other supporting and background material, at: http://www.mwdh2o.com/WhoWeAre/Pages/proposed-budget-rates.aspx and http://www.mwdh2o.com/WhoWeAre/Pages/proposed-budget-rates.aspx and http://mwdh2o.com/WhoWeAre/Pages/FYs-2018-19-2019-20-proposed-property-tax-rates.aspx. The documents remain available in support of the charges proposed in this letter.

The RTS Charge is set to recover capital costs of the portion of Metropolitan's system that is available to provide emergency storage and available capacity during outages and hydrologic variability. The Capacity Charge is set to recover peaking capacity costs on Metropolitan's distribution system. In adopting the biennial budget on April 10, 2018, the Board determined the amount of revenue to be raised by the RTS Charge and the Capacity Charge, collectively, would be \$163.9 million in CY 2019, and \$167.6 million in CY 2020. At that meeting, the Board approved the resolutions to adopt the RTS and Capacity Charges for CY 2019. Staff now proposes to the Board resolutions to adopt the RTS Charge (**Attachment 1**) and the Capacity Charge (**Attachment 2**) for CY 2020, at the amounts previously determined by the Board through its approval of the biennial budget, rates, and charges on April 10, 2018. The proposed resolutions provide an estimate of each member agency's share of the RTS and Capacity Charge in 2020 and include an Engineer's Report that also supports the continuation of the Standby Charge will be presented to the Board for consideration at its regular May meeting. The notice to member agencies of the proposed adoption of the RTS and Capacity Charges for 2020 and continuation of the Standby Charge for FY 2019/20 (**Attachment 3**) was provided to member agencies via email on February 6, 2019.

Policy

Metropolitan Water District Act Section 61: Ordinances, Resolutions and Orders

Metropolitan Water District Act Section 133: Fixing of Water Rates

Metropolitan Water District Act Section 134: Adequacy of Water Rates; Uniformity of Rates

Metropolitan Water District Act Section 134.5: Water Standby or Availability of Service Charge

Metropolitan Water District Administrative Code Section 4301(a): Cost of Service and Revenue Requirement

Metropolitan Water District Administrative Code Section 4304: Apportionment of Revenues and Setting of Water Rates

By Minute Item 51163, dated April 10, 2018, the Board approved the biennial budget for fiscal years 2018/19 and 2019/20

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action is not defined as a project under CEQA because it involves continuing administrative activities, such as general policy and procedure making (Section 15378(b)(2) of the State CEQA Guidelines). In addition, the proposed action is not defined as a project under CEQA because it involves other government fiscal activities, which do not involve any commitment to any specific project which may result in a potentially significant physical impact on the environment (Section 15378(b)(4) of the State CEQA Guidelines). Finally, where it can be seen with certainty that there is no possibility that the proposed action may have a significant impact on the environment, the action is not subject to CEQA pursuant to Section 15061(b)(3) of the State CEQA Guidelines.

CEQA determination for Option #2:

None required.

Board Options

Option #1

Approve resolutions fixing and adopting a Readiness-to-Serve Charge and a Capacity Charge for calendar year 2020.

Fiscal Impact: Revenues from fixed charges of \$166.5 million in calendar year 2020, which is slightly lower than the amount estimated in the adopted biennial budget for FYs 2018/19 and 2019/20 due to lower peaks than projected for the Capacity Charge.

Business Analysis: This option involves adoption of charges that result in fixed revenues of \$166.5 million from the RTS Charge and the Capacity Charge in calendar year 2020. Fixed revenues in an amount of \$167.6 million from these charges were reflected in the adopted biennial budget for FYs 2018/19 and 2019/20.

Option #2

Do not approve resolutions fixing and adopting a Readiness-to-Serve Charge and a Capacity Charge for calendar year 2020. Direct staff to set a process to revisit FY 2019/20 of the biennial budget and the water rates for CY 2020 to address the resulting \$167.6 million deficit and report back on the proposed process to the Board at its regular May 2019 meeting.

Fiscal Impact: Net revenue deficit will depend on any revised budget and water charges.

Business Analysis: This option would result in the loss of fixed revenues which were reflected in the adopted budget for FY 2019/20 and the water rates for CY 2020. Loss of the budgeted fixed revenue would require staff to revisit the current budget and water rates to ensure such rates will result in revenue which will pay the expenses of the district.

Staff Recommendation

Option #1

3/25/2019 June M. Skillman Date Interim Assistant General Manager/ Chief Financial Officer 3/27/2019 Date Jeffre **v**ight General Manage

- Attachment 1 Resolution Fixing and Adopting a Readiness-to-Serve Charge Effective January 1, 2020
- Attachment 2 Resolution Fixing and Adopting a Capacity Charge Effective January 1, 2020
- Attachment 3 Notice to Member Agencies of Proposed Adoption of Readiness-to-Serve Charge and Capacity Charge for 2020 and Continuation of Standby Charge

Ref# cfo12667760//

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

RESOLUTION _____

RESOLUTION OF THE BOARD OF DIRECTORS OF THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA FIXING AND ADOPTING A READINESS-TO-SERVE CHARGE EFFECTIVE JANUARY 1, 2020

The Board of Directors of The Metropolitan Water District of Southern California (the "Board") hereby finds that:

1. Pursuant to Resolution 8774, the Board of The Metropolitan Water District of Southern California ("Metropolitan") approved a rate structure proposal at its meeting on October 16, 2001, described in Board Letter 9-6, including a Readiness-To-Serve ("RTS") Charge; and

2. Providing firm revenue sources is a goal of such rate structure; and

3. The amount of revenue to be raised by the RTS Charge shall be as determined by the Board and allocation of the RTS Charge among member public agencies ("member agencies") shall be in accordance with the method established by the Board; and

4. The RTS Charge is a charge fixed and adopted by Metropolitan and charged to its member agencies, and is not a fee or charge imposed upon real property or upon persons as an incident of property ownership; and

5. Metropolitan has legal authority to fix and adopt such RTS Charge as a water rate pursuant to Sections 133 and 134 of the Metropolitan Water District Act (the "Act"), and to fix it as an availability of service charge pursuant to Section 134.5 of the Act; and

6. Under authority of Sections 133 and 134 of the Act, the Board has the authority to fix the rate or rates for water as will result in revenue which, together with other revenues, will pay Metropolitan's operating expenses and provide for payment of other costs, including payment of the interest and principal of Metropolitan's non-tax funded bonded debt; and

7. The RTS Charge recovers the capital expenditures for infrastructure projects needed to provide emergency storage capacity and available capacity needed to maintain reliable deliveries during outages and service interruptions and during periods of hydrologic variability; and

8. Pursuant to Resolution 8329, adopted by the Board on July 9, 1991 and Resolution 9199, adopted by the Board on March 8, 2016, and as each is thereafter amended and supplemented, proceeds of the RTS Charge and other revenues from the sale or availability of water are pledged to the payment of Metropolitan's outstanding revenue bonds and to the payment of Metropolitan's outstanding subordinate revenue bonds and to be issued pursuant to Resolution 8329 and Resolution 9199; and

9. Under authority of Section 134.5 of the Act, an RTS Charge levied as an availability of service charge may be collected from the member agencies within Metropolitan, or may continue to be collected as a standby charge against individual parcels within Metropolitan's service area; and

10. Certain member agencies of Metropolitan have opted in prior fiscal years to provide collection of all or a portion of their RTS Charge obligation through a Metropolitan water standby charge ("Standby Charge") levied on parcels within those member agencies; and

11. Under authority of Section 134.5 of the Act, the Standby Charge may continue to be levied on each acre of land or each parcel of land less than an acre within Metropolitan to which water is made available for any purpose by Metropolitan, whether the water is actually used or not; and

12. Metropolitan is willing to comply with the requests of member agencies opting to have Metropolitan continue to levy the Standby Charge within their respective territories, on the terms and subject to the conditions contained herein; and

13. In San Diego County Water Authority v. Metropolitan Water District of Southern California, et al., San Francisco Superior Court Case Nos. CPF-16-515282, CPG-17-563350, and CPF-18-516389 (the "2016, 2017, and 2018 Cases", collectively), the San Diego County Water Authority challenged Metropolitan's water charges adopted on April 12, 2016, April 11, 2017, and on April 10, 2018, respectively, and also challenged Metropolitan's rates. Metropolitan is defending such challenges; and

14. Metropolitan maintains that its rates and charges are appropriate. There is no final judgment in the identified cases and Metropolitan does not anticipate a final judgment in CY 2020; and

15. On April 10, 2018, the Board considered the rates and charges presented by the General Manager and approved the biennial budget for fiscal years 2018/19 and 2019/20 and adopted recommended water rates for calendar years 2019 and 2020 and charges for calendar year 2019, and received information and documents available at http://www.mwdh2o.com/WhoWeAre/Pages/proposed-budget-rates.aspx and http://www.mwdh2o.com/WhoWeAre/Pages/proposed-budget-rates.aspx and http://www.mwdh2o.com/WhoWeAre/Pages/proposed-budget-rates.aspx and http://www.mwdh2o.com/WhoWeAre/Pages/proposed-budget-rates.aspx and http://www.mwdh2o.com/WhoWeAre/Pages/proposed-budget-rates.aspx and

16. In approving the Proposed Biennial Budget and adopting the rates and charges on April 10, 2018, the Board determined the amount of revenue to be raised by the RTS Charge in calendar year 2020 to be \$136,000,000, based on information and documents available at http://www.mwdh2o.com/WhoWeAre/Pages/proposed-budget-rates.aspx and http://www.mwdh2o.com/WhoWeAre/Pages/FYs-2018-19-2019-20-proposed-property-tax-rates.aspx and

17. Written notice of intention of Metropolitan's Board to consider and take action at its regular meeting of April 9, 2019, to adopt Metropolitan's RTS Charge for calendar year 2020 was given to each of Metropolitan's member agencies; and

18. The RTS Charge for calendar year 2020 applicable to each member agency is reflected in the Engineer's Report dated April 2019 and its method of its calculation and the specific data used in its determination are as specified in the updated cost of service report; and

19. Each of the meetings of the Board were conducted in accordance with the Brown Act (commencing at Section 54950 of the Government Code), for which due notice was provided and at which quorums were present and acting throughout;

NOW, THEREFORE, the Board does hereby resolve, determine and order as follows:

Section 1. That the Board hereby fixes and adopts an RTS Charge for the period from January 1, 2020 through December 31, 2020.

Section 2. That said RTS Charge shall be in an amount sufficient to provide for payment of debt service not paid from *ad valorem* property taxes, and other appropriately allocated costs, for capital expenditures for infrastructure projects needed to provide emergency storage capacity and available capacity needed to maintain reliable deliveries during outages and service interruptions and during periods of hydrologic variability.

Section 3. That such RTS Charge for January 1, 2020 through and including December 31, 2020 shall be in the amounts specified in Section 4, which shall be determined on a historic basis for each acre-foot of water, excluding water sales of reclaimed water under the Local Projects Program, and Local Resources Program, groundwater under the Groundwater Recovery Program, and Local Resources Program, groundwater under the Groundwater Recovery Program, and Local Resources Program, groundwater, included in Metropolitan's average water deliveries to its member agencies for the applicable ten-year period identified in Section 4. The aggregate RTS Charge for the period from January 1, 2020 through and including December 31, 2020 shall also be as specified in Section 4.

Section 4. That the RTS Charge for January 1, 2020 through December 31, 2020 shall be allocated among the member agencies in proportion to the average of deliveries through Metropolitan's system (in acrefeet) to each member agency during the ten-year period ending June 30, 2018. Metropolitan sales of reclaimed water under the Local Projects Program, groundwater under the Groundwater Recovery Program, and deliveries under the Replenishment and Interim Agricultural Water Service Programs are not included in the RTS Charge water sales calculation. The allocation of the RTS Charge among member agencies is based on sales data recorded by Metropolitan and shall be conclusive in the absence of manifest error.

The amount of the RTS Charge to be charged to each member agency effective January 1, 2020, is as follows:

Schedule 1

	1		
Member Agency	Rolling Ten-Year Average Firm Deliveries (Acre-Feet) FY2008/09 - FY2017/18	RTS Share	12 months @ \$136 million per year (1/20-12/20)
Anaheim	18,484.7	1.19%	\$ 1,616,455
Beverly Hills	10,636.8	0.68%	930,169
Burbank	12,505.3	0.80%	1,093,567
Calleguas MWD	100,327.3	6.45%	8,773,446
Central Basin MWD	45,375.1	2.92%	3,967,973
Compton	1,052.6	0.07%	92,048
Eastern MWD	95,589.5	6.15%	8,359,134
Foothill MWD	8,761.7	0.56%	766,195
Fullerton	8,520.9	0.55%	745,138
Glendale	17,219.1	1.11%	1,505,780
Inland Empire Utilities Agency	58,335.2	3.75%	5,101,311
Las Virgenes MWD	20,859.4	1.34%	1,824,118
Long Beach	31,074.3	2.00%	2,717,393
Los Angeles	298,801.6	19.21%	26,129,675
Municipal Water District of Orange County	214,227.5	13.77%	18,733,819
Pasadena	19,306.1	1.24%	1,688,285
San Diego County Water Authority	287,538.4	18.49%	25,144,728
San Fernando	35.7	0.00%	3,122
San Marino	854.7	0.05%	74,742
Santa Ana	11,281.3	0.73%	986,530
Santa Monica	6,403.0	0.41%	559,931
Three Valleys MWD	62,968.2	4.05%	5,506,459
Torrance	16,507.9	1.06%	1,443,587
Upper San Gabriel Valley MWD	22,639.8	1.46%	1,979,811
West Basin MWD	116,023.0	7.46%	10,146,008
WesternMWD	69,876.5	4.49%	6,110,577
MWD Total	1,555,205.6	100.00%	\$ 136,000,000
Totals may not foot due to rounding			

Calendar Year 2020 Readiness-To-Serve Charge

The General Manager shall establish and make available to member public agencies procedures for administration of the readiness-to-serve charge, including filing and consideration of applications for reconsideration of their respective readiness-to-serve charge. The General Manager shall review any applications for reconsideration submitted in a timely manner. The General Manager shall also establish reasonable procedures for the filing of appeals from his determination.

Section 5. That the RTS Charge specified in Schedule 1, together with other revenues from Metropolitan's water rates, other charges, ad valorem property taxes, and other miscellaneous revenue, does not exceed the reasonable and necessary cost of providing Metropolitan's water service for which the rates and charges are made, or of conferring the benefit provided, and is fairly apportioned to each member agency as specified in Section 6 below.

Section 6. That water conveyed through Metropolitan's system for the purposes of water transfers, exchanges or other similar arrangements shall be included in the calculation of a member agency's rolling tenyear average firm demands used to allocate the RTS Charge.

Section 7. That the RTS Charge and the amount applicable to each member agency, the method of its calculation, and the specific data used in its determination are as specified in the adopted rates and charges to be

effective January 1, 2020, which forms the basis of the RTS Charge, and the corresponding 2018 Cost of Service Report. The adopted rates and charges and cost of service reports are on file and available for review by interested parties at Metropolitan's headquarters.

Section 8. That except as provided in Section 10 below with respect to any RTS Charge collected by means of the Standby Charge, the RTS Charge shall be due monthly, quarterly or semiannually as agreed upon by Metropolitan and the member agency.

Section 9. That such RTS Charge may, at the request of any member agency which elected to utilize the Standby Charge as a mechanism for collecting the RTS Charge obligation in fiscal year 1996/97, be collected by continuing the Standby Charge at rates not to exceed rates levied in fiscal year 1996/97 upon land within Metropolitan's (and such member agency's) service area to which water is made available by Metropolitan for any purpose, whether such water is used or not.

Section 10. That the Standby Charge shall be collected on the tax rolls, together with the *ad valorem* property taxes which are levied by Metropolitan for the payment of pre-1978 voter-approved indebtedness. Any amounts so collected shall be applied as a credit against the applicable member agency's RTS Charge obligation. After such member agency's RTS Charge allocation is fully satisfied, any additional collections shall be credited to other outstanding obligations of such member agency to Metropolitan that funds the capital costs or maintenance and operation expenses for Metropolitan's water system, or future RTS Charge obligations of such agency. Notwithstanding the provisions of Sections 8 and 9 above, any member agency requesting to have all or a portion of its RTS Charge obligation collected through Standby Charge levies within its territory as provided herein shall pay any portion not collected through net Standby Charge collections to Metropolitan within 50 days after Metropolitan issues an invoice for remaining RTS Charge obligations for such member agency, as provided in Administrative Code Section 4507.

Section 11. That notice is hereby given to the public and to each member agency of The Metropolitan Water District of Southern California of the intention of Metropolitan's Board to consider and take action at its regular meeting to be held May 14, 2019 (or such other date as the Board shall hold its regular meeting in such month), on the General Manager's recommendation to continue the Standby Charge for fiscal year 2019/20 under authority of Section 134.5 of the Act on land within Metropolitan at rates not to exceed rates, per acre of land, or per parcel of land less than an acre, levied in fiscal year 1996/97 upon land within Metropolitan's (and such member agency's) service area. Such Standby Charge will be continued as a means of collecting the RTS Charge.

Section 12. That no failure to collect, and no delay in collecting, any Standby Charge shall excuse or delay payment of any portion of the RTS Charge when due.

Section 13. That the RTS Charge is fixed and adopted by Metropolitan as a rate or charge on its member agencies, and is not a fee or charge imposed upon real property or upon persons as incidents of property ownership, and the Standby Charge is collected within the respective territories of electing member agencies as a mechanism for collection of the RTS Charge. In the event that the Standby Charge, or any portion thereof, is determined to be an unauthorized or invalid fee, charge or assessment by a final judgment in any proceeding at law or in equity, which judgment is not subject to appeal, or if the collection of the Standby Charge shall be permanently enjoined and appeals of such injunction have been declined or exhausted, or if Metropolitan shall determine to rescind or revoke the Standby Charge, then no further Standby Charge shall be collected within any member agency and each member agency which has requested continuation of the Standby Charge as a means of collecting its RTS Charge obligation shall pay such RTS Charge obligation in full, as if continuation of such Standby Charge had never been sought.

Section 14. That the General Manager and the General Counsel are hereby authorized to do all things necessary and desirable to accomplish the purposes of this Resolution, including, without limitation, the commencement or defense of litigation.

Section 15. That if any provision of this Resolution or the application to any member agency, property or person whatsoever is held invalid, that invalidity shall not affect other provisions or applications of this Resolution which can be given effect without the invalid portion or application, and to that end the provisions of this Resolution are severable.

Section 16. That the General Manager is hereby authorized and directed to take all necessary action to satisfy relevant statutes requiring notice by mailing or by publication.

Section 17. That the Board Executive Secretary is hereby directed to transmit a certified copy of this Resolution to the presiding officer of the governing body of each member agency.

I HEREBY CERTIFY that the foregoing is a full, true and correct copy of a Resolution adopted by the Board of Directors of The Metropolitan Water District of Southern California, at its meeting held on April 9, 2019.

Secretary of the Board of Directors of the Metropolitan Water District of Southern California

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA ENGINEER'S REPORT

PROGRAM TO LEVY READINESS-TO-SERVE CHARGE EFFECTIVE JANUARY 1, 2020,

INCLUDING LOCAL OPTION FOR STANDBY CHARGE, DURING FISCAL YEAR 2019/20

April 2019

BACKGROUND

The Metropolitan Water District of Southern California is a public agency with a primary purpose to provide imported wholesale water service for domestic and municipal uses to its 26 member public agencies. More than 18 million people reside within Metropolitan's service area, which covers approximately 5,200 square miles and includes portions of the six counties of Los Angeles, Orange, Riverside, San Bernardino, San Diego and Ventura. Metropolitan historically provided between 40 and 60 percent of the water used within its service area. To supply Southern California with reliable and safe water, Metropolitan imports water from the Colorado River and Northern California to supplement its member agencies' local supplies, and helps its member agencies develop increased water conservation, recycling, storage and other local resource programs.

REPORT PURPOSES

As part of its role as a regional imported water supplier, Metropolitan builds capital facilities and implements water management programs that ensure the delivery of reliable high quality water supplies throughout its service area. The purpose of this report is to: (1) identify and describe those facilities and programs that will be financed in part by Metropolitan's Readiness-to-Serve (RTS) Charge, and (2) describe the method and basis for levying Metropolitan's Standby Charge for those agencies electing to continue to collect a portion of their RTS obligation through Metropolitan's Standby Charge in fiscal year 2019/20. Because the Standby Charge is levied and collected on a fiscal year basis the calculations in this report also are for the fiscal year, even though the RTS Charge is levied on a calendar year basis. The RTS Charge for calendar year 2019 was adopted by Metropolitan's Board on April 10, 2018 and the RTS Charge for 2020 will be considered by the Board on April 9, 2019. The Board will consider the continuation of the Standby Charge in fiscal year 2019/20 on May 14, 2019.

Metropolitan levies the RTS Charge on its member agencies to recover a portion of the capital costs including debt service on bonds issued to finance capital facilities needed to meet demands on Metropolitan's system for emergency storage and available capacity to meet outages and hydrologic variability. The Standby Charge is collected from parcels of land within Metropolitan's member agencies that have elected to collect all or a portion of their RTS obligation through the Standby Charge, as a method of recovering the costs of special benefits conferred on parcels within their service area. The RTS Charge will partially pay for the facilities and programs described in this report, namely, the amount attributable to the portions providing emergency storage and available capacity to meet outages and hydrologic variability. The Standby Charge, when collected, will be utilized solely for capital payments and debt service on the capital facilities funded by the RTS Charge, as identified in this report.

The budgeted total RTS revenue for fiscal year 2019/20 is \$134.5 million, of which \$43.7 million is estimated to be collected via the Standby Charge.

METROPOLITAN'S RESPONSE TO FLUCTUATING WATER DEMANDS AND AVAILABILITY OF WATER SOURCES

Metropolitan's member agencies have widely differing imported water supply needs and the availability of imported water supply from various sources also varies widely. Some agencies have no local water resources and rely on Metropolitan for 100 percent of their annual water needs. Other agencies have adequate local surface supplies and storage and/or groundwater basins that provide them with the majority of their water supplies during wet and average years. However, during dry periods and/or based on a variety of other factors, these agencies rely on Metropolitan to make up any shortfalls in local water supplies. Similar coordination challenges arise in managing water available from Metropolitan's various water supply sources.

To respond to fluctuating demands for water, Metropolitan and its member agencies collectively examined the available local and imported resource options in order to develop a least-cost plan that meets the reliability and quality needs of the region. The product of this intensive effort was an Integrated Resources Plan (IRP) for achieving a reliable and affordable water supply for Southern California. The major objective of the IRP was to develop a comprehensive water resources plan that ensures (1) reliability, (2) affordability, (3) water quality, (4) diversity of supply, and (5) adaptability for the region, while recognizing the environmental, institutional, and political constraints to resource development. As these constraints change over time, the IRP is periodically revisited and updated by Metropolitan and the member agencies to reflect current conditions. To meet the water supply needs of the region, Metropolitan continues to identify and develop additional water supplies to maintain the reliability of the imported water supply and delivery system to its member agencies. These efforts include the construction of capital facilities and implementation of demand management programs. The demand management programs offset the need to transport or store additional water into or within the Metropolitan service area, thus avoiding and deferring the need for additional infrastructure construction, operation, and maintenance, saving such costs; and free up capacity in the system.

