



Fiscal Year 2019/2020 – 2023/2024 Five Year Capital Improvement Program

July 2019



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TABLE OF CONTENTS

Table of Contents.....	i
Section 1. Capital Program Summary.....	1
Introduction.....	1
Background.....	1
Program Areas.....	2
Wastewater Program.....	3
Recycled Water Program.....	3
Household Hazardous Waste Program.....	4
Bay Point Capital Asset Rehabilitation Program.....	7
Program Funding.....	7
Wastewater Capital Asset Fund.....	7
Wastewater Capital Asset Replacement Fund.....	7
Wastewater Capital Expansion Fund.....	8
Advanced Treatment Fund.....	12
Recycled Water Fund.....	12
Bay Point Capital Asset Rehabilitation Fund.....	12
Household Hazardous Waste Fund.....	14
Program Overview.....	14
Section 2. Wastewater Capital Asset Fund.....	CA-1
Section 3. Wastewater Capital Asset Replacement Fund.....	CAR-1
Section 4. Wastewater Expansion Fund.....	E-1
Section 5. Advanced Treatment Fund.....	AT-1
Section 6. Recycled Water Capital Asset Fund.....	RWA-1
Section 7. Recycled Water Capital Asset Replacement Fund.....	RWR-1
Section 8. Recycled Water Expansion Fund.....	RWE-1
Section 9. Bay Point Capital Asset Rehabilitation Fund.....	BP-1
Section 10. Household Hazardous Waste Fund.....	HHW-1

Appendices

Appendix A	Program Definitions
Appendix B	CIP Policy Statements
Appendix C	Capital Project Concepts
Appendix D	Approving Resolution and CEQA Determination

List of Figures

Figure 1 - Delta Diablo Service Area.....	2
Figure 2 - Historical Participation at the DHHWCF	6
Figure 3 - Historical Waste Collection at the DHHWCF.....	6
Figure 4 - Future Annexations and Development	10
Figure 5 - Historical and Projected Connections.....	11
Figure 6 - Delta Diablo Capacity Projections.....	11
Figure 7 