CAPITAL FACILITIES - CONVEYANCE AND DISTRIBUTION

Metropolitan's total water system has been built over time to meet the widely differing needs of its member agencies and the various sources of water available to Metropolitan. To meet those needs, Metropolitan's water delivery system is comprised of three basic conveyance and delivery components that form one integrated water system:

- State Water Project (SWP);
- Colorado River Aqueduct (CRA); and
- Distribution System

The system draws on diverse supply sources, transports water across a large part of the State and distributes water in six counties, where member agencies or their retail sub-agencies serve an estimated 18.9 million people. The CRA and the California Aqueduct of the SWP convey imported water into the Metropolitan service area. This water is then delivered to Metropolitan's member agencies via a regional network of canals, pipelines, and appurtenant facilities, which constitute the Distribution System. Supply, treatment, and storage facilities augment the Distribution System. The system is an interconnected regional conveyance and distribution system with the ability to deliver supplies from each of the SWP, the CRA, and its storage portfolio throughout its vast and diverse service area to almost every member agency. This flexibility derives from the capital facilities and provides local and system-wide benefits to all member agencies, as the facilities directly contribute to the reliable delivery of water supplies throughout Metropolitan's service area. As the 2007 Integrated Area Study (IAS) emphasized, regional system flexibility is a key component of overall reliability.¹ Metropolitan must maintain operational flexibility—the ability to respond to short-term changes in regional water supply, water quality, treatment requirements, and member agency demands. Metropolitan must maintain delivery flexibility—the ability to maintain partial to full water supply deliveries during planned and unplanned facility outages. Metropolitan is also required by state statute to serve as large an area as is determined to be reasonable and practical with SWP water; and where a blend of water sources is served, to have the objective to the extent determined to be reasonable and practical, that at least 50 percent of the blend be SWP water. (MWD Act, Sec. 136.)

Operational flexibility has been achieved by creating an interconnected regional delivery network integrating the SWP and the CRA conveyance systems with the Distribution System. This integrated network allows Metropolitan to incorporate supply from the SWP and the CRA with a diverse portfolio of geographically dispersed storage programs, including the Central Valley groundwater storage programs, carryover storage in San Luis Reservoir, flexible storage capacity in Castaic Lake and Lake Perris, Lake Mead storage, the Desert Water Agency/Coachella Valley Water District Advanced Delivery account, in-basin surface storage in Diamond Valley Lake and Lake Mathews, and in-basin groundwater Conjunctive Use Programs. This integrated, regional network also allows Metropolitan to move supplies throughout the system in response to service demands, supply availability and operational needs.

Therefore, each of Metropolitan's integrated conveyance, distribution and storage assets contributes to regional system reliability. It is fair and reasonable for member agencies and all property owners within the service area to share the cost of developing and maintaining these assets because they all benefit from regional system reliability.

State Water Project Description and Benefits

One of Metropolitan's two major sources of water is the SWP.² The SWP is the largest state-built, multipurpose, user-financed water project in the country. It was designed and built primarily to deliver water, but also provides flood control, generates power for pumping, is used for recreation, and enhances habitat for fish and wildlife.

The SWP consists of a complex system of dams, reservoirs, power plants, pumping plants, canals and aqueducts to deliver water. See Figure 1. SWP water consists of water from rainfall and snowmelt runoff that is captured and stored in SWP conservation facilities and then delivered through SWP transportation facilities to water agencies and districts located throughout the Upper Feather River, Bay Area, Central Valley, Central Coast, and Southern California. In addition to the delivery of SWP water, the SWP is also used to convey transfers of SWP water and non-SWP water. Metropolitan receives water from the SWP through the California Aqueduct, which is 444 miles long, and at four delivery points near the northern and eastern boundaries of Metropolitan's service area.

¹ 2007 Integrated Area Study, Report No. 1317, pg. 2-10.

² For historical and current information regarding the SWP, refer to Bulletin 132, published periodically by DWR since 1963. The most recently published Bulletin is Bulletin 132-16 dated June 2017 and titled "Management of the California State Water Project.



Figure 1. Facilities of the State Water Project

The SWP is managed and operated by the Department of Water Resources (DWR). All water supply-related capital expenditures and operations, maintenance, power and replacement (OMP&R) costs associated with the SWP conservation and transportation facilities are paid for by 29 agencies and districts, known collectively as the State Water Contractors (Contractors). The Contractors are participants in the SWP through long-term contracts for the delivery of SWP water and use of the SWP transportation facilities.

In 1960, Metropolitan signed the first water supply contract (as amended, the State Water Contract) with DWR. In addition to SWP water, Metropolitan also obtains water from water transfers, groundwater banking and exchange programs delivered through the California Aqueduct.

Since 1960, the SWP system has been extended, improved, and refurbished. All such costs are payable by the Contractors. On October 10, 2017, Metropolitan's Board voted to support financing for the California WaterFix project. California WaterFix is a comprehensive science-based solution proposed by the state to modernize critical water delivery infrastructure of the SWP. At the time of the Metropolitan Board's approval, the project proposed construction of new water intakes in the north Delta and two 40-foot diameter tunnels under the Delta terminating at a forebay in the south Delta. The estimated cost of the project, at the time of Metropolitan Board's approval, was \$17 billion in 2017 dollars, with Metropolitan's share about 26% of that, or \$4.3 billion. Metropolitan's biennial budget for fiscal years 2018/19 and 2019/20 includes costs of \$4 million and \$13 million for each fiscal year, respectively. On July 10, 2018, the Metropolitan Board approved increased funding for up to about a 65% share of the project. The approved increased funding of the project was not included in the biennial budget for fiscal years 2018/19 and 2019/20 and is not included in the costs considered in this report.

All Metropolitan member agencies benefit from the SWP system and its supplies, which can be distributed to all member agencies. Metropolitan's member agencies distribute that water to parcels as retail water providers or as wholesale water providers to retail agencies. In this way, the SWP water that Metropolitan delivers to its member agencies contributes to water available to existing and future end users throughout Metropolitan's service area. The cost of the net capital payments for the SWP, with the costs of California WaterFix and less the portion covered by property taxes in fiscal year 2019/20 is \$40.6 million, as shown in Table 1. Real property throughout Metropolitan's service area benefits from the availability of the SWP facilities and its integration into Metropolitan's system and therefore all such costs may be attributed to such parcels. However, Metropolitan's Standby Charge collects only \$43.7 million of the total \$305.7 million system costs, representing 14% of the total system costs.

Colorado River Aqueduct Description and Benefits

Metropolitan's other major source of water is the CRA. Metropolitan was established to obtain an allotment of Colorado River water, and its first mission was to construct and operate the CRA. The CRA consists of five pumping plants, 450 miles of high voltage power lines, one electric substation, four regulating reservoirs, and 242 miles of aqueducts, siphons, canals, conduits and pipelines terminating at Lake Mathews in Riverside County. See Figure 2. Metropolitan owns, operates, and manages the Colorado River Aqueduct. Metropolitan is responsible for operating, maintaining, rehabilitating, and repairing the CRA, and is responsible for obtaining and scheduling energy resources adequate to power pumps at the CRA's five pumping stations.

Metropolitan incurs capital and operations and maintenance expenditures to support the CRA activities. The direct costs of the CRA activities include labor, materials and supplies, as well as outside services to provide repair and maintenance, and professional services. The CRA activities benefit from Water System Operations support services and management supervision, as well as Administrative and General activities of Metropolitan. Metropolitan finances past, current and future capital improvements on the CRA, and capitalizes those improvements as assets. The costs of Metropolitan's capital financing activities are apportioned to cost functions,

such as the CRA Conveyance and Aqueduct function. The capital cost of the Colorado River Aqueduct and Inland Feeder in fiscal year 2019/20 is \$82.7 million, and is included in the Non-SWP Conveyance System line item in Table 1. Real property throughout Metropolitan's service area benefits from the availability of the CRA facilities and its integration into Metropolitan's system and therefore all such costs may be attributed to such parcels. However, Metropolitan's Standby Charge collects only \$43.7 million of the total \$305.7 million system costs, representing 14% of the total system costs.

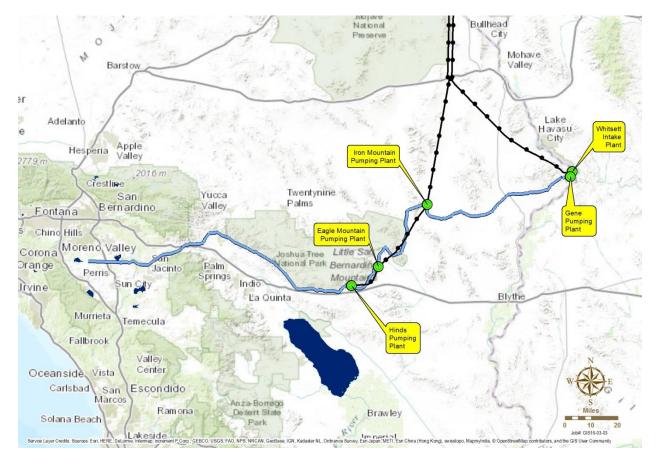


Figure 2. Colorado River Aqueduct

Metropolitan's Conveyance and Distribution System Benefits

For purposes of this report, components of the conveyance system are considered to include only those major trunk facilities that transport water from primary supply sources to either regional storage facilities or feeder lines linked to the primary conveyance facilities. See Figure 3. For a list of Metropolitan's conveyance facilities within its service area, see Table 3. All other water transport facilities, including pipelines, feeders, laterals, canals and aqueducts, are considered to be distribution facilities. Distribution facilities can be further identified in that they generally have at least one connection to a member agency's local distribution system. For a list of Metropolitan's distribution facilities, see Table 3.

All water transport facilities not specifically identified as part of the regional conveyance system are considered to be distribution facilities (Distribution System). While conveyance and aqueduct system components are regional in nature and generally do not link directly to local agency distribution systems, Distribution System facilities do ultimately connect to local agency systems. As a result, these facilities rely on conveyance and aqueduct facilities to import water from regional supply sources. The Distribution System is a complex network of facilities which routes water from the CRA and SWP to the member agencies. Beginning at the terminal delivery points of the CRA and SWP, Metropolitan's Distribution System includes approximately 775 miles of pipelines, feeders, and canals. Distribution System operations are coordinated from the Operations Control Center in Eagle Rock. The control center plans, schedules, and balances daily water operations in response to member agency demands and the operational limits of the system as a whole. Metropolitan's storage and treatment facilities augment the Distribution System. Metropolitan operates and maintains separate untreated and treated distribution facilities.

Figure 3. Metropolitan's Distribution and Storage Facilities



Metropolitan has an ongoing commitment, through physical system improvements and the maintenance and rehabilitation of existing facilities, to maintain the reliable delivery of water throughout the entire service area. System improvement projects include additional conveyance and distribution facilities to maintain the dependable delivery of water supplies, provide alternative system delivery capacity, and enhance system operations. Conveyance and distribution system improvement benefits also include projects to upgrade obsolete facilities or equipment, or to rehabilitate or replace facilities or equipment. These projects are needed to enhance system operations, comply with new regulations, and maintain a reliable distribution system. A list of conveyance and

distribution system facilities is provided in Table 3 along with the fiscal year 2019/20 estimated conveyance and distribution system benefits. The capital cost of the Distribution System in fiscal year 2019/20 is \$78.6 million, and is included in the Distribution System line item in Table 1. Real property throughout Metropolitan's service area benefits from the availability of the Distribution System and its integration into Metropolitan's system and therefore all such costs may be attributed to such parcels. However, Metropolitan's Standby Charge collects only \$43.7 million of the total \$305.7 million system costs, representing 14% of the total system costs.

CAPITAL FACILITIES – WATER STORAGE

System Storage Benefits

The Metropolitan system, for purposes of meeting demands during times of shortage, regulating system flows, and ensuring system reliability in the event of a system outage, provides over 1,000,000 acre-feet of system storage capacity. Diamond Valley Lake provides 810,000 acre-feet of that storage capacity, effectively doubling Southern California's previous surface water storage capacity. Other existing imported water storage available to the region consists of Metropolitan's raw water reservoirs, a share of the SWP's raw water reservoirs in and near the service area, and the portion of the groundwater basins used for conjunctive-use storage.

Water stored in system storage during above average supply conditions (surplus) provides a reserve against shortages when supply sources are limited or disrupted. Water storage also preserves Metropolitan's capability to deliver water during scheduled maintenance periods, when conveyance facilities must be removed from service for rehabilitation, repair, or maintenance. The benefits of these capital facilities are both local and system-wide, as the facilities directly contribute to the reliable delivery of water supplies throughout Metropolitan's service area. The capital costs of water storage in fiscal year 2019/20 is \$103.8 and, as shown in Table 1. Real property throughout Metropolitan's service area benefits from the availability of the storage capacity throughout the service area and its integration into Metropolitan's system and therefore all such costs may be attributed to such parcels. However, Metropolitan's Standby Charge collects only \$43.7 million of the total \$305.7 million system costs, representing 14% of the total system costs.

DEMAND MANAGEMENT PROGRAMS

Demand management programs include local water resource development programs and water conservation programs. These demand management programs incentivize the development of local water supplies and the conservation of water to reduce the reliance on the delivery of imported water. These programs are implemented after the service connection between Metropolitan and its member agencies and, as such, do not add any water to the quantity Metropolitan obtains from other sources or to Metropolitan's own supply. Rather, the effect of these downstream programs in terms of water supply is to produce or conserve a local supply of water for the local agencies. The financial effect for Metropolitan is to avoid and defer the need for additional infrastructure construction, operation, and maintenance, thus contributing to infrastructure savings for all users of the system. The programs also free up conveyance capacity in the system to the benefit of all system users.

Therefore, investments in demand side management programs like conservation, water recycling and groundwater recovery help to increase regional water supply reliability, reduce demands for imported water supplies, decrease the burden on the district's infrastructure and reduce system costs, and free up conveyance capacity to the benefit of all system users. The total budgeted costs of the demand management programs in fiscal year 2019/20 is \$85.8

million, but are not included in Table 1 for this report. Staff is currently reviewing the demand management costs to determine the most appropriate functionalization of those costs. Thus, the portion of the demand management program costs that should be functionalized as conveyance, storage, and distribution infrastructure costs for purposes of Table 1 has not yet been determined. However, even without such costs, Metropolitan's infrastructure costs exceed the revenue collected pursuant to the RTS Charge.

Local Resources Program Benefits

In 1982, Metropolitan's Board adopted the Local Resources Program (LRP) with the goal of developing local water resources in a cost-efficient manner. Financial incentives are provided to member agency-sponsored projects that best help the region achieve its local resource production goals of restoring degraded groundwater resources for potable use as well as developing recycled water and seawater desalination supplies. These projects provide new water supplies within Metropolitan's service area, which, as explained, help to increase regional water supply reliability, reduce demands for imported water supplies, decrease the burden on the district's infrastructure and reduce system costs, and free up conveyance capacity to the benefit of all system users.

In 1999, the California Legislature and Governor recognized the regional benefit of demand management programs by enacting Senate Bill 60, which states: "It is the intent of the Legislature that the Metropolitan Water District of Southern California expand water conservation, water recycling, and groundwater recovery efforts" and "The Metropolitan Water District of Southern California shall place increased emphasis on sustainable, environmentally sound, and cost-effective water conservation, recycling, and groundwater storage and replenishment measures." (MWD Act, Sec. 130.5.)

Combined production from participating recycling and groundwater recovery projects produced approximately 215,000 acre-feet of water in fiscal year 2017/18 with financial incentive payments of about \$33 million. Regional recycling, recovered groundwater, and desalinated seawater production are projected to be about 660,000 acre-feet per year, by year 2025. An estimate of the costs of the program in fiscal year 2019/20 as measured by Metropolitan's estimated incentive payments for recycling and groundwater recovery projects is shown in Table 2.

Water Conservation Benefits

Metropolitan actively promotes water conservation programs within its service area as a cost-effective strategy for ensuring the long-term reliability of supplies and as a means of reducing the need to increase imported supplies and offset the need to transport or store additional water into or within the Metropolitan service area. Through the Conservation Credits Program, Metropolitan provides financial incentives in regional conservation programs and also reimburses local agencies for a share of their costs of implementing their own conservation programs. Since fiscal year 1990/91, Metropolitan has spent over \$782 million in financial incentives to support regional and local conservation projects.

The actual conservation of water takes place at the retail consumer level. Regional conservation approaches have proven to be effective at reaching retail consumers throughout the service area and successfully implementing water saving devices, programs and practices. Regional investments in demand management programs, of which conservation is a key part along with local supply programs, benefit all member agencies regardless of project location. These programs help to increase regional water supply reliability, reduce demands for imported water supplies, decrease the burden on the district's infrastructure and reduce system costs, and free up conveyance capacity to the benefit of all system users. Thus, water conservation, as a demand management program, contributes to transportation infrastructure savings for all users of the regional water system.

Through fiscal year 2017/18, Metropolitan's Conservation Credits Program has saved over 2,848,000 acre-feet since inception. In order to comply with the Governor's mandate of reducing demand by 20 percent by the year 2020, Metropolitan has continued to increase its conservation efforts to meet that mandate.

In 1999, the California Legislature and Governor recognized the regional benefit of conservation, as well as local supply development, by enacting Senate Bill 60 which states: "It is the intent of the Legislature that the Metropolitan Water District of Southern California expand water conservation, water recycling, and groundwater recovery efforts" and "The Metropolitan Water District of Southern California shall place increased emphasis on sustainable, environmentally sound, and cost-effective water conservation, recycling, and groundwater storage and replenishment measures." (MWD Act, Sec. 130.5.) An estimate of the costs of water conservation programs as measured by Metropolitan's incentive payments is given in Table 2.

METROPOLITAN'S REVENUE

Metropolitan's major capital facilities are financed largely from the proceeds of revenue bond issues, which are repaid over future years. The principal source of revenue for repayment of these bonds is water sales to its member agencies, which is currently Metropolitan's largest source of revenue. In addition, *ad valorem* property taxes provide an additional limited revenue source, which is used to pay pre-1978 voter-approved indebtedness. However, the use of water rates as a primary source of revenue has placed an increasing burden on ratepayers, which would more equitably continue to be paid in part by assessments on land that in part derives its value from the availability of water through an integrated and reliable water system.

Readiness-To-Serve

In December 1993, Metropolitan's Board approved a revenue structure that included additional charges to establish a commitment to Metropolitan's capital improvement program and provide revenue stability. This revenue structure included the RTS Charge, which in 1995 certain member agencies opted to pay in part pursuant to the collection of a standby charge. In October 2001, the Board adopted the current unbundled rate structure, and maintained the RTS Charge.

As noted above, Metropolitan levies the RTS Charge on its member agencies to recover capital costs, including a portion of the debt service on bonds issued to finance capital facilities needed to meet existing demands on Metropolitan's system for emergency storage and available capacity.

The estimated fiscal year 2019/20 RTS Charge for each member agency is shown in Table 4.

Standby Charge Option

Metropolitan's Standby Charge is authorized by the State Legislature and has been levied by Metropolitan since fiscal year 1992/93. The Standby Charge recognizes that there are economic benefits to lands that have access to a water supply, whether or not such lands are using it, which excludes lands permanently committed to open space and maintained in their natural state that are not now and will not in the future be supplied water and lands that the General Manager, in his discretion, finds do not now and cannot reasonably be expected to derive a benefit from the projects to which the proceeds of the Standby Charge will be applied. Utilization of the Standby Charge transfers some of the burden of maintaining Metropolitan's capital infrastructure from water rates and *ad valorem* taxes to all the benefiting properties within the service area. A fraction of the value of this benefit and of the cost of providing it can be effectively recovered, in part, through the levying of a standby charge. The projects to be supported in part by the Standby Charge are capital projects that provide both local and Metropolitan-wide benefit to current landowners as well as existing water users.

Although a standby charge could have been set to recover all Conveyance, Distribution, and Storage costs as detailed in Table 1, Metropolitan's continued Standby Charge only collects about 14% of those costs. For fiscal year 2019/20, the amount to be recovered by the RTS Charge is estimated to be \$134.5 million and of that only \$43.7 million is estimated to be recovered by the Standby Charge.

The Standby Charge for each acre or parcel of less than an acre varies from member agency to member agency, as permitted under the legislation establishing Metropolitan's Standby Charge. The water Standby Charge for each member agency is continued at amounts not to exceed the rates in place since fiscal year 1996/97 and is shown in Table 5, which consists of composite rates by member agencies, not to exceed \$15.00. The composite rates consist in part of a uniform component of \$5 applicable throughout Metropolitan, and in part of a variable component, not exceeding \$10 in any member public agency, reflecting the allocation of historical water deliveries by the member agencies as of fiscal year 1993/94 when the composite rates were initially established. Metropolitan will continue Standby Charges only within the service areas of the member agencies that have requested that the standby charge be utilized for purposes of meeting their outstanding RTS obligation.

The proposed Standby Charge includes the continuation of water standby charges on: (1) parcels on which water standby charges have been levied in fiscal year 1996/97 and annually thereafter and (2) parcels annexed to Metropolitan and to an electing member agency after January 1997. Table 6 lists parcels annexed, or to be annexed, to Metropolitan and to electing member agencies during fiscal year 2017/18, such parcels being subject to the Standby Charge upon annexation.

The estimated costs of Metropolitan's wholesale water system, which could be paid by a Standby Charge, exceed \$305 million for fiscal year 2019/20, as shown in Table 1. An average total Standby Charge of about \$71.32 per acre of land or per parcel of land less than one acre would be necessary to pay for the total potential program benefits. Benefits in this amount will accrue to each acre of property and parcel within Metropolitan's service area, as Metropolitan delivers water to member agencies that contributes to water available to these properties, via that member agency or a retail sub-agency. Because Metropolitan's water deliveries to member agencies contributes to water available only to properties located within Metropolitan's service area boundaries (except for certain contractual deliveries as permitted under Section 131 of the Metropolitan Water District Act), any benefit received by the public at large or by properties outside of the area is merely incidental.

Table 5 shows that the distribution of Standby Charge revenues from the various member agency service areas would provide net revenue flow of approximately \$43.7 million for fiscal year 2019/20. Metropolitan will use other revenue sources, such as water sales revenues, RTS Charge revenues (except to the extent collected through standby charges, as described above), interest income, and revenue from sales of hydroelectric power, to pay for the remaining program benefits. Additionally, the actual Standby Charge proposed to be continued ranges from \$5 to \$15 per acre of land or per parcel of land less than one acre. Thus, the benefits of Metropolitan's investments in water conveyance, storage, distribution, and demand management programs far exceed the recommended Standby Charge.

Equity

The RTS Charge is a firm revenue source. The revenues to be collected through this charge will not vary with sales in the current year. This charge is levied on Metropolitan's member agencies and is not a fee or charge upon real property or upon persons as an incident of property ownership. It ensures that agencies that only occasionally purchase water from Metropolitan but receive the reliability benefits of Metropolitan's system pay an equitable share of the costs to provide that reliability. Within member agencies that elect to pay the RTS Charge through Metropolitan's standby charges, the Standby Charge results in a lower RTS Charge than would otherwise be necessary due to the amount of revenue collected from lands which benefit from the availability of Metropolitan's water supply. With the Standby Charge, these properties are now contributing a more appropriate share of the cost of importing water to Southern California.

Metropolitan's water system increases the availability and reliable delivery of water throughout Metropolitan's service area. A reliable system benefits existing end users and land uses through retail water service provided by Metropolitan member agencies or by water retailers that purchase water from a Metropolitan member agency, and through the replenishment of groundwater basins and reservoir storage as reserves against shortages due to

droughts, natural emergencies, or scheduled facility shutdowns for maintenance. The benefits of reliable water resources from the SWP, CRA, Storage, and system improvements accrue to more than 250 cities and communities within Metropolitan's six-county service area. Metropolitan's regional water system is interconnected, so water supplies from the SWP and CRA can be used throughout most of the service area and therefore benefit water users and properties system-wide.

Additional Metropolitan deliveries required due to the demands of property development will be reduced by the implementation of demand management projects, including water conservation, water recycling, and groundwater recovery projects. As with the SWP, CRA and Storage and the conveyance and distribution facilities, demand management programs increase the future reliability of water resources. In addition, demand management programs provide system-wide benefits by decreasing the demand for imported water, which helps to decrease the burden on the district's infrastructure and reduce system costs, and free up conveyance capacity to the benefit of all system users. However, the abilities of each member agency to implement these projects under Metropolitan's financial assistance programs vary, depending on local conditions.

A major advantage of a firm revenue source, such as a RTS charge, is that it contributes to revenue stability during times of drought or low water sales. It affords Metropolitan additional security, when borrowing funds, that a portion of the revenue stream will be unaffected by drought or by rainfall. This security will help maintain Metropolitan's historically high credit rating, which results in lower interest expense to Metropolitan, and therefore, lower overall cost to its member agencies.

SUMMARY

The foregoing and the attached tables describe the current costs of Metropolitan's system and benefits provided by the projects listed as mainstays to the water system for Metropolitan's service area. Benefits are provided to member agencies, their retail sub-agencies, water users and property owners. The projects represented by this report provide both local benefits as well as benefits throughout the entire service area. It is recommended, for calendar year 2020, that the Metropolitan Board of Directors adopt the RTS Charge as set forth in Table 4 with an option for local agencies to request that a Standby Charge be collected for fiscal year 2019/20 from lands within Metropolitan's service area as a credit against such member agency's RTS Charge, up to the Standby Charge amounts collected by Metropolitan within the applicable member agency for fiscal year 1996/97. The maximum Standby Charge would not exceed \$15 per acre of land or per parcel of less than one acre. The recommended Standby Charge exceeds the costs of the system described in this Engineer's Report by at least \$262 million. A preliminary listing of all parcels subject to the proposed 2019/20 Standby Charge and the amounts proposed to be continued for each is available in the office of the Chief Financial Officer. A final listing is available upon receipt of final information from each county.

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Brad Coffey, RCE C52169



Prepared Under the Supervision of:

June Skillman Interim Assistant General Manager/ Chief Einancial Officer

TABLE 1

ESTIMATED COSTS OF WATER SYSTEM INFRASTRUCTURE BENEFITING REAL PROPERTY WITHIN METROPOLITAN'S SERVICE AREA

	mated Program s for FY2019/20	Dollars Per Parce of 1 Acre or Less
Capital Payments for Water System Infrastructure Net Capital Payments to State Water Project (SWP)		
(less portion paid by property taxes)	\$ 40,551,723	\$9.46
Non Tax Supported Capital Costs for Non-SWP Conveyance System ¹	\$ 82,714,645	\$19.30
Non Tax Supported Capital Costs for Distribution System ²	\$ 78,607,619	\$18.34
Non Tax Supported Capital Costs for Water Storage ³	\$ 103,827,447	\$24.22
Total Capital Payments	\$ 305,701,433	\$71.32
Estimated Standby Charge Revenues Percent Collected by Standby Charge	\$ 43,655,439 14%	\$10.19
Total Remaining Costs Not Paid by Standby Charge	\$ 262,045,993	\$61.14

[1] Non-SWP Conveyance include the Colorado River Aqueduct and Inland Feeder.

[2] Distribution facilities include the pipelines, laterals, feeders and canals that distribute water throughout the service area.

[3] System storage includes Diamond Valley Lake, Lake Mathews, Lake Skinner and several other smaller surface reservoirs which provide storage for operational purposes.

Totals may not foot due to rounding

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WATER RECYCLING, GROUNDWATER RECOVERY AND CONSERVATION PROJECTS

Project Name	FISCAL YEAR 2019/20 Payment
Vater Recycling Projects	\$28,105,464
Alamitos Barrier Reclaimed Water Project	
Anaheim Water Recycling Demonstration Project	
Burbank Reclaimed Water System Expansion Project	
Burbank Recycled Water System Expansion Phase II Project	
Capistrano Valley Non Domestic Water System Expansion	
Century / Rio Hondo Water Recycling Program	
Development of Non-Domestic Water System in Ladera Ranch a	nd Talega Valley
Direct Reuse Project Phase IIA	na raiega vancy
Dry Weather Runoff Reclamation Facility	
Eastern Recycled Water Pipeline Reach 16 Project	
El Toro Phase II Recycled Water Distribution System Expansion P	roject
El Toro Recycled Water System Expansion	
Elsinore Valley Recycled Water Program	
EMWD Recycled Water System Expansion Project	
Encina Basin Water Reclamation Project Phases 1 and 2	
Escondido Regional Reclaimed Water Project	
Glendale Verdugo-Scholl and Brand Park Project	
Griffith Park South Water Recycling Project	
Groundwater Reliability Improvement Program Recycled Water	Project
Groundwater Replenishment System Project	
Hansen Area Water Recycling Phase I Project	
Hansen Dam Golf Course Water Recycling Project	
Harbor Water Recycling Project	
Lake Mission Viejo Advanced Purification WTF	
Leo J. Vander Lans Water Treatment Facility Expansion Project	
Long Beach Reclaimed Water Master Plan Phase I System Expans	sion
Los Angeles Taylor Yard Park Water Recycling Project	
Michelson/Los Alisos Water Reclamation Plant Upgrades and Dis	stribution System Expansion Proje
Moulton Niguel Water Reclamation System	, , , ,
North Atwater Area Water Recycling Project	
North City Water Reclamation Project	
North Hollywood Area Water Recycling Project	
Olivenhain Recycled Project - Southeast Quadrant	
Otay Recycled Water System	
Oxnard Advanced Water Purification Facility Project	

TABLE 2 (Continued)	
WATER RECYCLING, GROUNDWATER RECOVER AND CONSERVATION PROJECTS	Y
Project Name	FISCAL YEAR 2019/20 Payment
Water Recycling Projects (continued) Padre Dam MWD Reclaimed Water System Phase I Rancho California Reclamation Expansion Project Rowland Water District Portion of the City of Industry Regional Recycled San Clemente Recycled Water System Expansion Project San Clemente Recycled Water System Expansion Project San Pasqual Water Reclamation Project, Phase I Santa Maria Water Reclamation Project Sepulveda Basin Sports Complex Water Recycling Project Sepulveda Basin Water Recycling Project - Phase 4 Terminal Island Recycled Water Expansion Project USGVMWD Portion of the City of Industry Regional Recycled Water Proj Van Nuys Area Water Recycling Project Walnut Valley Water District Portion of the City of Industry Regional Recycled Water Sasin Water Recycling Project West Basin Water Recycling Program Phase V Project West Basin Water Recycling Project Westside Area Water Recycling Project Westside Area Water Recycling Project	d Water Project ject

TABLE 2 (Continued)	
WATER RECYCLING, GROUNDWATER RECOVER AND CONSERVATION PROJECTS	Y
Project Name	FISCAL YEAR 2019/20 Payment
Groundwater Recovery Projects Beverly Hills Desalter Project Cal Poly Pomona Water Treatment Plant Capistrano Beach Desalter Project Chino Basin Desalination Program / IEUA Chino Basin Desalination Program / Western Colored Water Treatment Facility Project Irvine Desalter Project IRWD Wells 21 & 22 Desalter Project Madrona Desalination Facility (Goldsworthy Desalter) Project Menifee Basin Desalter Project Perris II Brackish Groundwater Desalter Pomona Well #37-Harrison Well Groundwater Treatment Project Round Mountain Water Treatment Plant San Juan Basin Desalter Project Temescal Basin Desalting Facility Project	\$9,719,860
On-site Retrofit Program	\$3,000,000
Future Supply Actions	\$1,985,000
Conservation ProjectsRegionwide ResidentialRegionwide CommercialMember Agency Administered/MWD FundedWater Incentive Savings ProgramCalifornia Friendly Landscape Training ClassesTurf Removal Training ClassesLandscape Irrigation SurveysPilot programs/StudiesInspectionsLandscape Transformation Program (Turf Removal)Disadvantaged Communities Program	\$43,000,000
Total Demand Management Programs	\$85,810,324

CONVEYANCE, DISTRIBUTION	, AND STORAGE SYSTEM COSTS
Description	
Storage Facilites	
ALAMEDA CORRIDOR, PIPELINE RELOCATION, PROTECTION CAPITAL PROGRAM FOR PROJECTS COSTING LESS THAN \$250,000-LIVE OAK	
CAPITAL PROGRAM FOR PROJECTS COSTING LESS THAN \$250,000-MORRIS DAM	
CHINO BASIN GROUNDWATER SERVICE CONNECTION CB-15T CHLORINATION AND PH CONTROL FACILITIES- ORANGE COUNTY & GARVEY (50/5	50)
CLEARING OF LAKE MATHEWS RESERVOIR AREA CONVERSION OF DEFORMATION SURVEY MONITORING AT COPPER BASIN	
COPPER BASIN AND GENE WASH DAM, INSTALL SEEPAGE ALARM (50/50)	
COPPER BASIN RESERVOIR SUPERVISORY CONTROL COPPER BASIN SEWER SYSTEM	
CORONA DEL MAR RESERVOIR- REPLENISHMENT CORONA DEL MAR RESERVOIR-: CHLORINATION STATION	
CRANE - LAKE MATHEWS OUTLET TOWER (ORG CONST) DAM SEISMIC ASSESSMENT - PHASE 3	
DAM SEISMIC UPGRADES - PHASE 3	
DIAMOND VALLEY LAKE DAM MONITORING SYSTEM UPGRADE DIAMOND VALLEY LAKE, CAL PLAZA CHARGES	
DIAMOND VALLEY LAKE, CONSULTANT COSTS DIAMOND VALLEY LAKE, DAM DEFORMATION MONITORING	
DIAMOND VALLEY LAKE, EAST DAM SUMP PUMP ELECTRICAL STUDY	
DIAMOND VALLEY LAKE, GENERAL CONSTRUCTION MGMT, 2000-2001 DIAMOND VALLEY LAKE, INUNDATION MAPS	
DIAMOND VALLEY LAKE, UNDERGROUND TANK CLOSURE DIAMOND VALLEY RECREATION, EAST MARINA	
DIAMOND VALLEY RECREATION, FISHERY DIAMOND VALLEY RECREATION, MUSEUM FOUNDATION REHABILITATION	
DIAMOND VALLEY RECREATION, SEARL PARKWAY IMPROVEMENTS, PHASE I	
DIAMOND VALLEY TRAILS PROGRAM, TRAILS DISTRICT DESIGN AND INSPECTION - MORRIS DAM	
DISTRICT RESERV. AQUEOUS AMMONIA FEED SYSTEM DISTRICT RESERVOIR - LONGTERM CHEMICAL FAC CONTAINMENT	
DOMESTIC WATER SUPPLY - LAKE MATHEWS (ORG CONST)	
DOMESTIC WATER SYSTEM - LAKE MATHEWS (ORG CONST) DOMESTIC WATER SYSTEM-PALOS VERDES RESERVOIR (INTERIM CONST)	
DVL - SEARL PARKWAY EXTENSION - PHASE 2 DVL - SEARL PARKWAY LANDSCAPING	
DVL EAST DAM POWER LINE REALIGNMENT	
DVL INLET/OUTLET FISH SCREEN REHABILITATION DVL RECREATION - ALTERNATE ACCESS ROAD	
DVL RECREATION, COMMUNITY PARK AND REGIONAL AQUATIC FACILITY DVL SECURITY ENHANCEMENT	
DVL, CONSTRUCTION	
DVL, CONSTRUCTION CLAIMS SUPPORT DVL, CONSTRUCTION MANAGEMENT SERVICE	
DVL, CONSTRUCTION SUPERVISION DVL, CONSTRUCTION, WEST DAM FOUNDATION	
DVL, DEDICATION CEREMONY DVL, DISTURBED	
DVL, DOMENIGONI PARK	
DVL, EAST DAM DVL, EAST DAM EMBANKMENT	
DVL, EAST DAM FENCING DVL, EAST DAM INLET OUTLET TOWER CONSTRUCTION	
DVL, EAST DAM LANDSCAPE SCREENING	
DVL, EAST DAM NORTH RIM REMEDIATION DVL, EAST DAM P-1 FACILITIES	
DVL, EAST DAM SITE COMPLETION DVL, EAST DAM STATE STREET IMPROVEMENTS	
DVL, EAST DAM VERTICAL SLEEVE VALVE	
DVL, EAST MARINA, PHASE 2 DVL, EXCAVATION	
DVL, FIXED CONE, SPHERE DVL, GENERAL	
DVL, GRADING OF CONT DVL, INSTALL NEW WATERLINE	
DVL, MISC SMALL CONS	
DVL, NORTH HIGH WATER ROAD DVL, P-1 PUMPING FACILITY	
DVL, PROCUREMENT DVL, SCOTT ROAD EXTENSION	
DVL, SOUTH HIGH WATER ROAD & QUARRY	
DVL, SPILLWAY DVL, START UP	
DVL, VALLEY-WIDE SITE ROUGH GRADING DVL, WORK PACKAGE	
DVL, WORK PACKAGE 1	
DVL, WORK PACKAGE 10, INLET OUTLET WORK DVL, WORK PACKAGE 11, FOREBAY	
DVL, WORK PACKAGE 12, TUNNEL DVL, WORK PACKAGE 13, P-1 PUMP OPERATIONS FACILITY	
DVL, WORK PACKAGE 14, PC-1	
DVL, WORK PACKAGE 15, SITE CLEARING DVL, WORK PACKAGE 16, GROUNDWATER MONITORING	
DVL, WORK PACKAGE 17, FIELD OFFICE DVL, WORK PACKAGE 18, TEMPORARY VISITOR CENTER	
DVL, WORK PACKAGE 19, PERMANENT VISITOR CENTER	
DVL, WORK PACKAGE 2, EASTSIDE PIPELINE DVL, WORK PACKAGE 20, EAST DAM EXCAVATION, FOUNDATION	
DVL, WORK PACKAGE 21, WEST DAM EXCAVATION, FOUNDATION DVL, WORK PACKAGE 23, WEST RECREATION AREA	
DVL, WORK PACKAGE 24, EAST RECREATION AREA	
DVL, WORK PACKAGE 25, EXCAVATION DVL, WORK PACKAGE 26, ELECTRICAL TRANSMISSION LINES	
DVL, WORK PACKAGE 27, MAJOR EQUIPMENT P-1 DVL, WORK PACKAGE 28, MAJOR EQUIPMENT, GATES	
DVL, WORK PACKAGE 29, MAJOR EQUIPMENT, PC-1	
DVL, WORK PACKAGE 30, INSTRUMENTATION AND CONTROL SYSTEMS	

TABLE 3	
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS	
Description	
Description Storage Facilites	
Storage Factines DVL, WORK PACKAGE 31, GEOGRAPHICAL INFO	
DVL, WORK PACKAGE 32, PERMIT	
DVL, WORK PACKAGE 33, MAJOR EQUIPMENT, VALVES DVL, WORK PACKAGE 34, EMERGENCY RELEASE	
DVL, WORK PACKAGE 35	
DVL, WORK PACKAGE 36, TRANSMISSION LINE TO PC-1 DVL, WORK PACKAGE 38, RUNOFF EROSION	
DVL, WORK PACKAGE 39, SADDLE DAM FOUNDATION	
DVL, WORK PACKAGE 4, NEWPORT ROAD RELOCATION	
DVL, WORK PACKAGE 40 DVL, WORK PACKAGE 42, GEOTECHNICAL	
DVL, WORK PACKAGE 43, MOBILIZATION	
DVL, WORK PACKAGE 44, SITE DEVELOPMENT DVL, WORK PACKAGE 47, HAZARDOUS MATERIAL	
DVL, WORK PACKAGE 48, GENERAL ADMIN	
DVL, WORK PACKAGE 49 DVL, WORK PACKAGE 5, SALT CREEK FLOOD CONTROL	
DVL, WORK PACKAGE 52, HISTORY ARCHEOLOGY INVENTORY	
DVL, WORK PACKAGE 53, PREHISTORIC ARCHEOLOGY DVL, WORK PACKAGE 54, PLANTS, WILDLIFE	
DVL, WORK PACKAGE 55, AIR QUALITY, NOISE	
DVL, WORK PACKAGE 6, SURFACE WATER MITIGATION DVL, WORK PACKAGE 7, DESIGN WEST DAM ACCESS	
DVL, WORK PACKAGE 8, DESIGN EAST DAM ACCESS	
DVL, WORK PACKAGE 9, SADDLE DAM DVL, WORKING INVENTORY, 80,000 ACRE FEET (10% OF CAPACITY)	
DVL, WORKING INVENTORY, 80,000 ACRE FEET (10% OF CAPACITY) EAST DAM TUNNELS	
EAST MARINA BOAT RAMP EXTENSION	
ELECTRICAL SERVICE - LAKE MATHEWS (ORG CONST) ELECTRICAL SYSTEM - LAKE MATHEWS (ORG CONST)	
FIRST SAN DIEGO AQUEDUCT - REPLACE PIPELINE SECTION BOTH BARRELS	
FLOATING BOAT HOUSE - LAKE MATHEW FLOOD RELEASE VALVE, MORRIS DAM & WATER SUPPLY SYSTEM,PV RESER.	
FOOTBRIDGE - LAKE MATHEWS (ORG CONST)	
FOOTHILL FEEDER- LIVE OAK RESERVOIR- CLAIMS FOOTHILL FEEDER- LIVE OAK RESERVOIR- RESIDENCE	
GRAVEY RESERVICE OPERATION & MAINTENANCE CENTER	
GARVEY RESERVIOR OPERATION & MAINTENANCE CENTER GARVEY DESERVIOR ODERATION & MAINTENANCE CENTER (BETIEMENT)	
GARVEY RESERVIOR OPERATION & MAINTENANCE CENTER (RETIREMENT) GARVEY RESERVOIR - JUNCTION STRUCTURE,REPLACE VALVE # 1	
GARVEY RESERVOIR COVER AND LINER REPLACEMENT PROJECT	
GARVEY RESERVOIR DRAINAGE & EROSION CONTROL IMPROVEMENTS GARVEY RESERVOIR- EMERGENCY GENERATOR	
GARVEY RESERVOIR- FLOATING COVER	
GARVEY RESERVOIR HYPOCHLORITE FEED SYSTEM GARVEY RESERVOIR- JUNCTION STRUCTURE, REPLACE VALVE #1	
GARVEY RESERVOIR- JUNCTION STRUCTURE, REPLACE VALVE #1 - INTEREST	
GARVEY RESERVOIR- JUNCTION STRUCTURE, REPLACE VALVES # 4 & 5 GARVEY RESERVOIR- MODIFY DESILTING BASINS	
GARVEY RESERVOIR REPAIR	
GARVEY RESERVOIR, LOWER ACCESS ROAD, PAVING & DRAINS GARVEY RESERVOIR, REPLACE VALVE # 4 & 5	
GARVEY RESERVOIR, REFUGUEVELVE #440	
GARVEY RESERVOIR: CONT.565, SPEC.412	
GARVEY RESERVOIR: TWO COTTAGES WITH GARAGES GARVEY RESERVOIR-HYPOCHLORINATION	
GARVEY RESERVOIR-HYPOCHLORINE STATION	
GARVEY RESERVOIR-INLET AND OUTLET CONDUIT SYSTEM MODIFICATION GARVEY RESEVOIR-JUNCTION STRUCTURE REPLACE TWO VALVES	
GARVEY RSVR REPLACE VENTURI THROAT SECTION	
HEADWORKS OF DISTRIBUTION SYSTEM LAKE MATHEWS HEADWORKS: ADDITIONAL VALVES	
HEADWORKS: MOTO PERATED SLIDE GATES	
HOUSE AND GARAGE AT CORONA DEL MAR RESERVOIR HOUSE AND GARAGE AT ORANGE COUNTY RESERVOIR	
HOUSE AT PALOS VERDES RESERVOIR	
HOWELL-BUNGER VALVE OPERATOR, LAKE MATHEWS, 5 VALVES 1939	
HOWELL-BUNGER VALVE OPERATOR, LAKE MATHEWS, 5 VALVES 1955 JENSEN FINISHED WATER RESERVOIR NO. 1 COVER REHABILITATION	
JENSEN FINISHED WATER RESERVOIR NO. 2 FLOATING COVER IMPROVEMENT	
JENSEN FWR # 2 FLOATING COVER REPLACEMENT JENSEN, REPAIR COVER OVER RESERVOIR 1	
LAKE MATHEWS - REPLACE STANDBY GENERATOR	
LAKE MATHEWS - ELECTRICAL SYSTEM IMPROVEMENT LAKE MATHEWS BUILDING	
LAKE MATHEWS BUILDINGS 8 & 15, RENOVATION OF ASSEMBLY AREA AND ADMIN. BLDG.	
LAKE MATHEWS- CARPENTER AND VEHICLE MAINTENANCE BUILDING LAKE MATHEWS- CHLORINATION FACILITIES	
LAKE MATHEWS CHLORINATION FACILITY- REPLACE CHLORINATION EQPMT.	
LAKE MATHEWS CNTRL TOWER-REPL. 45 30-INCH GATE/BUTTERFLY VALVES	
LAKE MATHEWS CONTROL TOWER - REPLACE 45 10-INCH GATE VALVE LAKE MATHEWS DAM SPILLWAY ASSESSMENT	
LAKE MATHEWS DIKE	
LAKE MATHEWS DIVERSION TUNNEL LAKE MATHEWS DIVERSION TUNNEL WALKWAY REPAIR	
LAKE MATHEWS- DOCK AND BOAT SHELTER	
LAKE MATHEWS DOMESTIC FACILITIES	

TABLE 3
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS
Description
Storage Facilites
AKE MATHEWS- DOMESTIC WATER SYSTEM AKE MATHEWS- ELECTRICAL SYSTEM IMPROVEMENT
AKE MATHEWS- EMERGENCY GENERATOR
AKE MATHEWS ENLARGEMENT (SPEC NO. 505) AKE MATHEWS FOREBAY OUTLET STRCTR-REPL.CONCRETE BLOCK BLDG
AKE MATHEWS FOREBAY OUTLET, CONCRETE BLDG AKE MATHEWS FOREBAY- REPLACE FOOTBRIDGE
AKE MATHEWS FOREBAY WALKWAY REPAIRS
AKE MATHEWS FOREBAY, HEADWORK FACILITY AND EQUIPMENT UPGRADE AKE MATHEWS HEADWORKS-INSTALL AIR MTRS,3 HOWELL BNGR VALVE OP.
AKE MATHEWS- HOUSE AND GARAGE
AKE MATHEWS I/O TOWER EMERGENCY GENERATOR AKE MATHEWS- IMPROVE MAIN SUBSTATION
AKE MATHEWS- IMPROVEMENT OF DOMESTIC WATER & FIRE PROT. SYSTEM AKE MATHEWS -LUMBER STORAGE BUILDING
AKE MATHEWS -LUMBER STORAGE BUILDING - INTEREST
AKE MATHEWS LUMBER STORAGE ROOF COVER AKE MATHEWS MAIN DAM AND SPILLWAY
AKE MATHEWS MAIN DAM SUB DRAIN SYSTEM
AKE MATHEWS MAINTENANCE BUILDING AKE MATHEWS MAINTN.FACILITIES-REPLACE 75 KVA TRANSFORMER.SERV.
AKE MATHEWS- MODIFY CHLORINATION
AKE MATHEWS- MODIFY CHLORINE STORAGE TANK FOUNDATIONS AKE MATHEWS- MODIFY ELECTRICAL SERVICE
AKE MATHEWS MULTIPLE SPECIES RESERVE, MANAGER''S OFFICE AND RESIDENCE AKE MATHEWS OFFICE BLDG MODIFICATIONS-AMERICANS W/ DISABILITY
AKE MATHEWS OFFICE TRAILER MODIFICATIONS-AMERICANS W/ DISABILITY
AKE MATHEWS -OPERATOR RESIDENCE AKE MATHEWS OULET TOWER
AKE MATHEWS OUTLET FACILITIES
AKE MATHEWS OUTLET TOWER- REPLACE CRANES AKE MATHEWS OUTLET TOWER-REPLACE GATE VALVES
AKE MATHEWS OUTLET TOWER-REPLACE GATE VALVES (RETIREMENT)
AKE MATHEWS OUTLET TUNNEL AKE MATHEWS- PREFABRICATED AIRCRAFT HANGER
AKE MATHEWS- PREFABRICATED AIRCRAFT HANGER - INTEREST AKE MATHEWS- PROPANE STORAGE TANK
AKE MATHEWS- PROPANE STORAGE TANK - INTEREST
AKE MATHEWS- REPLACE HOWELL-BUNGER VALVE OPERATORS AKE MATHEWS- REPLACE VALVES
AKE MATHEWS RESERVOIR-RELOCATE SOUTHERLY SECURITY FENCE
AKE MATHEWS RESERVOIR-RELOCATE SOUTHERLY SECURITY FENCE - INTEREST AKE MATHEWS- SEEPAGE ALARMS
AKE MATHEWS- SEEPAGE ALARMS - INTEREST AKE MATHEWS- SPRAY PAINT BOOTH
ARE MATHEWS WATERSHED, DRANAGE
AKE MATHEWS WATERSHED, DRAINAGE WATER QUALITY MGMT PLAN (CAJALCO CREEK DAM) AKE MATHEWS, HAZEL ROAD
AKE MATHEWS, REPLACE CHLORINATION EQUIPMENT
AKE MATHEWS,DIKE #1- INSTALL PIEZOMETERS, STAS.55+00 & 85+50 AKE MATHEWS: VALVES AND FITTINGS IN HEADWORKS
AKE MATHEWS-CONST. CONCR.TRAFFIC BARR. WALL TO PROTECT HQ FACIL. AKE MATTHEWS FIRE WATER LINE
ARE MALLINEWS FIRE WATER LINE ARE PERRIS POLLUTION PREVENTION AND SOURCE WATER PROTECTION (CAPITAL PORTION)
AKE SKINNER - AERATION SYSTEM AKE SKINNER - CHLORINATION SYSTEM OUTLET TOWER BYPASS PPLN
AKE SKINNER - CHLORINATION SYSTEM OUTLET TOWER BYPASS PPLN - INTEREST
AKE SKINNER - INSTALL OUTLET CONDUIT FLOWMETER AKE SKINNER (AULD VALLEY RESERVOIR)- CLAIMS
AKE SKINNER ÅERATOR AIR COMPRESSORS REPLACEMENT
AKE SKINNER- EQUIPMENT YARD SECURITY AKE SKINNER- EQUIPMENT YARD SECURITY - INTEREST
AKE SKINNER FACILITIES
AKE SKINNER FACILITIES - EMPLOYEE HOUSING AKE SKINNER FACILITIES - FENCING
AKE SKINNER FACILITIES - LANDSCAPING AKE SKINNER FACILITIES - RELOCATE BENTON ROAD
AKE SKINNER OUTLET CONDUIT REPAIR
AKE SKINNER OUTLET TOWER SEISMIC ASSESSMENT AKE SKINNER- PROPANE STORAGE TANK
AKE SKINNER- PROPANE STORAGE TANK - INTEREST
IVE OAK RESERVOIR & RESERVOIR BYPASS SCHEDULE 264A IVE OAK RESERVOIR REHABILITATION
IVE OAK RESERVOIR SURFACE REPAIR
IAINTENANCE FACILITIES, 75KVA TRANSFORMER SERVICE-LAKE MATHEWS (ORG CONST) IILLS FINISHED WATER RESERVOIR REHABILITATION
IINOR CAPITAL PROJECTS FOR FY 1989/90 - LAKE MATHEWS IINOR CAPITAL PROJECTS FOR FY 1989/90 - PALOS VERDES RESERVOIR
IINOR CAPITAL PROJECTS-LAKE SKINNER, INLET CANAL ELECTRIC FISH BARRIER
/IINOR CAPITAL PROJECTS-LIVE OAK RESERVOIR, DESILT BASIN IMPROVEMENTS /IODIFICATION OF THE LAKE MATHEWS SERVICE WATER SYSTEM
IORRIS DAM COTTAGE
/ORRIS DAM- ENLARGMT. OF SPILLWAY FACLT.& UPPER FDR.VALVE MODF /ORRIS DAM ROAD IMPROVEMENT
IORRIS DAM, SEISMIC STABILITY REANALYSIS IORRIS DAM-REPLACE EMERGENGY POWER SYSTEM
IORRIS RESERVOIR- CAPITAL OBLIGATION PAID
IORRIS RESERVOIR- INTEREST OBLIGATION PAID).C.RESERVOIR - IMPROVE DOMESTIC SYSTEM
DRANGE COUNTY RESERVOIR JUNCTION STRUCTURE, REPLACE VALVE # 1
)RANGE COUNTY RESERVOIR (SPEC NO. 341))RANGE COUNTY RESERVOIR CHLORINATION STATION
DRANGE COUNTY RESERVOIR- EMBANKMENT AND SPILLWAY
)RANGE COUNTY RESERVOIR- EMERGENCY GENERATOR)RANGE COUNTY RESERVOIR- FLOATING COVER
IRANGE COUNTY RESERVOIR- HOUSE

TABLE 3 CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM CO	STS
Description	
Storage Facilites	
ORANGE COUNTY RESERVOIR- MODIFY DOMESTIC WATER SYSTEM	
ORANGE COUNTY RESERVOIR- REPLACE RESIDENCE NO. 95D	
ORANGE COUNTY RESERVOIR-MODIFY ELEC. CONTROL CENTER ORANGE COUNTY RESERVOIR-REPLACE CHLORINATION EQUIPMENT	
ORANGE COUNTY RESERVOIR-REPLACE CHLORINATION SYSTEM	
P V RESERVOIR-REPLACE CHLORINATION SYSTEM	
PALOS VERDES CHLORINATION STATION AND COTTAGE PALOS VERDES RESERVOIR	
PALOS VERDES RESERVOIR - INLET/OUTLET TOWER	
PALOS VERDES RESERVOIR- BY PASS PIPELINES	
PALOS VERDES RESERVOIR COVER REPLACEMENT	
PALOS VERDES RESERVOIR- FENCING AROUND PALOS VERDES RESERVOIR- REPLACE DOMESTIC WATER SYSTEM PIPING	
PALOS VERDES RESERVOIR SODIUM HYPOCHLORITE FEED SYSTEM UPGRADE	
PALOS VERDES RESERVOIR, BYPASS PIPELINE RELIEF STRUCTURE MODIFN.	
PALOS VERDES RESERVOIR,COVERING PALOS VERDES RESERVOIR,REPLACE ACCESS AND PERIMETER ROADS	
PALOS VERDES RESERVOIR; INCREASING ELEVATION OF SPILLWAY CREST	
PALOS VERDES RESERVOIR-INSTALL VALVE & CHLORINATION NOZZLE,INL.TWR	
PALOS VERDES RESERVOIR-REPLACE CHLORINATION SYSTEM PAMO RESERVOIR- WATER STORAGE FEASIBIILITY STUDY	
PAMO RESERVOIR- WATER STORAGE FEASIBILITY STUDY- INTEREST	
PV RESERVOIR GROUNDWATER MANAGEMENT	
RECORD DRAWING RESTORATION PROGRAM, CRA	
REPAIRS TO AZUSA CONDUIT REPLACEMENT OF A 30 INCH GATE VALVE P.V.R.	
RESIDENCE # 95-D, ORANGE COUNTY RESERVOIR	
RESIDENCE 45-D - CORONA DEL MAR RESERVOIR	
RESIDENCE 80-D - ORANGE COUNTY RESERVOIR RESIDENCE 90-D - LAKE MATHEW	
RESIDENCE 91-D - SAN JACINTO RESERVOIR	
RESIDENCE 93-D - SAN JACINTO RESERVOIR	
ROADS AT LAKE MATHEWS ABOVE FLOODLINE	
SAN DIEGO ACQUEDUCT: COTTAGE AT SAN JACINTO RESERVOIR SAN JACINTO RESERVOIR - SAN DIEGO AQUEDUCT	
SECOND OUTLET, PALOS VERDES RESERVOIR (SPEC NO. 597)	
SEEPAGE CONTROL AT LAKE MATHEWS	
SKINNER DAM SPILLWAY ASSESSMENT TEMPORARY EMPLOYEE LABOR SETTLEMENT	
VALVE - GENE RESERVOR (REPLACED 201)	
VALVE STRUCTURE MODIFICATIONS-UPPER FDR, SAN GABRIEL CROSSING (INTERIM CONST)	
WADSWORTH PUMP PLANT CONDUIT PROTECTION WADSWORTH PUMP PLANT, PUMP MOTOR CONVERSION	
WATER QUALITY PROJECT UPSTREAM	
WATER SUPPLY SYSTEM, OPERATING TOWER, LAKE MATHEWS	
WEYMOUTH FINISHED WATER RESERVOIR GATE REPLACEMENT	
Sub-total Storage facilities costs	103.827.447
	103,027,447

TABLE 3
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS
Description Conveyance and Aqueduct Facilites
CONVEYANCE AND AQUEDUCT FACINES 2.4 KV STANBY DIESEL ENGINE GENERATOR REPLACEMENT - GENE
24 KV STANBY DIESEL ENGINE GENERATOR REPLACEMENT - INTAKE
2.4 KV STANBY DIESEL ENGINE GENERATOR REPLACEMENT - IRON ACCESS STRUCTURE, TRANSITION STRUCTURE AND MANHOLE COVER REPLACEMENT
ALL PUMPING PLANTS - 230 KV & 69 KV DISCONNECTS REPLACEMENT ALL PUMPING PLANTS - BRIDGE CRANES
ALL PUMPING PLANTS - TRANSFORMER BANK BRIDGE
ALLEN MCCOLLOCH PIPELINE - CORROSION INTERFERENCE MITIGATION ALLEN MCCOLLOCH PIPELINE - RIGHT OF WAY
ALLEN MCCOLLOCH PIPELINE - UPDATE / MODIFY ALL BOYLE ENGINEERING DRAWINGS
AMP VALVE & SERVICE CONNECTION VAULT REPAIR AQUEDUCT & PUMPING PLANT ISOLATION / ACCESS FIXTURES - STUDY
AQUEDUCT & PUMPING PLANT ISOLATION GATES
ARROWHEAD EAST TUNNEL CONSTRUCTION ARROWHEAD TDS REDUCTION
ARROWHEAD TUNNELS CLAIMS COST ARROWHEAD TUNNELS CONNECTOR ROAD
ARROWHEAD TUNNELS CONSTRUCTION
ARROWHEAD TUNNELS ENGINEERING ARROWHEAD TUNNELS RE-DESIGN
ARROWHEAD WEST TUNNEL CONSTRUCTION
AULD VALLEY CONTROL STRUCTURE AREA FACILITIES UPGRADE STUDY AUXILIARY POWER SYSTEM REHABILITATION / UPGRADES STUDY
AUXILIARY POWER SYSTEM REHABILITATION/UPGRADES
3ACHELOR MOUNTAIN COMMUNICATION SITE ACQUISITION 3ACHELOR MOUNTAIN TELECOM SITE IMPROVEMENTS
3ANK TRANSFORMERS REPLACEMENT STUDY 3LACK METAL MOUNTAIN - COMMUNICATIONS FACILITY UPGRADE
30X SPRINGS FEEDER REHAB PHASE III
3UDGET ADJUSTMENT CABAZON RADIAL GATE FACILITY IMPROVEMENTS
CAJALCO CREEK MITIGATION FLOWS
CAST-IRON BLOW OFF REPLACEMENT - PHASE 4 CATHODIC PROTECTION STUDY - DESIGN AND CONSTRUCTION
CCRP - BLOW-OFF VALVES PHASE 4 PROJECT
CCRP - CONTINGENCY CCRP - EMERGENCY REPAIR
CCRP - HEADGATE OPERATORS & CIRCUIT BREAKERS REHAB. CCRP - PART 1 & 2
CCRP - SAND TRAP CLEANING EQUIPMENT & TRAVELING CRANE STUDY
CCRP - TRANSITION & MAN-WAY ACCESS COVER REPLACEMENT - STUDY & DESIGN CCRP - TUNNELS STUDY
CEPSRP - 230 KV SYSTEM SYNCHRONIZERS
CEPSRP - ALL PUMPING PLANTS - CONTINGENCY & OTHER CREDITS CEPSRP - ALL PUMPING PLANTS - REPLACE 6.9 KV TRANSFORMER BUSHINGS
CEPSRP - ALL PUMPING PLANTS - REPLACE 230KV , 69 KV & 6.9 KV LIGHTENING ARRESTERS
CEPSRP - ALL PUMPING PLANTS - REPLACE 230KV TRANSFORMER PROTECTION CEPSRP - SWITCHYARDS & HEAD GATES REHABILITATION
CEPSRP- ALL PUMPING PLANTS - IRON MOUNTAIN - 230KV BREAKER SWITCH. INST. COLORADO RIVER AQUEDUCT - PUMPING
COLORADO RIVER AQUEDUCT - SIPHONS AND RESERVOIR OUTLETS REFURBISHMENT
COLORADO RIVER AQUEDUCT CONVEYANCE RELIABILITY, PHASE II REPAIRS AND INSTRUMENTATION CONTROL SYSTEM DRAWING UPGRADE STUDY (PHASE 1) - STUDY
COPPER BASIN AND GENE DAM OUTLET WORKS REHABILITATION (STUDY & DESIGN)
COPPER BASIN AND GENE WASH RESERVOIRS DISCHARGE VALVE REHABILITATION COPPER BASIN INTERIM CHLORINATION SYSTEM
COPPER BASIN OUTLET GATES RELIABILITY
COPPER BASIN OUTLET REHABILITATION COPPER BASIN OUTLET, AND COPPER BASIN & GENE WASH DAM SLUICEWAYS REHABILITATION
COPPER BASIN POWER & PHONE LINES REPLACEMENT COPPER BASIN RESERVOIR OUTLET STRUCTURE REHABILITATION PROJECT
COPPER SULFATE STORAGE AT LAKE SKINNER AND LAKE MATHEWS
CORROSION CONTROL OZONE MATERIAL TEST FACILITY COST OF LAND AND RIGHT OF WAY
CRA - ACCESS STRUCTURE, TRANSITION STRUCTURE AND MANHOLE COVER REPLACEMENT
CRA - AQUEDUCT AND PUMPING PLANT ISOLATION GATES CRA - AQUEDUCT RESERVOIR AND DISCHARGE LINE ISOLATION GATES
CRA - AUXILIARY POWER SYSTEM REHAB
CRA - BANK TRANSFORMERS REPLACEMENT STUDY CRA - BLOW-OFF VALVES PHASE 4
CRA - CIRCULATING WATER SYSTEM STRAINER REPLACEMENT CRA - CONTROL SYSTEM IMPLEMENTATION PHASE CLOSE OUT
CRA - CONVEYANCE RELIABILITY PROGRAM PART 1 & PART 2
CRA - COPPER BASIN OUTLET, AND COPPER BASIN & GENE WASH SLUICEWAYS REHABILITATION CRA - COPPER BASIN POWER & PHONE LINES REPLACEMENT
CRA - CUT & COVER FORNAT WASH EXPOSURE STUDY
CRA - DANBYTOWER FOOTER REPLACEMENT CRA - DELIVERY LINE NO. 1 SUPPORTS REHAB - FIVE PUMPING PLANTS
CRA - DELIVERY LINES 2&3 SUPPORTS REHAB - GENE & INTAKE
CRA - DELIVERY LINES 2&3 SUPPORTS REHAB - IRON, EAGLE, & HINDS CRA - DESERT PUMP PLANT OIL CONTAINMENT
CRA - DESERT SEWER SYSTEM REHABILITATION PROJECT CRA - DESERT WATER TANK ACCESS & SAFETY IMPROVEMENTS
CRA - DISCHARGE CONTAINMENT PROGRAM - INVESTIGATION
CRA - DISCHARGE LINE ISOLATION GATES CRA - DWCV-4 VALVE REPLACEMENT
CRA - EAGLE MOUNTAIN SAND TRAPS INFLOW STUDY
CRA - ELECTRICAL/ POWER SYST REL. PROG IRON MTN - 230KV BREAKER SWITC. INST. CRA - GENE PUMPING PLANT MAIN TRANSFORMER AREA
CRA - HINDS PUMP UNIT NO. 8 REFURBISHMENT
CRA - INTAKE PUMPING PLANT - COOLING AND REJECT WATER DISCHARGE TO LAKE HAVASU CRA - INTAKE PUMPING PLANT AUTOMATION PROGRAMMING
CRA - INVESTIGATION OF SIPHONS AND RESERVOIR OUTLETS

TABLE 3 CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS
Description
Description Conveyance and Aqueduct Facilites
CRA - IRON MOUNTAIN RESERVOIR AND CANAL LINER REPAIRS
CRA - IRON MTN. TUNNEL REHABILITATION CRA - LAKEVIEW SIPHON FIRST BARREL - REPAIR DETERIORATED JOINTS
CRA - MAIN PUMP MOTOR EXCITERS CRA - MAIN PUMP STUDY
CRA - MOUNTAIN SIPHONS SEISMIC VULNERABILITY STUDY
XRA - PUMPING PLANT RELIABILITY PROGRAM CONTINGENCY XRA - PUMPING PLANTS VULNERABILITY ASSESSMENT
XRA - PUMPING WELL CONVERSION XRA - QUAGGA MUSSEL BARRIERS
CRA - REAL PROPERTY - BOUNDARY SURVEYS
XRA - RELIABILITY PROGRAM 230 KV & 69 KV DISCONNECTS REPLACEMENT STUDY (5 PLANTS) XRA - RELIABILITY PROGRAM INVESTIGATION
XRA - RELIABILITY PROGRAM PHASE 6 (AQUEDUCT PHASE 6 REHAB.) - SPEC 1568 XRA - RELIABILTY PHASE II CONTINGENCY
XRA - SAND TRAP CLEANING EQUIPMENT AND TRAVELING CRANE XRA - SERVICE CONNECTION DWCV-2T VALVES REPLACEMENT AND STRUCTURE CONSTRUCTION
CRA - SERVICE CONNECTION DWCV-4 A, B, C, & D PLUG VALVES REPLACEMENT
XRA - SIPHONS, TRANSITIONS, CANALS, AND TUNNELS REHABILITATION AND IMPROVEMENTS XRA - SUCTION & DISCHARGE LINES EXPANSION JOINT REHAB
CRA - SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM CRA - SWITCHYARDS AND HEAD GATES REHAB
XRA - SWITCHYARDS AND HEAD GATES REHABILITATION
CRA - TRANSFORMER OIL & CHEMICAL UNLOADING PAD CONTAINMENT CRA - TUNNELS VULNERABILITY STUDY - REPAIRS TO TUNNELS
XRA - WEST PORTAL UPGRADE - REHAB OF STILLING WELL, SLIDE GATE OPERATORS AND RADIAL GATES XRA 2.4 KV STANDBY DIESEL ENGINE GENERATORS REPLACEMENT
CRA 230 KV & 69 KV DISCONNECTS SWITCH REPLACEMENT
XRA 230 KV SYSTEM INTER-AGENCY OPERABILITY UPGRADES XRA 230 KV TRANSMISSION SYSTEM REGULATORY AND OPERATIONAL FLEXIBILITY UPGRADES
XRA 230KV & 69KV PROTECTION PANEL UPGRADE XRA 6.9 KV LEAD JACKETED CABLES
CRA 6.9 KV POWER CABLES REPLACEMENT
CRA 69KV PANEL UPGRADE SRA ACCESS STRUCTURE, TRANSITION STRUCTURE AND MANHOLE COVERS REPLACEMENT
XRA ALL PUMPING PLANTS - FLOW METER UPGRADES XRA AQUEDUCT BLOCKER GATE REPLACEMENT
CRA AQUEDUCT ISOLATION GATES REPLACEMENT
SRA BLACK METAL COMMUNICATION SITE II UPGRADE SRA CANAL CRACK REHAB AND EVALUATION
CRA CANAL CRACK REHABILITATION CRA CANAL IMPROVEMENTS
CRA CIRCULATING WATER SYSTEM STRAINER REPLACEMENT CRA CONDUIT FORMAT WASH EROSION REPAIRS
CRA CONDUIT STRUCTRUAL PROTECTION
CRA CONVEYANCE RELIABILITY PROGRAM (CCRP) - BLOW-OFF REPAIR CRA CONVEYANCE RELIABILITY PROGRAM PART 1 & PART 2
CRA COPPER BASIN AND GENE WASH DAM SLUICEWAYS CRA COPPER BASIN OUTLET GATES RELIABILITY STUDY
CRA DELIVERY LINE REHABILITATION
CRA DESERT AIRFIELDS IMPROVEMENT CRA DESERT REGION SECURITY IMPROVEMENTS
XRA DISCHARGE CONTAINMENT PROGRAM - CONTINGENCY XRA DISCHARGE CONTAINMENT PROGRAM - GENE & IRON DRAIN SYSTEMS
CRA DISCHARGE CONTAINMENT PROGRAM - INVESTIGATION
XRA DISCHARGE CONTAINMENT PROGRAM - OIL & CHEMICAL UNLOADING PAD CONTAINMENT XRA ELECTRICAL / POWER SYSTEM RELIABILITY PROGRAM (CEPSRP)
CRA ENERGY EFFICIENCY IMPROVEMENTS CRA GENE PUMPING PLANT HEAVY EQUIPMENT SERVICE PIT
CRA GENE STORAGE WAREHOUSE REPLACEMENT
CRA HINDS PUMPING PLANT - WASH AREA UPGRADE CRA INTAKE PPLANT - POWER & COMMUNICATION LINE REPLACEMENT
XRA IRON GARAGE HEAVY EQUIPMENT SERVICE PIT REPLACEMENT XRA IRON HOUSING REPLACEMENT
CRA IRON MOUNTAIN SUCTION JOINT REFURBISHMENT PILOT CRA MAIN PUMP & MOTOR REFURISHMENT
XRA MAIN PUMP AND MOTOR REFURISHMENT
CRA MAIN PUMP CONTROLS & INSTRUMENTATION CRA MAIN PUMP DISCHARGE VALVE REFURBISHMENT
CRA MAIN PUMP MOTOR EXCITERS ASSESSMENT CRA MAIN PUMP MOTOR EXCITERS REHABILITATION
CRA MAIN PUMP STUDY
CRA MAIN PUMP SUCTION AND DISCHARGE LINES, EXPANSION JOINT REPAIRS CRA MAIN PUMPING PLANT DISCHARGE LINE ISOLATION BULKHEAD COUPLING CONSTRUCTION
CRA MAIN PUMPING PLANT UNIT COOLERS & HEAT ESCHANGERS CRA MAIN PUMPING PLANTS DISCHARGE LINE ISOLATION BULHEAD COUPLINGS
XRA MAIN PUMPING PLANTS LUBRICATION SYSTEM
CRA MAIN PUMPING PLANTS SERVICE WATER & SAND REMOVAL SYSTEM CRA MAIN TRANSFORMER REPLACEMENT /REHABILITATION
CRA MAIN TRANSFORMER REPLACEMENT/REHAB. CRA MILE 12 POWER LINE & FLOW MONITORING EQUIP. STUDY
CRA OVER-CURRENT RELAY REPLACEMENT
CRA PROTECTIVE SLABS CRA PUMP PLANT FLOW METER REPLACEMENT
CRA PUMP PLANT FLOW METER UPGRADE CRA PUMP PLANT SUMP PIPING REPLACEMENT STUDY
CRA PUMP PLANT SUMP SYSTEM REHABILITATION
CRA PUMP PLANT UNINTERRUPTABLE POWER STUDY (UPS) UPGRADE CRA PUMP PLANTS 2.3KV AND 480V SWITCH RACK REHABILITATION
XRA PUMP PLANTS 2300KV & 480 V SWITCHRACK REHAB XRA PUMP WELLS CONVERSION AND BLOW-OFF REPAIR
RA PUMPING PLANT DELIVERY LINE REHABILITATION RA PUMPING PLANT REHABILITATION STUDY
CRA PUMPING PLANT REHABILITATION STUDY AND INVESTIGATION
XRA PUMPING PLANT RELIABILITY PROGRAM - HIGH PRESSURE COMPRESSOR REPLACEMENT XRA PUMPING PLANT RELIABILITY PROGRAM - SUCTION & DISCHARGE LINES EXPANSION JOINT STUDY
TRA PUMPING PLANT RELIABILITY PROGRAM - SUCTION AND DISCHARGE LINES-EXPANSION JOINT REPAIRS

TABLE 3
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS
Description Conveyance and Aqueduct Facilites
CONVEYANCE AND AQUEQUET FACINTES CRA PUMPING PLANT STORAGE BUILDINGS AT HINDS, EAGLE MOUNTAIN AND IRON MOUNTAIN
CRA PUMPING PLANT SUMP SYSTEM REHABILITATION CRA PUMPING PLANT WASTEWATER SYSTEM - GENE & IRON MTN.
CRA PUMPING PLANT WASTEWATER SYSTEM - INTAKE
CRA PUMPING PLANT WASTEWATER SYSTEM REPLACEMENT - HINDS & EAGLE MTN. CRA PUMPING PLANTS - AUXILIARY POWER SYSTEM REHABILITATE/UPGRADES
CRA PUMPING PLANTS 230KV & 69K DISCONNECT SWITCH REPLACEMENT CRA PUMPING PLANTS ASPHALT REPLACEMENT
CRA PUMPING PLANTS CRANE IMPROVEMENTS CRA PUMPING PLANTS SWITCH HOUSE FAULT CURRENT PROTECTION
CRA PUMPING PLANTS VULNERABILITY ASSESSMENT
CRA PUMPING PLANTS WATER TREATMENT SYSTEMS REPLACEMENT CRA PUMPING PLT RELIABILITY PROGRAM, DISCHARGE LINE COUPLING INSTALLATION
CRA PUMPING WELL CONVERSION CRA QUAGGA MUSSEL BARRIERS
CRA RADIAL GATES AND SLIDE GATE REHABILITATION CRA RADIAL GATES REPLACEMENT
CRA RELIABILITY PHASE II - PUMPING PLANTS 230KV & 69KV DISCONNECT SWITCH REPLACEMENT
CRA RELIABILITY PROGRAM - DISCHARGE VALVE LUBRICATORS CRA RELIABILITY PROGRAM - MOTOR BREAKER FAULTY CURRENT STUDY (5 PLANTS)
CRA RELIABILITY PROGRAM PHASE 6 (AQUEDUCT PHASE 6 REHAB.) - SPEC 1568 CRA RELIABILTY PHASE II - PUMPING PLANT SWITCH HOUSE FAULT CURRENT PROTECTION
CRA SAND TRAP EQUIPMENT UPGRADES
CRA SEISMIC EVALUATION - SWITCH HOUSE AND PUMP ANCHORAGE CRA SEISMIC UPGRADE OF 6.9KV SWITCH HOUSES
CRA SERVICE CONNECTION DWCV-2T VALVES REPLACEMENT AND STRUCTURE CONSTRUCTION CRA SERVICE CONNECTION DWCV-4 VALVES REPLACEMENT
CRA SIPHON REHAB CRA SIPHONS, TRANSITIONS, CANALS, AND TUNNELS REHABILITATION AND IMPROVEMENTS
CRA SURGE CHAMBER DISCHARGE LINE BY-PASS COVERS
CRA SWITCHRACKS & ANCILLARY STRUCTURES EROSION CONTROL CRA TRANSFORMER OIL AND SODIUM HYPOCHLORITE CONTAINMENT
CRA TRANSITION STRUCTURE AND MANHOLE COVERS REPLACEMENT CRA UPS REPLACEMENT
CRA VILLAGES DOMESTIC WATER MAIN DISTRIBUTION REPLACEMENT STUDY CRA WATER DISTRIBUTION SYSTEM REPLACEMENT AND CRA ROADWAY ASPHALT REPLACEMENT - ALL PP
CUF DECHLORINATION SYSTEM
DAM SLUICEWAYS AND OUTLETS REHABILITATION DANBY TOWER FOOTER REPLACEMENT
DANBY TOWERS FOUNDATION REHABILITATION DESERT FACILITIES FIRE PROTECTION SYSTEMS UPGRADE
DESERT LAND ACQUISITIONS
DESERT PUMP PLANT OIL CONTAINMENT DESERT ROADWAY IMPROVEMENT
DESERT SEPTIC SYSTEM DESERT SEWER SYSTEM REHABILITATION
DESERT WATER TANK ACCESS - FIRE WATER, CIRCULATING WATER, DOMESTIC WATER- STUDY DISCHARGE LINE ISOLATION BULKHEAD COUPLINGS
DISTRIBUTION SYSTEM FACILITIES - REHABILITATION PROGRAM
DISTRIBUTION SYSTEM FACILITIES REHABILITATION PROGRAM - MAINTENANCE & STORAGE SHOP (PC-1) DISTRIBUTION SYSTEM RELIABILITY PROGRAM - PHASE 2
DVL INLET / OUTLET TOWER FISH SCREENS REPLACEMENT DVL TO SKINNER TRANSMISSION LINE STUDY
E. THORNTON IBBETSON GUEST QUARTERS
EAGLE AND HINDS EQUIPMENT WASH AREA UPGRADE EAGLE KITCHEN UPGRADE
EAGLE MOUNTAIN PUMPING PLANT SCADA SYSTEM EAGLE MOUNTAIN SAND TRAPS STUDY
EAGLE MOUNTAIN SIPHONS SEISMIC VULNERABILITY STUDY EAGLE MTN SAND TRAPS STUDY
EAGLE ROCK ASPHALT REPAIR PROJECT
EAGLE ROCK MAIN ROOF REPLACEMENT ENHANCED VAPOR RECOVERY UPGRADES FOR GASOLINE DISPENSERS
ENVIRONMENTAL MITIGATION ETIWANDA PIPELINE LINER REPAIR
ETIWANDA RESERVOIR LINER REPAIR FUTURE SYSTEM RELIABILITY PROJECTS
GARVEY RESERVOIR - AUTOMATED DATA ACQUISITION SYSTEM
GARVEY RESEVOIR AUTOMATED DATA ACQUISITON SYSTEM REPLACEMENT GENE & INTAKE P.P FREQUENCY PROTECTION RELAY REPLACEMENT
GENE & INTAKE PUMPING PLANT SURGE CHAMBER OUTLET GATES RE-COATING GENE & INTAKE PUMPING PLANTS - REPLACE UNDER FREQUENCY PROTECTION RELAY
GENE AIR CONDITION GENE AIR CONDITION GENE CAMP STATION SERVICE TRANSFORMER REPLACEMENT
GENE PUMPING PLANT - AIR STRIP EXTENSION PROJECT
GENE PUMPING PLANT - HEAVY EQUIPMENT SERVICE PIT GENE PUMPING PLANT - PEDDLER SUBSTATION REPLACEMENT
GENE PUMPING PLANT - SCADA SYSTEM GENE PUMPING PLANT EXPANSION JOINT REHABILITATION
GENE PUMPING PLANT MAIN TRANSFORMER AREA
GENE PUMPING PLANT STANDBY GENERATOR REPLACEMENT GENE STORAGE BUILDING REPLACEMENT
GENE STORAGE WAREHOUSE REPLACEMENT HEADGATE OPERATORS & CIRCUIT BREAKERS REHAB.
HIGHLAND PIPELINE CONSTRUCTION HINDS EAGLE & IRON MOUNTAINS STORAGE BUILDINGS
HINDS PUMPING PLANT DISCHARGE VALVE PIT PLATFORM REPLACEMENT
HINDS PUMPING PLANT EQUIPMENT WASH AREA UPGRADES HINDS PUMPING PLANT SCADA SYSTEM
HINDS PUMPING PLANT STANDBY GENERATOR REPLACEMENT INLAND FDR, ARROWHEAD TUNNELS REDESIGN
INLAND FDR, ARROWHEAD WEST TUNNEL CONSTRUCTION
INLAND FDR, CONTRACT 9, CONSTRUCTION OF RIVERSIDE PPLN SOUTH INLAND FDR, OWNER CONTROLLED INSURANCE PROGRAM
INLAND FDR, REACH 4, RUSD PPLN INLAND FDR-CNTR #1/DEVIL CYN-WATERMAN RD
NAND FDR-CNTR #1/DEVIL CYN-WATERMAN RD

TABLE 3
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS
Description
Conveyance and Aqueduct Facilites NLAND FDR-CNTR #4-SOFT GRND TNL/SANTA ANA
NLAND FDR-CONT #8-PIPEL PARALLEL TO DAVIS RD
NLAND FDR-ENVIRON. MITIG. NLAND FEEDER - RIGHT OF WAY AND EASEMENT PROCUREMENT
NLAND FEEDER CONTINGENCY
NLAND FEEDER COST OF LAND AND RIGHT OF WAY NLAND FEEDER ENVIRONMENTAL MITIGATION
NLAND FEEDER GROUNDWATER MONITORING NLAND FEEDER HIGHLAND PIPELINE CLAIMS COST
NLAND FEEDER HIGHLAND PIPELINE CONSTRUCTION
NLAND FEEDER HIGHLAND PIPELINE DESIGN NLAND FEEDER MENTONE PIPELINE CONSTRUCTION
NLAND FEEDER MENTONE PIPELINE DESIGN
NLAND FEEDER MENTONE PIPELINE RUSD CONSTRUCTION NLAND FEEDER OWNER CONTROLLED INSURANCE PROGRAM
NLAND FEEDER PROGRAM REMAINING BUDGET/CONTINGENCY NLAND FEEDER PROJECT MANAGEMENT SUPPORT
NLAND FEEDER PURCHASE OF LAND AND RIGHT OF WAY
NLAND FEEDER RAISE BURIED STRUCTURES AND REALIGN DAVIS RD. NLAND FEEDER REVERSE OSMOSIS PLANT
NLAND FEEDER RIVERSIDE BADLANDS TUNNEL CONSTRUCTION NLAND FEEDER RIVERSIDE NORTH PIPELINE DESIGN
NLAND FEDER RUSD CLAIMS DEFENSE
NLAND FEEDER STUDIES NLAND FEEDER UNDERGROUND STORAGE TANK REMOVAL & ABOVEGROUND STORAGE TANK INSTALLATION
NLAND FEEDER, ARROWHEAD EAST TUNNEL
NLAND FEEDER, ARROWHEAD TUNNELS CONSTRUCTION NLAND FEEDER, CONTRACT #5, OPAL AVENUE PORTAL / BADLANDS TUNNEL
NLAND FEEDER, CONTRACT #7, RIVERSIDE NORTH PIPELINE CONSTRUCTION
NLAND FEEDER, PROGRAM MANAGEMENT NLAND FEEDER/SBMWD HIGHLAND INTERTIE BYPASS LINE REHAB
NSULATION JOINT TEST STATIONS NTAKE AND POWER COMMUNICATION LINE RELOCATION
NTAKE POWER AND COMMUNICATIONS LINE RELOCATION
NTAKE PPLANT - POWER & COMMUNICATION LINE REPLACEMENT NTAKE PUMPING PLANT - COOLING AND REJECT WATER DISCHARGE TO LAKE HAVASU
NTAKE PUMPING PLANT AUTOMATION PROGRAMMING
NTAKE PUMPING PLANT INSTRUMENTATION REPLACEMENT NTAKE PUMPING PLANT INSTRUMENTATION REPLACEMENT & AUTOMATION
NTAKE PUMPING PLANT INSTRUMENTATION REPLACEMENT & AUTOMATION (4 PLANTS) NTAKE PUMPING PLANT POWER & COMMUNICATION LINE REPLACEMENT
NTAKE PUMPING PLANT SCADA SYSTEM
NTAKE PUMPING PLANT STANDBY GENERATOR REPLACEMENT RON MOUNTAIN GENERATOR REPLACEMENT
RON MOUNTAIN PUMPING PLANT
RON MOUNTAIN PUMPING PLANT DELIVERY LINE NO. 1 RELINING RON MOUNTAIN PUMPING PLANT HOUSING REPLACEMENT
RON MOUNTAIN PUMPING PLANT SCADA SYSTEM RON MOUNTAIN SERVICE PIT REHABILITATION
ULIAN HINDS PUMPING PLANT DELIVERY PIPE EXPANSION JOINT PHASE 2 REPAIRS
ULIAN HINDS PUMPING PLANT DELIVERY PIPE EXPANSION JOINT PHASE I REPAIR AKE MATHEWS FOREBAY & HEADWORK FACILITY & EQUIPMENT
AKE MATHEWS FOREBAY WALKWAY REPAIRS
AKE MATHEWS ICS AKE MATHEWS INTERIM CHLORINATION SYSTEM
AKE SKINNER - OUTLET CONDUIT FLOWMETER INSTALLATION
AKE SKINNER BYPASS PIPELINE NO. 2 CATHODIC PROTECTION AKE SKINNER OUTLET CONDUIT
AKEVIEW PIPELINE LEAK REPAIR AT STA. 2510+49 AVERNE FACILITIES - EMERGENCY GENERATOR
AVERNE FACILITIES - MATERIAL TESTING
OWER FEEDER EROSION PROTECTION IAGAZINE CANYON - VALVE REPLACEMENT FOR SAN FERNADO TUNNEL (STATION 778+80)
IAGAZINE CANYON OIL & WATER SEPARATOR
IAGAZINE CANYON OIL/WATER SEPARATOR IAPES LAND ACQUISTION
IENTONE PPLN, RUSD, DEFENSE OF CLAIM IILE 12 FLOW AND CHLORINE MONITORING STATION UPGRADES
/ILE 12 POWER LINE & FLOW MONITORING EQUIPMENT STUDY
/IILLS PLANT SUPPLY PUMP STATION STUDY /INOR CAP FY 2011/12
IOTOR BREAKER FAULTY (5 PPLANTS)
IEWHALL TUNNEL - REPAIR STEEL LINER IEWHALL TUNNEL - UPGRADE LINER SYSTEM
ITROGEN STORAGE STUDY AT DVL, INLAND FEEDER PC-1, AND LAKE MATHEWS
DC 44 SERVICE CONNECTIONS & EOC#2 METER ACCESS ROAD REPAIR DC 88 PUMP PLANT FIRE PROTECTION STUDY
DC-71 SERVICE CONNECTION REPAIRS DLINDA PCS FACILITY REHABILITATION AND UPGRADE
DLINDA PRESSURE CONTROL STRUCTURE FACILITY REHABILITATION AND UPGRADE
)RANGE COUNTY 44 SERVICE CONNECTIONS & EOC#2 METER ACCESS ROAD REPAIR)RANGE COUNTY 88 PUMP PLANT FIRE PROTECTION STUDY
DWNER CONTROLLED INSURANCE PROGRAM
ALO VERDE VALLEY LAND PURCHASE - 16,000 ACRES ALOS VERDES FEEDER REHABILITATION OF DOMINGUEZ CHANNEL
PALOS VERDES RESERVOIR SPILLWAY MODIFICATION PROJECT MANAGEMENT SUPPORT
2UDDINGSTONE RADIAL GATE REHABILITATION
PURCHASE OF LAND AND RIGHT OF WAY
Real For CRA
REPAIR UPPER FEEDER LEAKING EXPANDSION JOINT REPAIRS TO TUNNELS
RIALTO FEEDER REPAIR @ STA. 3662+23 RIALTO FEEDER REPAIR OF ANOMALOUS PIPE SECTION
RIVERSIDE BADLANDS TUNNEL CONSTRUCTION
RIVERSIDE BRANCH - ALESSANDRO BLVD. LEFT LAND TURN LANE

TABLE 3		
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS		
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Description		
Conveyance and Aqueduct Facilites		
IVERSIDE BRANCH - CONSTRUCTION OF CONTROL PANEL DISPLAY WALL		
IVERSIDE NORTH PIPELINE DESIGN & CONSTRUCTION IVERSIDE SOUTH PIPELINE CONSTRUCTION		
INVERSIDE SOUTH FIFELINE CONSTRUCTION IAN DIEGO PIPELINE REPAIR AT STATION 1268+57		
AN FERNANDO TUNNEL STATION 778+80 VALVE REPLACEMENT		
AN GABRIEL TOWER SEISMIC ASSESSMENT AN GABRIEL TOWER SLIDE GATE REHABILITATION		
AN JACINTO TUNNEL EAST ADIT REHABILITATION		
AN JACINTO TUNNEL, WEST PORTAL AN JOAQUIN RESERVOIR - NEW DESIGN		
AN JOAQUIN RESERVOIR IMPROVEMENT- FLOATING COVER		
AN JOAQUIN RESERVOR IMPROVEMENTS		
AN JOAQUIN RESERVOIR IMPROVEMENTS STUDY AND TRAP CLEANING EQUIPMENT AND TRAVELING CRANE STUDY		
ANTA ANA RIVER BRIGDE SEISMIC RETROFIT		
ANTIAGO TOWER ACCESS ROAD UPGRADE ANTIAGO TOWER PATROL ROAD REPAIR		
JANTIAGO TOWER PATROL ROAD REPAIR DS REPAIR		
ECOND LOWER FEEDER STRAY CURRENT MITIGATION SYSTEMS REFURBISHMENT		
ECURITY FENCING AT OC-88 PUMPING PLANT EISMIC EVALUATION OF CRA STRUCTURES		
EISMIC PROGRAM		
EISMIC UPGRADE OF 11 FACILITIES OF THE CONVEYANCE & DISTRIBUTION SYSTEM		
EPULVEDA FEEDER CORROSION INI ERFERENCE MITIGATION EPULVEDA FEEDER REPAIR AT STATION 199		
EPULVEDA FEEDER STRAY CURRENT MITIGATION SYSTEM REFURBISHMENT		
ERVICE CONNECTION & EOCF #2 METER ACCESS ROAD UPGRADE & BETTERMENT ERVICE CONNECTION DWCV-2T VALVES REPLACEMENT AND STUCTURE CONSTRUCTION		
KINDER BR - IMPROVE CABAZON RADIAL GATE FACILITY		
SUCTION & DISCHARGE LINES EXPANSION JOINT STUDY SWITCHYARDS AND HEAD GATES REHAB		
WITCHTARDS AND HEAD GATES REHAB EMESCAL HYDRO-ELECTRIC PLANT ACCESS ROAD UPGRADE		
EMESCAL POWER PLANT ACCESS ROAD PAVING		
RANSFORMER OIL & CHEMICAL UNLOADING PAD CONTAINMENT RANSFORMER OIL AND SODIUM HYPOCHLORITE CONTAINMENT PROJECT		
IS. BUREAN OF LAND MANAGEMENT LAND ACQUISITION		
IPPER FEEDER CATHODIC PROTECTION SYSTEM		
IPPER FEEDER GATES REHABILITATION PROJECTS IPPER FEEDER LEAKING EXPANDSION JOINT REPAIR		
(ALLEY BRANCH - PIPELINE CORROSION TEST STATION		
VASTEWATER SYSTEM REHABILITATION - GENE/IRON MTN VASTEWATER SYSTEM REHABILITATION - HINDS/EAGLE MTN		
VAS LEW ALLEY FEEDER # CATHODIC PROTECTION SYSTEM REHABILITATION		
VHITE WATER SIPHON PROTECTION		
VHITEWATER SIPHON EROSION PROTECTION VHITEWATER SIPHON PROTECTION STRUCTURE		
Sub-total Conveyance and Aqueduct facilities costs	\$	82.714.645
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TABLE 3
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS
Description
Distribution Facilites 108TH STREET PRESSURE CONTROL STRUCTURE VALVE REPLACEMENT
42° CONICAL PLUG VALVE REPLACEMENT ACCUSONIC FLOW METER UPGRADE
ACCUSTIC FIBER OPTIC MONITORING OF PCCP LINES
ALAMEDA CORRIDOR PIPELINE ALL FACILITIES - WATER DISCHARGE ELIMINATION
ALL FACILITIES, INSPECTION AND REPLACEMENT OF CRITICAL VACUUM VALVES ALL FEEDERS - MANHOLE LOCKING DEVICE RETROFIT
ALL PUMPING PLANTS - INSTALL HYPOCHLORINATION STATIONS ALLEN MCCOLLOCH PIPELINE 2010 REFURBISHMENT
ALLEN MCCOLLOCH PIPELINE CATHODIC PROTECTION ALLEN MCCOLLOCH PIPELINE INTERCONNECTIONS
ALLEN MCCOLLOCH PIPELINE LOCAL CONTROL MODIFICATIONS ALLEN MCCOLLOCH PIPELINE REPAIR
ALLEN MCCOLLOCH PIPELINE REPAIR - CARBON FIBER LINING REPAIR ALLEN MCCOLLOCH PIPELINE REPAIR - SERVICE CONNECTIONS UPGRADES
ALLEN MCCOLLOCH PIPELINE REPAIR - STATION 276+63 ALLEN MCCOLLOCH PIPELINE REPAIR - STATION 276+63 ALLEN MCCOLLOCH PIPELINE REPAIR - SURGE SUPPRESSION SYSTEM AT OC88A
ALLEN MCCOLLOCH PIPELINE REPAIR - VALVE ACTUATOR REPLACEMENTS
ALLEN MCCOLLOCH PIPELINE REPAIR SERVICE CONNECTIONS SIMPLIFICATION ALLEN MCCOLLOCH PIPELINE STRUCTURE - ROOF SLAB REPAIRS
ALLEN MCCOLLOCH PIPELINE VALVE VAULT REPAIRS ALLEN-MCCOLLOCH CORROSION/INTERFERENCE MITIGATION, STATION 719+34 TO 1178+02
ALLEN-MCCOLLOCH PIPELINE ALLEN-MCCOLLOCH PIPELINE OC-76 TURNOUT RELOCATION
ALLEN-MCCOLLOCH PIPELINE PCCP REHABILITATION ALLEN-MCCOLLOCH PIPELINE REFURBISHMENT - STAGE 2
ALLEN-MCCOLLOCH PIPELINE VALVE AND SERVICE CONNECTION VAULT REPAIRS AMP -SERVICE CONNECTIONS UPGRADES
AMP -VALVE ACTUATOR REPLACEMENTS AMP COMPLETION RESOLUTION RIGHT OF WAY ISSUES
AMR - RTU UPGRADE - PHASE 2
ANODE WELL REPLACEMENT FOR ORANGE COUNTY AND RIALTO FEEDERS APPIAN WAY VALVE REPLACEMENT
ARROW HIGHWAY PROPERTY DEVELOPMENT ASPHALT REPAIRS TO PERIMETER OF SEPULVEDA PCS
ASSESS THE CONDITION OF METROPOLITAN'S PRESTRESSED CONCRETE CYLINDER PIPE ASSESS THE CONDITIONS OF MET'S
ASSESSMENT OF PRESTRESSED CONCRETE CYLINDER PIPELINES - PHASE 3 AULD VALLEY CONTROL STRUCTURE AREA FACILITIES
AUTOMATED RESERVOIR WATER QUALITY MONITORING AUTOMATIC METER READING SYSTEM - RTU UPGRADE PHASE 2
AUTOMATIC METER READING SYSTEM UPGRADE AUTOMATION COMMUNICATION UPGRADE
AUTOMATION DOCUMENTATION SURVEY F/A
BAR 97- ENHANCED AREA VEHICLE TESTING BATTERY MONITORING SYSTEM FOR AUTOMATIC METER READING SYSTEM
BIXBY VALVE REPLACEMENT BLACK METAL MOUNTAIN ELECTRICAL TRANSFORMER
BOX SPRINGS FEEDER BROKEN BACK REPAIR BOX SPRINGS FEEDER BROKEN BACK REPAIR PHASE I
BOX SPRINGS FEEDER PHASE 3 AND 4 ENVIRONMENTAL MONITORING BOX SPRINGS FEEDER REPAIR - PHASE II
BOX SPRINGS FEEDER REPAIRS PHASE 3 AND PHASE 4 C&D CRANE INSTALLATION AT OC-88 PUMPING PLANT
CAJALCO CREEK DAM MANHOLE COVER RETROFIT CAJALCO CREEK DETENTION DAM SPILLWAY ACCESS ROAD
CALABASAS FEEDER CARBON FIBER /BROKEN BACK REPAIR
CALABASAS FEEDER INTERFERENCE MITIGATION CALABASAS FEEDER PCCP REHABILITATION
CALABASAS FEEDER REPAIR, STUDY CAPITAL PROGRAM FOR PROJECTS COSTING LESS THAN \$250,000 FOR FY 2010/11
CAPITAL PROJECTS COSTING LESS THAN \$250,000 FOR FY2008-09 CARBON CREEK PRESSURE CONTROL STRUCTURE SEISMIC ASSESSMENT
CASA LOMA AND SAN DIEGO CANAL LINING STUDY - PART 2 CASA LOMA SIPHON BARREL 1 & 2 DVL AND SD CANAL FLOW METER REPLACEMENT
CASA LOMA SIPHON BARREL NO. 1 JOINT REPAIR CASA LOMA SIPHON NO 1, CASA LOMA CANAL & SAN DIEGO CANAL FLOW METER REPLACEMENT
CATHODIC PROTECTION FOR THE FOOTHILL FEEDER CATHODIC PROTECTION SYSTEM UPGRADES
CCP-PHASE 2 CONSTRUCTION CDSRP - DISCHARGE ELIMINATION
CDSRP - ENTRAINED AIR IN UPPER FEEDER PIPELINE STUDY
CDSRP - SEPULVEDA FEEDER REPAIRS CDSRP - SEPULVEDA TANKS RECOATING
CENTRAL POOL AUGMENTATION - TUNNEL AND PIPELINE & RIGHT-OF-WAY ACQUISITION CENTRAL POOL AUGMENTATION (CPA) PROGRAM - PIPELINE AND TUNNEL ALIGNMENT
CENTRAL POOL AUGMENTATION AND WATER QUALITY PROJECT (CPAWQP) CHEMICAL INVENTORY AND USAGE REWRITE AND ELECTRICAL. SYSTEM LOG
CHEMICAL UNLOADING FACILITY RETROFIT CHEVALIER FALCON MILLING MACHINE
COASTAL JUNCTION REVERSE FLOW BYPASS COASTAL PRESSURE CONTROL STRUCTURE ROOF REPLACEMENT
COLLIS AVENUE VALVE REPLACEMENT COLLIS VALVE REPLACEMENT
COLORADO RIVER AQUEDUCT CASA LOMA SIPHON BARREL NO. 1 PROJECT NO. 2 - PERMANENT REPAIRS
COMMUNICATIONS STRUCTURE ALARM MONITORING COMPREHENSIVE INFORMATION SECURITY ASSESSMENT PHASE III
CONSTRUCTION PHASE 2 CONTRACT & LITIGATION TASKS -CONTRACT # 1396
CONTROL SYSTEM DATA STORAGE AND REPORTING CONTROL SYSTEM DRAWING & DOCUMENTATION UPDATE
CONTROL SYSTEM ENHANCEMENT PROGRAM (CSEP) - DIGITAL SUBNET STANDARDIZATION CONTROL SYSTEMS AUTOMATION COMMUNICATION UPGRADE
CONTROLS COMMUNICATIONS FRAME RELAY CONVERSION - APPROPRIATED

TABLE 3
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS
Description
Description Distribution Facilites
CONVERSION OF DEFORMATION SURVEY MONITORING AT GENE WASH, COPPER BASIN, AND DIEMER BASIN 8
CONVEYANCE AND DISTRIBUTION SYSTEM ELECTRICAL STRUCTURES REHABILITATION CONVEYANCE AND DISTRIBUTION SYSTEM REHABILITATION PROGRAM (CDSRP) - CURRENT DRAIN STATIONS
COPPER BASIN ICS
COPPER BASIN SEWER SYSTEM CORONA POWER PLANT REPLACE EMERGENCY GENERATOR
CORROSION MATERIALS TESTING FACILITY SCADA UPGRADE
COVINA PRESSURECONTROL FACILITY COYOTE CREEK NORTHERN PERIMETER LANDSCAPING
COYOTE PRESSURE CONTROL STRUCTURE ROOF REPLACEMENT CPA PIPELINE & TUNNEL ALIGNMENT
CPA PIPELINE & TUNNEL ALIGNMENT - NON FUNDED PORTION
CPA PIPELINE & TUNNEL ALIGNMENT - STUDY CPA WATER TREATMENT PLANT - NON FUNDED PORTION
CPA WATER TREATMENT PLANT - RIGHT OF WAY - PHASE 2 CPAWQP - PHASE 2
CPAWQP - STUDY AND LAND ACQUISITION - CONTINGENCY
CPAWQP - STUDY AND LAND ACQUISITION - PIPELINE & TUNNEL ALIGNMENT - STUDY CPAWQP - STUDY AND LAND ACQUISITION - RIGHT-OF-WAY-ACQUISITION
CPAWQP - STUDY AND LAND ACQUISITION - WATER TREATMENT PLANT - RIGHT OF WAY - PHASE 2
CPAWQP - STUDY AND LAND ACQUISITION - WATER TREATMENT PLANT - STUDY CRA - PC-1 EFFLUENT OPEN CHANNEL TRASH RACK
CRA CABAZON & POTRERO SHAFT COVERS CRA CONTROL INTEGRATION
CRA PROTECTIVE SLAB AT STATION 9704+77
CROSS CONNECTION PREVENTION PROGRAM - PHASE II CONSTRUCTION CROSS CONNECTION PREVENTION PROJECT, COMPLETE PRELIMINARY DESIGN AND CEQA DOCUMENTATION
CSEP - ELECTRONIC SYSTEM LOG (ESL) CSEP - ENERGY MANAGEMENT SYSTEM PHASE II
CSEP - ENHANCED DISTRIBUTION SYSTEM CONTROL PROJECT
CSEP - IMPLEMENTATION CSEP - OPERATIONS & BUSINESS DATA INTEGRATION PILOT
CSEP - PLANT INFLUENT REDUNDANT FLOW METERING AND SPLITTING CSEP - PLC PHASE 2 - LIFE-CYCLE REPLACEMENT
CSEP - PLC STANDARDIZATION
CSEP - PLC STANDARDIZATION PHASE II CSEP - POWER MANAGEMENT SYSTEM
CSEP - WATER PLANNING APPLICATION
CSEP IMPLEMENTATION CSEP- SMART OPS (FORMERLY REAL TIME OPERATIONS SIMULATION)
CURRENT DRAIN STATIONS DAM REHABILITATION & SAFETY IMPROVEMENTS ST. JOHN'S CANYON CHANNEL EROSION MITIGATION
DANBY TOWER FOUNDATION INVESTIGATION AND SHORT TERM MITIGATION
DEODERA PCS PAVEMENT UPGRADE & BETTERMENT DESERT BRANCH - REPLACE STOLEN COPPER GROUND WIRE FOOTINGS/GROUNDING, AND COPPER PIPING
DESERT BRANCH PUMP PLANT AUXILIARY (STATION SERVICE)
DESERT BRANCH, PURCHASE & INSTALL 5 PORT VIDEO CONFERENCING DESERT FACILITIES DOMESTIC WATER GAC SYSTEM INSTALLATION
DESERT HIGH VOLTAGE TRANSMISSION TOWERS - REPLACE COPPER GROUND WIRES ON DETAIL SEISMIC EVALUATION OF WATER STORAGE TANK
DFP - ELIMINATE BACKUP GENERATOR TIE-BUS & INSTALL MANUAL TRANSFER SWITCH FOR CHLORINE SCRUBBER
DIEMER FILTRATION PLANT - SLOPE REPAIR DISCHARGE ELIMINATION
DIST SYS-AIR RELEASE & VAC VALVE MODS DISTRIBUTION SYSTEM - CCPP CONSTRUCTION PACKAGES 9,11,12
DISTRIBUTION SYSTEM - STANDPIPE STRENGTHENING PROGRAM
DISTRIBUTION SYSTEM - STATIONARY CORROSION REFERENCE DISTRIBUTION SYSTEM - TREATED WATER CROSS CONNECTION PREVENTION PROJECT - FINAL DESIGN & CONSTRUCTION
DISTRIBUTION SYSTEM ASSESSMENTS/UPGRADES OF LOS ANGELES COUNTY
DISTRIBUTION SYSTEM ASSESSMENTS/UPGRADES OF RIVERSIDE AND SAN DIEGO COUNTY DISTRIBUTION SYSTEM ASSESSMENTS/UPGRADES OF SAN BERNARDINO COUNTY
DISTRIBUTION SYSTEM CONTROL & EQUIP UPGRADE - ENHANCED DISTRIB. SYSTEM AUTOMATION PHASE I DISTRIBUTION SYSTEM EQUIPMENT & INSTRUMENTATION UPGRADES
DISTRIBUTION SYSTEM INFRASTRUCTURE PROTECTION IMPROVEMENTS FOR ORANGE COUNTY
DISTRIBUTION SYSTEM REHABILITATION PROGRAM - ASSESS THE STATE OF MWD'S DISTRIBUTION SYSTEM DISTRIBUTION SYSTEM REPLACEMENT OF AREA CONTROL SYSTEMS - WILLOWGLEN RTUS ADMINISTRATION
DISTRIBUTION SYSTEM REPLACEMENT OF AREA CONTROL SYSTEMS (DSRACS) DISTRICT WIDE - ENHANCED VAPOR RECOVERY PHASE 2 GASOLINE DISPENSING
DSRACS - OPERATIONS CONTROL CENTER - CONTRACT #1396
DSRACS - SKINNER AREA DSRACS - SOFTWARE DEVELOPMENT COST
DSRACS - WEYMOUTH DVL & CONTROL SYSTEM REPLACEMENT INVESTIGATION & PREPARATION FOR PRELIMINARY DESIGN
EAGLE EQUIPMENT WASH AREA UPGRADE
EAGLE ROCK - ASPHALT REHABILITATION EAGLE ROCK - FIRE PROTECTION AT THE WESTERN AREA OF THE EAGLE ROCK CONTROL CENTER PERIMETER GROUNDS
EAGLE ROCK CONTROL CENTER FIREHYDRANT EAGLE ROCK LATERAL INTERCONNECTION REPAIR
EAGLE ROCK MAIN BUILDING ROOF REPLACEMENT - STUDY
EAGLE ROCK OCC - REHAB CONTROL ROOM EAGLE ROCK OPERATIONS CONTROL CENTER
EAGLE ROCK RESIDENCE CONVERSION
EAGLE ROCK TOWER AND PUDDINGSTONE SPILLWAY GATES REHABILITATION EAGLE ROCK TOWER SLIDEGATE REHABILITATION
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EAST VALLEY FEEDER VALVE STRUCTURE ELECTRICAL UPGRADE
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ELECTRICAL UPGRADES AT 15 STRUCTURES IN THE OC REGION
ELECTROMAGNETIC INSPECTIONS OF PCCP LINES ELECTRONIC SYSTEM LOG (ESL)

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LA VERNE MACHINE SHOP - REPAIR HORIZONTAL BORING MILL LA-35 DISCHARGE STRUCTURE REPAIRS LAKE MATHEWS - CONSTRUCTURO OF BACKUP COMPUTER FACILITIES LAKE MATHEWS - FORESION TUNNEL WALKWAY REPAIR LAKE MATHEWS - FOREBAY MCC ROOF IMPROVEMENT LAKE MATHEWS - FOREBAY MCC ROOF IMPROVEMENT LAKE MATHEWS - MULTIPLE SPECIES MANAGER'S OFFICE & RESIDENCE LAKE MATHEWS - MULTIPLE SPECIES MANAGER'S OFFICE & RESIDENCE LAKE MATHEWS - RENOVATION OF BLDGS. & 15, GENERAL ASSEMBLY & ADMIN. BLDG. OFFICE AREAS LAKE MATHEWS - RENOVATION OF BLDGS. & 15, GENERAL ASSEMBLY & ADMIN. BLDG. OFFICE AREAS LAKE MATHEWS - RENOVATION OF BLDGS. & 15, GENERAL ASSEMBLY & ADMIN. BLDG. OFFICE AREAS	LA VERNE FACILITIES - REPLACEMENT OF FLOCCULATOR STUB SHAFT - BASINS 1 & 2 LA VERNE MACHINE SHOP - AIR CONDITIONING UNIT REPLACEMENT
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LAKE MATHEWS - FOREBAY MCC ROOF IMPROVEMENT LAKE MATHEWS - MAIN DAM TOE SEEPAGE COLLECTION LAKE MATHEWS - MULTIPLE SPECIES MANAGER'S OFFICE & RESIDENCE LAKE MATHEWS - RENOVATION OF BLDGS. & 8 15, GENERAL ASSEMBLY & ADMIN. BLDG. OFFICE AREAS LAKE MATHEWS - RETROFIT LOWER ENTRANCE GATE SWING ARM	LAKE MATHEWS - DIVERSION TUNNEL WALKWAY REPAIR
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LAKE MATHEWS - RENOVATION OF BLDGS. 8 & 15, GENERAL ASSEMBLY & ADMIN. BLDG. OFFICE AREAS LAKE MATHEWS - RETROFIT LOWER ENTRANCE GATE SWING ARM	LAKE MATHEWS - MAIN DAM TOE SEEPAGE COLLECTION LAKE MATHEWS - MULTIPLE SPECIES MANAGER'S OFFICE & RESIDENCE
	LAKE MATHEWS - RENOVATION OF BLDGS. 8 & 15, GENERAL ASSEMBLY & ADMIN. BLDG. OFFICE AREAS
	LAKE MATHEWS - RETROFTI LOWER ENTRANCE GATE SWING ARM LAKE MATHEWS FOREBAY MCC ROOF IMPROVEMENT

TABLE 3
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS
Description
Description Distribution Excilition
Distribution Facilites Lake mathews main dam toe seepage collection
LAKE MATHEWS RETROFIT LOWER ENTRANCE GATE SWING ARM
LAKE PERRIS BYPASS PIPELINE EXPLORATION LAKE PERRIS EMERGENCY STANDBY GENERATOR AND TRANSFER SWITCH REPLACEMENT
LAKE SKINNER - AERATOR AIR COMPRESSOR REPLACEMENT
LAKE SKINNER - OUTLET TOWER VALVE REHABILITATION LAKE SKINNER - REPLACEMENT AERATOR RING
LAKE SKINNER AERATOR AIR COMPRESSOR REPLACEMENT
LAKE SKINNER AREA DISTRIBUTION SYSTEM VALVE REPLACEMENT LAKE SKINNER DAM ROAD REHAB
LAKE SKINNER EAST BYPASS SCREENING STRUCTURES
LAKE SKINNER OUTLET TOWER CHLORINE SYSTEM MODIFICATION LAKE SKINNER WEST BYPASS SCREENING STRUCTURE
LAKE SKINNER WEST BYPASS SCREENING STRUCTURE REHABILITATION LAKE VIEW PIPE LINE REPAIRS
LAKEVIEW PIPELINE - REPLACE VACUUM/AIR RELEASE
LAKEVIEW PIPELINE CATHODIC PROTECTION SYSTEM LAKEVIEW PIPELINE REPAIR
LOWER FEEDER - CATHODIC PROTECTION
LOWER FEEDER WR 33 - AREA REPAIR AND REMEDIATION MAGAZINE CANYON CANOPY
MAGAZINE CANYON-ISOLATION GATE JACKING FRAME
MAPES LAND ACQUISTION MICROWAVE COMMUNICATION SITES BUILDING UPGRADE
MIDDLE CROSS FEEDER CATHODIC PROTECTION
MIDDLE FEEDER - CATHODIC PROTECTION SYSTEMS MIDDLE FEEDER - NORTH CATHODIC PROTECTION SYSTEM
MIDDLE FEEDER BLOW-OFF VALVE REPLACEMENT AT STA 782+53.16
MIDDLE FEEDER NORTH CATHODIC PROTECTION SYSTEM MIDDLE FEEDER RELOCATION FOR SCE MESA SUBSTATION
MILLS FILTRATION PLANT - INVESTIGATION TO RELOCATE ACCESS ROAD
MINOR CAP 08/09 PLACEHOLDER MINOR CAP FY 2009/10
MINOR CAP FY 2012/13
MINOR CAP FY 2014/16 MINOR CAPITAL PROJECTS PROGRAM 07/08 - REMAINING FUNDS
MOUNT OLYMPUS TUNNEL COST RIGHT-OF-WAY (ROW)
MWD ROAD GUARDRAIL NITROGEN STORAGE COMPLIANCE AT DVL, INLAND FEEDER PCS, AND LAKE MATHEWS
NITROGEN STORAGE STUDY
NON PCCP LINES CONDITION INSPECTION AND ASSESSMENT NORTH PORTAL OF HOLLYWOOD TUNNEL
NORTH REACH CONSTRUCTION / INSPECTION / CM
NORTH REACH CONSTRUCTION/ASBUILT NORTH REACH ENVIRONMENTAL - CONSTRUCTION
NORTH REACH FINAL DESIGN & ADV/NTP
NORTH REACH POST DESIGN / ASBUILT NORTH REACH PROGRAM MANAGEMENT - CONSTRUCTION
NORTHERN PIPELINE ENVIRONMENTAL FINAL DESIGN
NORTHERN PIPELINE RIGHT OF WAY FINAL DESIGN OAK ST. PCS ROOF REPLACEMENT
OAK STREET PRESSURE CONTROL STRUCTURE ROOF REPLACEMENT - CONSTRUCTION
OC 44 SERVICE CONNECTIONS & EOC#2 METER ACCESS ROAD REHAB OC FEEDER STA 1920+78 BLOWOFF STRUCTURE & RIP-RAP REPAIRS
OC RESERVOIR SODIUM HYPOCHLORITE PUMP AND PIPING REPLACEMENT
OC-71 FLOW CONTROL FACILITY OC-88 - SECURITY FENCING AT PUMP PLANT
OC-88 EMERGENCY STANDBY GENERATOR UPGRADE STUDY
OC-88 PUMP PLANT AIR COMPRESSOR UPGRADE OC-88 PUMP STATION FLOW METER UPGRADE
OC-88 PUMPING PLANT SURGE TANKS UPGRADES OLINDA PCS AND SANTIAGO TOWER EMERGENCY GENERATORS
OLINDA PCS VALVE REPLACEMENT
OLINDA PRESSURE CONTROL STRUCTURE
OLINDA PRESSURE CONTROL STRUCTURE AND SANTIAGO TOWER EMERGENCY GENERATORS ON-CALL RESOURCES MANAGEMENT APPLICATION
OPERATIONS CONTROL CENTER AT EAGLE ROCK OPERATIONS CONTROL CENTER UPS REPLACEMENT
OPERATIONS SCOPING STUDY
ORANGE CO FDR, BLOW-OFF STRUCTURE AND ACCESS ROAD REPAIR ORANGE COUNTY - 88 PUMP PLANT AIR COMPRESSOR UPGRADE
ORANGE COUNTY - 88 SECURITY FENCING AT PUMP PLANT
ORANGE COUNTY AREA DISTRIBUTION SYSTEM VALVE REPLACEMENT ORANGE COUNTY C & D ELECTRICAL IMPROVEMENTS - STUDY
ORANGE COUNTY C&D INSTRUMENTATION PANEL IMPROVEMENTS
ORANGE COUNTY C&D TEAM SUPPORT FACILITY ORANGE COUNTY CONVEYANCE AND DISTRIBUTION SERVICE CENTER
ORANGE COUNTY FEEDER CATHODIC PROTECTION
ORANGE COUNTY FEEDER EXTENSION LINING REPAIR ORANGE COUNTY FEEDER INSPECTION
ORANGE COUNTY FEEDER INTERNAL INSPECTION STUDY
ORANGE COUNTY FEEDER LINING REPAIRS ORANGE COUNTY FEEDER PRESSURE CONTROL STRUCTURES
ORANGE COUNTY FEEDER RELOCATION IN FULLERTON
ORANGE COUNTY FEEDER SCHEDULE 37SC CATHODIC PROTECTION ORANGE COUNTY FEEDER STA 1920+78 BLOWOFF STRUCTURE & RIP-RAP REPAIRS
ORANGE COUNTY RESERVOIR - INSTALL HYPOCHLORINATION STATIONS
ORANGE COUNTY RESERVOIR - PIEZOMETERS & SEEPAGE MONITORING AUTOMATION OXIDATION DEMONSTRATION PLANT CONTROL SYSTEM REPLACEMENT
PALOS ALTOS FEEDER - 108TH ST.
PALOS VERDES FEEDER - LONG BEACH LATERAL TURNOUT STRUCTURES STA. 1442+15 VALVE REPLACEMENTS PALOS VERDES FEEDER PCS - VALVE REPLACEMENT
PALOS VERDES RESERVOIR - INSTALL HYPOCHLORINATION STATIONS
IPC-1 EFFLUENT OPEN CHANNEL TRASH RACK IPC-1 EFFLUENT OPEN CHANNEL TRASH RACK PROJECT
PCCP HYDRAULIC ANALYSES

TABLE 3
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS
Description
Distribution Facilites
PCCP REHABILITATION - PROGRAM MANAGEMENT
PERIMETER FENCING AT PLACERITA CREEK PERMANENT LEAK DETECTION/PIPELINE MONITORING SYSTEM
PERRIS PCS - UNINTERRUPTIBLE POWER SOURCE SYSTEMS INSTALLATION
PERRIS PCS ROOF REHAB PERRIS PRESSURE CONTROL STRUCTURE ROOF REPLACEMENT
PERRIS PUMPBACK COVER PERRIS VALLEY PIPELINE - DESIGN-BUILD (EMWD)
PERRIS VALLEY PIPELINE - GENERAL
PERRIS VALLEY PIPELINE - NORTH REACH PERRIS VALLEY PIPELINE - RESERVED FOR STAGE II DESIGN / BUILD
PERRIS VALLEY PIPELINE - SOUTH REACH PERRIS VALLEY PIPELINE - STUDY
PERRIS VALLEY PIPELINE - TIE-IN (WMWD)
PERRIS VALLEY PIPELINE - TUNNELS PERRIS VALLEY PIPELINE - VALVES
PERRIS VALLEY PIPELINE DESIGN-BUILD (EMWD)
PERRIS VALLEY PIPELINE NORTH REACH PERRIS VALLEY PIPELINE SOUTH REACH
PERRIS VALLEY PIPELINE TIE-IN (WMWD) PERRIS VALLEY PIPELINE VALVES
PLACENTIA RAILROAD LOWERING PROJECT
PLACERITA CREEK PERIMETER FENCING PLANT INFLUENT REDUNDANT FLOW METERING AND SPLITTING
PLC REPLACEMENT PHASE II PRESTRESSED CONCRETE CYLINDER PIPE - PHASE 2
PRESTRESSED CONCRETE CYLINDER PIPE (PCCP) STRUCTURAL PEFORMANCE RISK ANALYSIS
PRESTRESSED CONCRETE CYLINDER PIPE -PHASE 3 PROGRAMATTIC ENVIRONMENTAL DOCUMENTATION OF ORANGE COUNTY
PROGRAMATTIC ENVIRONMENTAL DOCUMENTATION OF SAN BERNARDINO COUNTY PROGRAMMABLE LOGIC CONTROLLER (PLC) STANDARDIZATION
PROGRAMMATIC ENVIRONMENTAL DOCUMENTATION FOR THE LOS ANGELES CO. OPERATING REGION
PROGRAMMATIC ENVIRONMENTAL DOCUMENTATION FOR THE ORANGE COUNTY OPERATING REGION PROGRAMMATIC ENVIRONMENTAL DOCUMENTATION FOR THE RIVERSIDE/SAN DIEGO CO. OPERATING REGION
PROGRAMMATIC ENVIRONMENTAL DOCUMENTATION FOR THE WESTERN SAN BERNARDINO COUNTY OPERATING REGION
PUDDINGSTONE SPILLWAY CROSS CONNECTION PV RESERVOIR HYPOCHLORITE PUMP AND PIPING REPLACEMENT
R&R FOR DISTRIBUTION REAL PROPERTY ACQUISITION
RED MOUNTAIN - OCT. 2007 FIRE DAMAGE - COMMUNICATION POWER TOWERS & METER STRUCTURES REPAIR/REPLACE (INCIDENT NO. 2007-1023-0271)
RED MOUNTAIN HEP FLOOD DAMAGE RED MTN COMM. TOWER & METER STRUCTURE
REHABILITATION OF THE GREG AVE PCS CONTROL BUILDING INTERIOR RELOCATION OF ORANGE COUNTY FEEDER
RELOCATION OF PORTION OF ORANGE COUNTY FEEDER (MWD'S SHARE)
REMAINING PORTIONS REPAIRS TO THE LA-35 DISCHARGE STRUCTURE
REPLACE 2 FIRE & DOMESTIC WATER SYSTEM REPLACE COMMUNICATION LINE TO THE SAN GABRIEL CONTROL TOWER
REPLACE COPPER GROUNDWIRES ON DESERT HIGH VOLTAGE TRANSMISSION TOWERS
REPLACE VALVE POSITION INDICATORS REPLACEMENT OF COMMUNICATION LINE AT SAN GABRIEL TOWER
REPLACEMENT/ RELINE AT-RISK PCCP LINES - STAGE 1
RIALTO FEEDER BROKEN BACK REPAIR RIALTO FEEDER VALVE STRUCTURE
RIALTO FEEDER, REPAIRS AT SELECT LOCATIONS, STUDY RIALTO PIPELINE - CONSTRUCTION PHASE 1
RIALTO PIPELINE - CONSTRUCTION PHASE 2
RIALTO PIPELINE IMPROVEMENTS RIALTO PIPELINE IMPROVEMENTS - CONSTRUCTION
RIALTO PIPELINE IMPROVEMENTS - CONSTRUCTION PHASE III RIALTO PIPELINE IMPROVEMENTS - DESIGN PHASE 2
RIALTO PIPELINE IMPROVEMENTS - DESIGN PHASE 3
RIALTO PIPELINE IMPROVEMENTS - FINAL DESIGN RIALTO PIPELINE IMPROVEMENTS - VALVE PROCUREMENT
RIALTO PIPELINE IMPROVEMENTS PHASE 1 FINAL DESIGN RIALTO PIPELINE PCCP REHABILITATION
RIALTO PIPELINE REPAIR @ STA 3196+44
RIALTO PIPELINE REPAIR AT THOMPSON CREEK RIALTO PIPELINE REPAIRS AT STATION 3198+44
RIALTO PIPELINE VALVE PROCUREMENT
RIGHT OF WAY INFRASTRUCTURE PROTECTION PROGRAM - LOS ANGELES COUNTY REGION RIGHT OF WAY INFRASTRUCTURE PROTECTION PROGRAM - O. C. REGION
RIGHT OF WAY INFRASTRUCTURE PROTECTION PROGRAM - RIVERSIDE AND SAN DIEGO COUNTY REGION RIGHT OF WAY INFRASTRUCTURE PROTECTION PROGRAM - WESTERN SAN BERNARDINO COUNTY REGION
RIGHT OF WAY SURVEY AND MAPPING
RIO HONDO PRESSURE CONTROL STRUCTURE VALVE REPLACEMENTS ROBERT B. DIEMER FILTRATION PLANT - LAND ACQUISITION
ROOF REPLACEMENT AT SOTO ST. FACILITY SAN DIEGO #3 BLOWOFF TO PUMPWELL CONVERSION
SAN DIEGO CANAL - EAST & WEST BYPASS SCREENING STRUCTURES STUDY
SAN DIEGO CANAL - ELECTRICAL VAULT & CONDUCTOR REPLACEMENT SAN DIEGO CANAL - FENCING
SAN DIEGO CANAL - INSTALL ACOUSTIC FLOW METER SAN DIEGO CANAL - PIEZOMETER
SAN DIEGO CANAL - REPLACE SODIUM BISULFATE TANK
SAN DIEGO CANAL - SEEPAGE STUDY SAN DIEGO CANAL BISULFITE TANK REPLACEMENT
SAN DIEGO CANAL LINER REPAIR SAN DIEGO CANAL RADIAL GATE (V0-6) REHABILITATION
SAN DIEGO CANAL RADIAL GATE (VO-8) REHABILITATION
SAN DIEGO CANAL RADIAL GATE REHAB SAN DIEGO CANAL SEEPAGE STUDY
SAN DIEGO CANAL WEST BYPASS TRASH RACK
SAN DIEGO PIPELINE #4 VALVE REPLACEMENT SAN DIEGO PIPELINE 1 BLOW-OFF VALVE REPLACEMENT
SAN DIEGO PIPELINE 3 & 5 REMOTE CONTROL OF BYPASS

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TABLE 3 CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS

Description
Distribution Facilites
SAN DIEGO PIPELINE 4 AND AULD VALLEY PIPELINE CARBON FIBER REPAIRS
SAN DIEGO PIPELINE 5 & LAKE SKINNER OUTLET REPAIR
SAN DIEGO PIPELINE 6 - PRESSURE CONTROL STRUCTURE/HYDROELECTRIC PLANT - FEASIBILITY STUDY
SAN DIEGO PIPELINE 6 NORTH REACH, ENVIRONMENTAL MONITORING DURING CONSTRUCTION
SAN DIEGO PIPELINE NO. 3 BYPASS
SAN DIEGO PIPELINE NO. 3 PIPING MODIFICATIONS
SAN DIEGO PIPELINE NO. 5 - OCT. 2007 FIRE DAMAGE - REPLACE ABOVE GROUND CORROSION CONTROL SYSTEM EQUIPMENT, AND STRUCTURAL APPURTENANCES
SAN DIEGO PIPELINE NO. 6 - RIVERSIDE BRANCH - ETIWANDA FACILITY/DROP INLET STRUCTURE SAN DIEGO PIPELINE NO. 6 - RIVERSIDE BRANCH - PLEASANT PEAK, COMMUNICATIONS
SAN DIEGO PIPELINE NO. 6 - RIVERSIDE TUNNEL COST OF RIGHT OF WAY (OPTIONAL PORTAL SITE)
SAN DIEGO PIPELINE NO. 6 - RIVERSIDE TUNNEL ENVIRONMENTAL CONSTRUCTION
SAN DIEGO PIPELINE NO. 6 - RIVERSIDE TUNNEL ENVIRONMENTAL PRELIMINARY DESIGN
SAN DIEGO PIPELINE NO. 6 - RIVERSIDE TUNNEL PRELIMINARY DESIGN
SAN DIEGO PIPELINE NO. 6 - RIVERSIDE TUNNEL PROGRAM MANAGEMENT
SAN DIEGO PIPELINE NO. 6 - RIVERSIDE TUNNEL RIGHT OF WAY PRELIMINARY DESIGN
SAN DIEGO PIPELINE NO. 6 - CONTRACT NO.1 SAN DIEGO CANAL TO MOUNT OLYMPUS SAN DIEGO PIPELINE NO. 6 - CONTRACT NO.2 MOUNT OLYMPUS TUNNEL & PORTALS
SAN DIEGO PIPELINE NO. 6 - NORTH REACH CONSTRUCTION - AS BUILT
SAN DIEGO PIPELINE NO. 6 - NORTH REACH ENVIRONMENTAL - CONSTRUCTION
SAN DIEGO PIPELINE NO. 6 - NORTH REACH ENVIRONMENTAL PRELIMINARY DESIGN
SAN DIEGO PIPELINE NO. 6 - NORTH REACH FINAL DESIGN & ADV/NTP
SAN DIEGO PIPELINE NO. 6 - NORTH REACH POST DESIGN
SAN DIEGO PIPELINE NO. 6 - NORTH REACH PRELIMINARY DESIGN
SAN DIEGO PIPELINE NO. 6 - NORTH REACH PROGRAM MANAGEMENT - CONSTRUCTION
SAN DIEGO PIPELINE NO. 6 - NORTH REACH PROGRAM MANAGEMENT - DESIGN SAN DIEGO PIPELINE NO. 6 - NORTH REACH RIGHT OF WAY FINAL DESIGN
SAN DIEGO PIPELINE NO. 6 - NORTH REACH RIGHT OF WAT PIRAL DEGISION SAN DIEGO PIPELINE NO. 6 - NORTH REACH RIGHT OF WAY PRELIMINARY DESIGN
SAN DIEGO PIPELINE NO. 6 - NORTHERN PIPELINE COST OF RIGHT OF WAY
SAN DIEGO PIPELINE NO. 6 - NORTHERN REACH ENVIRONMENTAL FINAL DESIGN
SAN DIEGO PIPELINE NO. 6 - OPERATIONS SCOPING STUDY
SAN DIEGO PIPELINE NO. 6 - PIPELINE/TUNNEL STUDY - DESIGN
SAN DIEGO PIPELINE NO. 6 - PIPELINE/TUNNEL STUDY - ENVIRONMENTAL
SAN DIEGO PIPELINE NO. 6 - PIPELINE/TUNNEL STUDY - PROJECT MANAGEMENT SAN DIEGO PIPELINE NO. 6 - PIPELINE/TUNNEL STUDY - RIGHT OF WAY
SAN DIEGO PIPELINE NO. 6 - PROJECT MANAGEMENT
SAN DIEGO PIPELINE NO. 6 - RIGHT OF WAY
SAN DIEGO PIPELINE NO. 6 - SOUTH REACH - PROGRAM MANAGEMENT
SAN DIEGO PIPELINE NO. 6 - SOUTH REACH / TUNNEL STUDY
SAN DIEGO PIPELINE NO. 6 - SOUTH REACH CONSTRUCTION / AS BUILT
SAN DIEGO PIPELINE NO. 6 - SOUTH REACH COST OF RIGHT OF WAY
SAN DIEGO PIPELINE NO. 6 - SOUTH REACH ENVIRONMENTAL - CONSTRUCTION SAN DIEGO PIPELINE NO. 6 - SOUTH REACH ENVIRONMENTAL FINAL DESIGN
SAN DIEGO PIPELINE NO. 6 - SOUTH REACH ENVIRONMENTAL PRELIMINARY DESIGN
SAN DIEGO PIPELINE NO. 6 - SOUTH REACH FINAL DESIGNADV
SAN DIEGO PIPELINE NO. 6 - SOUTH REACH PRELIMINARY DESIGN
SAN DIEGO PIPELINE NO. 6 - SOUTH REACH RIGHT OF WAY FINAL DESIGN
SAN DIEGO PIPELINE NO. 6 - SOUTH REACH RIGHT OF WAY PRELIMINARY DESIGN
SAN DIEGO PIPELINE NO. 6 - SOUTH REACH TUNNEL ALIGNMENT ANALYSIS
SAN DIEGO PIPELINE NO. 6 AREA STUDY
SAN DIEGO PIPELINE NO. 6 ENVIRONMENTAL MITIGATION SAN DIEGO PIPELINE NO.4 & AULD VALLEY PIPELINE CARBON FIBER REPAIR STUDY
SAN DIEGO PIPELINE NOS. 1AND 3 - VALVE REPLACEMENT
SAN DIMAS AND RED MOUNTAIN POWER PLANTS STANDBY DIESEL ENGINE GENERATOR REPLACEMENTS
SAN DIMAS CONTROL STRUCTURE 500 GALLONS DIESEL TANK REPLACEMENT
SAN DIMAS HEP BATTERY BANK AND GENERATOR BREAKER
SAN DIMAS PCS - UNINTERRUPTIBLE POWER SOURCE SYSTEMS INSTALLATION
SAN FRANCISQUITO PIPELINE BLOW OFF STRUCTURE, STA 287+70, ACCESS ROAD CONSTRUCTION
SAN GABRIEL TOWER SEISMIC UPGRADE SAN GABRIEL TOWER SLIDE GATE REHABILITATION
SAN JACINTO #1 AND #2 CASA LOMA FAULT CROSSING STRUCTURE UPGRADE
SAN JACINTO DIVERSION STRUCTURE SLIDE GATE V-03 REPLACEMENT
SAN JOAQUIN RELIEF STRUCTURE FOR EASTERN ORANGE COUNTY FEEDER #2
SAN JOAQUIN RELIEF STRUCTURE FOR EASTR OC FDR #2
SAN JOAQUIN RESERVOIR, INSTALL BULKHEAD
SANTA ANA RIVER BRIDGE EXPANSION JOINT REPLACEMENT
SANTA ANA RIVER BRIDGE SEISMIC RETROFIT SANTA ANA RIVER BRIDGE SEISMIC UPGRADE
SANTA ANNA NICK PREIDER RELOCATION
SANTA MONICA FEEDER STATION 495+10 REHABILITATION
SANTIAGO CONTROL TOWER CATHODIC PROTECTION
SANTIAGO LATERAL REPLACE MOTOR - OPERATED VALVE
SANTIAGO LATERAL SECTIONALIZATION VALVE REPLACEMENT
SANTIAGO LATERAL STA 216+40 BUTTERFLY VALVE REPLACEMENT
SANTIAGO PRESSURE CONTROL STRUCTURE
SANTIAGO TOWER ACCESS ROAD IMPROVEMENT SCADA COMMUNICATIONS MPLS UPGRADE - AT&T REGION (MINOR CAP)
SCADA COMMUNICATIONS MPLS UPGRADE - ATRA TREGION (MINOR CAP) SCADA COMMUNICATIONS MPLS UPGRADE - VERIZON REGION (MINOR CAP)
SCADA SUSTEM HARDWARE UPGRADE
SCADA SYSTEM NT SOFTWARE UPGRADE
SCADA SYSTEM SUPPORT PROGRAMS
SD AND CASA LOMA CANALS LINING
SD CANAL EAST & WEST BYPASS SCREENING STRUCTURES STUDY
SD CANAL REPLACE SODIUM BISULFITE TANK
SD PIPELINE 3 CULVERT ROAD REHAB SD PIPELINE 3,4, AND 5 PROTECTIVE COVER
SD PIPELINE 3,4, AND 5 PKOLIEC LIVE OVER SD PIPELINE 4 EXPLORATORY EXCAVATION
SD PIPELINE 5 EXPLORATOTY EXCAVATION
SD PIPELINES 3 AND 5 REMOTE CONTROL BYPASS STRUCTURE GATES AND ISOLATION VALVES
SECOND LOWER & SEPULVEDA FEEDERS SCI DRAIN STATIONS
SECOND LOWER CROSS FEEDER - VALVE PROCUREMENT
SECOND LOWER CROSS FEEDER CONSTRUCTION
SECOND LOWER CROSS FEEDER FINAL DESIGN SECOND LOWER FEEDER - INSTALL LINER
SECOND LOWER FEEDER CATHODIC PROTECTION SYSTEM
Second Lower Feeder Current Mitigation REFURBISHMENT
SECOND LOWER FEEDER PCCP REHABILITATION

TABLE 3
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS
Description
Distribution Facilites
SECOND LOWER FEEDER PCCP REHABILITATION - PHASE I: PIPE PROCUREMENT
SECOND LOWER FEEDER PCCP REHABILITATION - PHASE I: PRELIMINARY DESIGN SECOND LOWER FEEDER PCCP REHABILITATION - PHASE I: REACH 1
SECOND LOWER FEEDER PCCP REHABILITATION - PHASE I: REACH 2
SECOND LOWER FEEDER PCCP REHABILITATION - PHASE I: REACH 3 SECOND LOWER FEEDER PCCP REHABILITATION - PHASE I: REACH 4
SECOND LOWER FEEDER PCCP REHABILITATION - PHASE I: REACH 5
SECOND LOWER FEEDER PCCP REHABILITATION - PHASE I: REACH 6 SECOND LOWER FEEDER PCCP REHABILITATION - PHASE I: ROW ACQUISITION
SECOND LOWER FEEDER PCCP REHABILITATION - PHASE I: VALVE PROCUREMENT SECOND LOWER FEEDER PCCP REPAIRS
SECOND LOWER FEEDER RELIABILITY AT 3 LOCATIONS - SEISMIC STUDY
SEISMIC UPGRADE OF 11 FACILITIES ON THE ALLEN MCCOLLOCH PIPELINE SEISMIC UPGRADES AT 10 SERVICE CONNECTION STRUCTURES ALONG AMP
SELECTED PRESSURE REPLACE VALVE POSITION INDICATORS
SEPULVEDA CANYON CONTROL FACILITY BYPASS PROJECT SEPULVEDA CANYON CONTROL FACILITY WATER STORAGE TANKS SEISMIC UPGRADE
SEPULVEDA CANYON POWER PLANT TAIL RACE COATINGS SEPULVEDA CANYON TANKS EXTERIOR AND INTERIOR RECOATING
SEPULVEDA FEEDER - CARBON FIBER LINER REPAIRS
SEPULVEDA FEEDER CATHODIC PROTECTION SYSTEM SEPULVEDA FEEDER CORROSION/INTERFERENCE MITIGATION, STATION 950+00 TO 1170+00
SEPULVEDA FEEDER HEP AUTO PILOT
SEPULVEDA FEEDER REPAIRS AT 3 SITES SEPULVEDA FEEDER SOUTH CATHODIC PROTECTION SYSTEM
SEPULVEDA FEEDER STATION 2002+02 TO 2273+28 STRAY CURRENT INTERFERENCE MITIGATION SEPULVEDA FEEDER STRAY CURRENT MITIGATION REFURBISHMENT
SEPULVEDA FEDER STRAT GURRENT MITIGATION REFURBISHMENT
SEPULVEDA PIPELINE PCCP REHABILITATION SEPULVEDA-WEST BASIN INTERCONNECTION VALVE REPLACEMENTS
SERVICE CONNECTION LV-01 UPGRADES
SERVICE CONNECTION OC-26 - RELOCATION OF METER CABINET, INSTRUMENT HOUSING & AIR VENT STACK SERVICE CONNECTIONS CB-12 & CB-16 TURNOUT VALVE REPLACEMENT & ELECTRICAL UPGRADE
SIMULATION AND MODELING APPLICATION FOR REAL TIME OPERATIONS SMART OPS
SITE 3 SECOND LOWER FEEDER URGENT REPAIRS - FINAL DESIGN SITES 1 & 2 SECOND LOWER FEEDER URGENT REPAIRS - FINAL DESIGN & PIPE FABRICATION
SKINNER BRANCH - AIR INJECTION MODIFICATIONS TO RED MOUNTAIN POWER PLANT SKINNER BRANCH - CASA LOMA CANAL
SKINNER BRANCH - CASA LOMA SIPHON BARREL ONE
SKINNER BRANCH - CATWALK FOR TRAVELING MAINTENANCE BRIDGE FOR SKINNER BRANCH - FABRICATE & REPLACE THE STEMS, NUTS & KEYS
SKINNER BRANCH - REPAIR MODULE 1 AND 2 FLOCCULATORS BRIDGES
SKINNER DAM REMEDIATION SKINNER DISTRIBUTION SYSTEM - CONTRACT # 1396
SKINNER ELECTRICAL BUILDING HVAC UPGRADE SKINNER FACILITY AREA PAVING
SKINNER FILTRATION PLANT - ELEVATED SLAB IN SERVICE BLDG 1
SKINNER HELIPAD REHAB SKINNER REPLACEMENT FOR WETCELL BATTERY AND INVERTER
SKINNER SCADA SERVERS RELOCATION SMART-OPS (FORMERLY RTOS)
SOTO STREET FACILITY - BUILDING SEISMIC UPGRADE
SOTO STREET FACILITY - REPLACE HEATING SOTO STREET FACILITY - ROOF REPLACEMENT
SOUTH COUNTY PIPELINE PROTECTION AT SAN JUAN CREEK CROSSING
SOUTH REACH / TUNNEL STUDY SOUTH REACH CONSTRUCTION/ASBUILT - FUTURE UNAPPROPRIATED
SOUTH REACH DESIGN - FUTURE/UNAPPROPRIATED SOUTH REACH ENVIRONMENTAL - FUTURE/UNAPPROPRIATED
SOUTH REACH FEASIBILITY STUDY
SOUTH REACH PROJECT MANAGEMENT - FUTURE/UNAPPROPRIATED SOUTH REACH RIGHT OF WAY - FUTURE/UNAPPROPRIATED
SPECIAL SERVICE BRANCH - REPLACE PLATE BENDING
ST. JOHN'S CANYON CHANNEL EROSION MITIGATION SYSTEM RELIABILITY PROGRAM
SYSTEM-WIDE ASPHALT REPLACEMENT TEMESCAL POWER PLANT REPLACE EMERGENCY GENERATOR
TREATED WATER CROSS CONNECTION PREVENTION - FINAL DESIGN & CONSTRUCTION
TREATED WATER CROSS CONNECTION PREVENTION - UNFUNDED WORK TWO-WAY RADIO ENHANCEMENT - EMERGENCY SERVICES, FIRE CONTROL, EVACUATION & BLDG. MAINT.
TWO-WAY RADIO ENHANCEMENT FOR EMERGENCY SERVICES, FIRE CONTROL, EVACUATION AND BLDG. MAINTENANCE
UNDER GROUND STORAGE TANK DISPENSER SPILL CONTAINMENT & REMEDIATION UNION STATION TWO-WAY RADIO ENHANCEMENT FOR EMERGENCY SERVICES, FIRE CONTROL, EVACUATION AND BUILDING MAINTENANCE
UPGRADE CATHODIC PROTECTION RECTIFIERS UPGRADE HOLLYWOOD TUNNEL PORTAL SLEEVE VALVE EQUIPMENT
UPGRADE SUNSET GARAGE
UPPER FEEDER - SANTA ANA RIVER BRIDGE REPAIRS UPPER FEEDER - STRUCTURAL PROTECTION
UPPER FEEDER AIR ENTRAINMENT
UPPER FEEDER CATHODIC PROTECTION SYSTEM UPPER FEEDER GATE REHABILITATION
UPPER FEEDER JUNCTION STRUCTURE SEISMIC UPGRADE UPPER FEEDER SANTA ANA RIVER DISCHARGE PAD
UPPER FEEDER SERVICE CONNECTIONS UPGRADES
UPPER NEWPORT BAY BLOW-OFF STRUCTURE REHABILITATION UPS SYSTEMS INSTALLATION AT FOOTHILL PCS
UPS SYSTEMS INSTALLATION AT PERRIS CONTROL STRUCTURE UTILITY BUSINESS ARCHITECTURE (OBJECT MAPPING/MODELING)
VACUUM AIR RELEASE VALVE RELOCATION PILOT PROGRAM
VALLEY & LOS ANGELES DISTRIBUTION VALVE POSITION DISPLAY UPGRADE VALVE PROCUREMENT
VIDEO CONFERENCE SYSTEM UPGRADE
VIDEOCONFERENCING UPGRADE

TABLE 3	
CONVEYANCE, DISTRIBUTION, AND STORAGE SYSTEM COSTS	
Description Particular Facilities Part Humon Part - Moderication Repairs of FIFTY-NINE 6.9KV BREAKERS/CABINETS Part Part - Conduct Repairs of Part - Conduct Repairs of FIFTY-NINE 6.9KV BREAKERS/CABINETS Part - Part - Part - Conduct Repairs of Part - Part	
Sub-total Distribution facilities costs	\$ 78,607,619

TABLE 4								
FISCAL YEAR 2019/20								
ESTIMATED READINESS-TO-SERVE CHARGE REVENUE								
Member Agency	Rolling Ten- Year Average Firm Deliveries (Acre-Feet) FY2007/08 - FY2016/17	RTS Share	6 months @ \$133 million per year (7/19- 12/19)	Rolling Ten- Year Average Firm Deliveries (Acre-Feet) FY2008/09 - FY2017/18	RTS Share	6 months @ \$136 million per year (1/20- 6/20)	Total RTS Charge FY 2019/20	
Anaheim	18,523.8	1.14%	758,843	18,484.7	1.19%	808,227	1,567,070	
Beverly Hills	10,823.4	0.67%	443,389	10,636.8	0.68%	465,085	908,474	
Burbank	12,640.6	0.78%	517,833	12,505.3	0.80%	546,783	1,064,616	
Calleguas MWD	103,113.8	6.35%	4,224,141	100,327.3	6.45%	4,386,723	8,610,864	
Central Basin MWD	48,484.8	2.99%	1,986,219	45,375.1	2.92%	1,983,986	3,970,206	
Compton	1,274.6	0.08%	52,215	1,052.6	0.07%	46,024	98,239	
Eastern MWD	95,591.2	5.89%	3,915,972	95,589.5	6.15%	4,179,567	8,095,539	
Foothill MWD	9,104.1	0.56%	372,957	8,761.7	0.56%	383,098	756,055	
Fullerton	8,711.6	0.54%	356,878	8,520.9	0.55%	372,569	729,447	
Glendale	17,789.4	1.10%	728,757	17,219.1	1.11%	752,890	1,481,647	
Inland Empire Utilities Agency	58,419.2	3.60%	2,393,190	58,335.2	3.75%	2,550,655	4,943,846	
Las Virgenes MWD	21,650.8	1.33%	886,943	20,859.4	1.34%	912,059	1,799,002	
Long Beach	32,108.6	1.98%	1,315,355	31,074.3	2.00%	1,358,696	2,674,052	
Los Angeles	322,746.6	19.88%	13,221,578	298,801.6	19.21%	13,064,838	26,286,416	
Municipal Water District of Orange County	210,138.2	12.95%	8,608,483	214,227.5	13.77%	9,366,909	17,975,393	
Pasadena	19,875.5	1.22%	814,216	19,306.1	1.24%	844,142	1,658,358	
San Diego County Water Authority	318,873.9	19.64%	13,062,930	287,538.4	18.49%	12,572,364	25,635,294	
San Fernando	35.7	0.00%	1,462	35.7	0.00%	1,561	3,023	
San Marino	815.9	0.05%	33,424	854.7	0.05%	37,371	70,795	
Santa Ana	11,210.7	0.69%	459,255	11,281.3	0.73%	493,265	952,520	
Santa Monica	7,253.7	0.45%	297,154	6,403.0	0.41%	279,966	577,119	
Three Valleys MWD	63,729.7	3.93%	2,610,739	62,968.2	4.05%	2,753,229	5,363,969	
Torrance	16,891.1	1.04%	691,958	16,507.9	1.06%	721,793	1,413,751	
Upper San Gabriel Valley MWD	24,161.1	1.49%	989,779	22,639.8	1.46%	989,905	1,979,685	
West Basin MWD	118,121.7	7.28%	4,838,952	116,023.0	7.46%	5,073,004	9,911,956	
Western MWD	71,214.9	4.39%	2,917,377	69,876.5	4.49%	3,055,289	5,972,665	
MWD Total Totals may not foot due to rounding	1,623,304.6	100.00%	\$ 66,500,000	1,555,205.6	100.00%	\$ 68,000,000	\$ 134,500,000	

TABLE 5

FISCAL YEAR 2019/20 ESTIMATED STANDBY CHARGE REVENUE

Member Agencies	Total Parcel Charge	Number Of Parcels Or Acres	Gross Revenues (Dollars) ¹		
•	•				
Anaheim	\$ 8.55	68,382	\$ 584,663		
Beverly Hills	-	-	-		
Burbank	14.20	29,140	413,795		
Calleguas MWD	9.58	254,997	2,442,874		
Central Basin MWD	10.44	340,338	3,553,124		
Compton	5.00	18,092	90,462		
Eastern MWD	6.94	405,408	2,813,533		
Foothill MWD	10.28	30,338	311,872		
Fullerton	10.71	34,753	372,202		
Glendale	12.23	44,921	549,379		
Inland Empire Utilities Agency	7.59	250,405	1,900,570		
Las Virgenes MWD	8.03	54,296	435,997		
Long Beach	12.16	92,128	1,120,275		
Los Angeles	-	-	-		
Municipal Water District of Orange County ²	10.09	657,887	7,480,088		
Pasadena	11.73	39,261	460,528		
San Diego County Water Authority	11.51	1,106,495	12,735,761		
San Fernando	-	5,104	-		
San Marino	8.24	4,966	40,923		
Santa Ana	7.88	54,433	428,934		
Santa Monica	-	-	-		
Three Valleys MWD	12.21	152,699	1,864,460		
Torrance	12.23	40,548	495,898		
Upper San Gabriel Valley MWD	9.27	213,392	1,978,147		
West Basin MWD	-	-	-		
Western MWD	9.23	388,077	3,581,955		
MWD Total		4,286,060	\$ 43,655,439		

(2) Adjusted for inclusion of Coastal MWD

Note: Totals may not foot due to rounding.

TABLE 6 PARCELS SUBJECT TO ANNEXATION STANDBY CHARGES AS OF JULY 1, 2018						
Annexation	Parcel Number	Acres		Proposed Standby Charge (FY 2019/20)		
Calleguas MWD						
Calleguas Annexation No. 102	145-0-212-385	0.74		9.58		
Eastern MWD						
108th Fringe Area	949-210-010	1.07		7.43		
	949-210-011	0.94		6.52		
	949-210-012	1.10		7.63		
	949-210-013 949-210-014	1.09 1.77		7.56 12.28		
	0.02.00.					
Western MWD						
51st Fringe	275-070-003	66.79		616.47		
	275-070-004 275-080-020	15.38 7.34		141.96 67.75		
	213 000 020	7.04		01.10		
	REORGANIZATIONS	BETWEEN	I MEMBER AGENCIE	S		
Annexation	Parcel Number	Acres	Original Standby Charge	Proposed Standby Charge (FY 2019/20)		
Las Virgenes MWD						
Reorg No. 2017-04 to	4448-026-050	2.05	-	16.46		
Reorg No. 2017-04 to the Las Virgenes MWD	4448-026-050	2.05	-	16.46		
Reorg No. 2017-04 to	4448-026-050	2.05	-	16.46		
Reorg No. 2017-04 to	4448-026-050	2.05	-	16.46		
Reorg No. 2017-04 to	4448-026-050	2.05	-	16.40		
Reorg No. 2017-04 to	4448-026-050	2.05	- -	16.46		
Reorg No. 2017-04 to	4448-026-050	2.05	-	16.46		
Reorg No. 2017-04 to	4448-026-050	2.05	-	16.46		
Reorg No. 2017-04 to	4448-026-050	2.05		16.40		
Reorg No. 2017-04 to	4448-026-050	2.05		16.46		
Reorg No. 2017-04 to	4448-026-050	2.05		16.46		
Reorg No. 2017-04 to	4448-026-050	2.05		16.46		
Reorg No. 2017-04 to	4448-026-050	2.05		16.46		
Reorg No. 2017-04 to	4448-026-050	2.05				
Reorg No. 2017-04 to	4448-026-050					
Reorg No. 2017-04 to	4448-026-050			16.46		

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

RESOLUTION _____

RESOLUTION OF THE BOARD OF DIRECTORS OF THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA FIXING AND ADOPTING A CAPACITY CHARGE EFFECTIVE JANUARY 1, 2020

The Board of Directors of The Metropolitan Water District of Southern California (the "Board") hereby finds that:

1. The Board of The Metropolitan Water District of Southern California ("Metropolitan"), pursuant to Sections 133, 134 and 134.5 of the Metropolitan Water District Act (the "Act"), is authorized to fix such rate or rates for water as will result in revenue which, together with revenue from any water standby or availability of service charge or assessment, will pay the operating expenses of Metropolitan, provide for repairs and maintenance, provide for payment of the purchase price or other charges for property or services or other rights acquired by Metropolitan, and provide for the payment of the interest and principal of its bonded debt; and

2. The amount of revenue to be raised by the Capacity Charge shall be as determined by the Board and allocation of such charges among member agencies shall be in accordance with the method established by the Board; and

3. The Capacity Charge is a charge fixed and adopted by Metropolitan and charged to its member agencies, and is not a fee or charge imposed upon real property or upon persons as an incident of property ownership; and

4. The Capacity Charge is intended to recover the debt service and other appropriately allocated costs to construct, operate and maintain projects needed to meet peak demands on Metropolitan's distribution system, as shown in the FYs 2018/19 and 2019/20 Cost of Service Report for Proposed Water Rates and Charges (the "2018 Cost of Service Report"); and

5. Pursuant to Resolution 8329, adopted by the Board on July 9, 1991 and Resolution 9199, adopted by the Board on March 8, 2016, and as each is thereafter amended and supplemented, proceeds of the RTS Charge, Capacity Charge, and other revenues from the sale or availability of water are pledged to the payment of Metropolitan's outstanding revenue bonds and to the payment of Metropolitan's outstanding subordinate revenue bonds to be issued pursuant to Resolution 8329 and Resolution 9199; and

6. The Capacity Charge is charged (on a dollar per cubic-foot-per-second basis) to member public agencies ("member agencies"), based upon the amount of capacity used by such member agency that is designed to recover the cost of providing peaking capacity within the distribution system; and

7. In San Diego County Water Authority v. Metropolitan Water District of Southern California, et al., San Francisco Superior Court Case Nos. CPF-16-515282, CPG-17-563350, and CPF-18-516389 (the "2016, 2017, and 2018 Cases", collectively), the San Diego County Water Authority challenged Metropolitan's water charges adopted on April 12, 2016, April 11, 2017, and April 10, 2018, respectively, and also challenged Metropolitan's rates. Metropolitan is defending such challenges; and

8. Metropolitan maintains that its rates and charges are appropriate. There is no final judgment in the identified cases and Metropolitan does not anticipate a final judgement in CY 2020; and

9. On April 10, 2018, the board considered the rates and charges presented by the General Manager and approved the biennial budget for fiscal years 2018/19 and 2019/20 and adopted recommended water rates for calendar years 2019 and 2020 and charges for calendar year 2019, and received information and documents available at http://www.mwdh2o.com/WhoWeAre/Pages/proposed-budget-rates.aspx and http://www.mwdh2o.com/WhoWeAre/Pages/FYs-2019-20-proposed-property-tax-rates.aspx; and

10. In approving the biennial budget and adopting the rates and charges on April 10, 2018, the Board determined the amount of revenue to be raised by the Capacity Charge in calendar year 2020 to be based on a Capacity Charge in such year of \$8,800 per cubic-feet-per-second, based on information and documents available at http://www.mwdh2o.com/WhoWeAre/Pages/proposed-budget-rates.aspx and http://www.mwdh2o.com/WhoWeAre/Pages/proposed-budget-rates.aspx and http://www.mwdh2o.com/WhoWeAre/Pages/Proposed-budget-rates.aspx and http://www.mwdh2o.com/WhoWeAre/Pages/Proposed-budget-rates.aspx and http://www.mwdh2o.com/WhoWeAre/Pages/FYs-2018-19-2019-20-proposed-property-tax-rates.aspx; and

11. Each of the meetings of the Board were conducted in accordance with the Brown Act (commencing at Section 54950 of the Government Code), for which due notice was provided and at which quorums were present and acting throughout;

NOW, THEREFORE, the Board does hereby resolve, determine and order as follows:

Section 1. That the Board hereby fixes and adopts a Capacity Charge, as described below, to be effective January 1, 2020.

Section 2. That said Capacity Charge shall be in an amount sufficient to provide for payment of the capital financing costs not paid from *ad valorem* property taxes, as well as other appropriately allocated costs, incurred to provide peaking capacity within Metropolitan's distribution system.

Section 3. That such Capacity Charge effective January 1, 2020 shall be a charge as specified in Section 5 (set in dollars per cubic-feet-per-second of the peak day capacity) for capacity provided to a member agency.

Section 4. That the Capacity Charge specified in Section 5, together with other revenues from Metropolitan's water rates, other charges, ad valorem property taxes, and other miscellaneous revenue, does not exceed the reasonable and necessary cost of providing Metropolitan's water service for which the rates and charges are made, or conferring the benefit provided, and is fairly apportioned to each member agency in proportion to the peak day capacity utilized by each member agency.

Section 5. That the Capacity Charge shall be a fixed charge as shown in the following table and collected from each member agency monthly, quarterly or semiannually as agreed to by Metropolitan and the member agency.

	(N	30)	Rate (\$/cfs):			
	Calendar Year			\$8,800		
					Calendar Year	
					2020 Capacity	
AGENCY	2016	2017	2018	3-Year Peak	Charge	
Anaheim	29.7	33.0	37.2	37.2	\$327,360	
Beverly Hills	26.2	25.7	27.8	27.8	\$244,640	
Burbank	12.1	14.0	17.1	17.1	\$150,480	
Calleguas	175.1	186.5	184.7	186.5	\$1,641,200	
Central Basin	43.0	36.7	39.3	43.0	\$378,400	
Compton	0.3	0.1	6.9	6.9	\$60,720	
Eastern	204.8	216.6	229.4	229.4	\$2,018,720	
Foothill	17.1	18.6	19.9	19.9	\$175,120	
Fullerton	14.3	13.0	13.3	14.3	\$125,840	
Glendale	38.8	41.4	33.5	41.4	\$364,320	
Inland Empire	118.3	140.5	147.8	147.8	\$1,300,640	
Las Virgenes	45.3	44.6	45.9	45.9	\$403,920	
Long Beach	61.5	55.2	80.4	80.4	\$707,520	
Los Angeles	531.7	250.4	284.6	531.7	\$4,678,960	
MWDOC	401.1	418.6	442.3	442.3	\$3,892,240	
Pasadena	38.0	39.9	43.0	43.0	\$378,400	
San Diego CWA	911.3	749.9	855.6	911.3	\$8,019,440	
San Fernando	0.0	0.0	0.0	0.0	\$0	
San Marino	6.8	7.5	4.5	7.5	\$66,000	
Santa Ana	14.7	19.9	19.3	19.9	\$175,120	
Santa Monica	10.8	16.6	16.7	16.7	\$146,960	
Three Valleys	113.5	126.4	143.2	143.2	\$1,260,160	
Torrance	39.1	34.0	32.6	39.1	\$344,080	
Upper San Gabriel	11.9	12.1	23.3	23.3	\$205,040	
West Basin	197.9	201.7	202.4	202.4	\$1,781,120	
Western MWD	175.4	175.2	192.7	192.7	\$1,695,760	
Total	3,238.7	2,878.1	3,143.4	3,470.7	\$30,542,160	
Totals may not foot due to rounding						

Table 1. Calendar Year 2020 Capacity Charge

Section 6. That the Capacity Charge for each member agency, the method of its calculation, cost allocations and other data used in its determination are as specified in the adopted rates and charges to be effective January 1, 2020, which forms the basis of the Capacity Charge, and the corresponding 2018 Cost of Service Report. The adopted rates and charges and cost of service reports are on file and available for review by interested parties at Metropolitan's headquarters.

Section 7. That the General Manager and the General Counsel are hereby authorized to do all things necessary and desirable to accomplish the purposes of this Resolution, including, without limitation, the commencement or defense of litigation.

Section 8. That if any provision of this Resolution or the application to any member agency, property or person whatsoever is held invalid, that invalidity shall not affect other provisions or applications of this Resolution which can be given effect without the invalid portion or application, and to that end the provisions of this Resolution are severable.

Section 9. That the General Manager is hereby authorized and directed to take all necessary action to satisfy relevant statutes requiring notice by publication.

Section 10. That the Board Executive Secretary is hereby directed to transmit a certified copy of this Resolution to the presiding officer of the governing body of each member agency.

I HEREBY CERTIFY that the foregoing is a full, true and correct copy of a Resolution adopted by the Board of Directors of The Metropolitan Water District of Southern California, at its meeting held on April 9, 2019.

Secretary of the Board of Directors of the Metropolitan Water District of Southern California

NOTICE TO MEMBER AGENCIES OF PROPOSED ADOPTION OF READINESS-TO-SERVE CHARGE AND CAPACITY CHARGE FOR CALENDAR YEAR 2020 AND CONTINUATION OF STANDBY CHARGE FOR FISCAL YEAR 2019/20

The Board of the Metropolitan Water District of Southern California (Metropolitan) adopted a biennial budget for fiscal years 2018/19 and 2019/20 on April 10, 2018. On the same date, the Board also adopted rates for calendar years 2019 and 2020 and charges for calendar year 2019 to meet revenue requirements for fiscal years 2018/19 and 2019/20. The Board's determinations were based on the assumption of Readiness-To-Serve charge collections for calendar year 2020 of \$136 million and a Capacity Charge set at \$8,800 per cubic-foot-second. Accordingly, notice is hereby given to each member public agency of Metropolitan that at its regular meeting to be held April 9, 2019 (or such other date as the Board shall hold its regular meeting in such month), Metropolitan's Board of Directors will consider the adoption of the Readiness-To-Serve Charge and Capacity Charge for calendar year 2020.

The Board's determinations on April 10, 2018 were also based on the continuation of Metropolitan's water standby charge for fiscal year 2019/20. Accordingly, at its regular meeting to be held May 14, 2019, (or such other date as the Board shall hold its regular meeting in such month), the Board will consider the General Manager's recommendation to continue Metropolitan's water standby charge for fiscal year 2019/20 under authority of Section 134.5 of the Act on land within Metropolitan at rates not to exceed, per acre of land, or per parcel of land less than an acre, as presently in effect. Any such water standby charge will be continued as a means of collecting the Readiness-To-Serve charge.

Board letters with information about the proposed charges will be provided to the Board prior to the board meetings.

Dated: February 6, 2019

June Skillman Interim Assistant General Manager/Chief Financial Officer

PROOF OF SERVICE

STATE OF CALIFORNIA)) ss. COUNTY OF LOS ANGELES)

I am employed in the County of Los Angeles, State of California. I am over the age of 18

years and am employed by The Metropolitan Water District of Southern California; my business

address is 700 North Alameda Street, Los Angeles, California 90012.

On February 6, 2019, I served the foregoing document described as:

NOTICE TO MEMBER AGENCIES OF PROPOSED ADOPTION OF READINESS-TO-SERVE CHARGE AND CAPACITY CHARGE FOR CALENDAR YEAR 2020 AND CONTINUATION OF STANDBY CHARGE FOR FISCAL YEAR 2019/20

on the Metropolitan member public agencies via electronic mail (email) to the following email

addresses:

dulee@anaheim.net; sepstein@beverlyhills.org; jsomoano@ci.burbank.ca.us; smulligan@calleguas.com; kevinh@centralbasin.org; bdickinson@comptoncity.org; jonesp@emwd.org; nina.jaz@fmwd.com; hyejinl@ci.fullerton.ca.us; szurn@glendaleca.gov; hrazak@ieua.org; dpedersen@lvmwd.com; chris.garner@lbwater.org; David.wright@ladwp.com; rhunter@mwdoc.com; gbawa@cityofpasadena.net; sryan@sdcwa.org; citymanager@sfcity.org; garry.hofer@amwater.com; nsaba@ci.santaana.ca.us; alex.nazarchuk@smgov.net; rhansen@tvmwd.com; Rbeste@TorranceCA.Gov; tom@usgvmwd.org; Christy@usgvmwd.org; patricks@westbasin.org; cmiller@wmwd.com; vdamasse@beverlyhills.org; bmace@ci.burbank.ca.us; MDeGhetto@glendaleca.gov; martin.adams@ladwp.com; dpascarella@cityofpasadena.net; kjones@sfcity.org; cmgr@cityofsanmarino.org; Cschaich@TorranceCA.Gov; mlitchfield@tvmwd.com

I declare under penalty of perjury under the laws of the State of California that the

foregoing is true and correct. Executed on February 6, 2019, at Los Angeles, California.

Spresa Kirkland

Teresa Kirkland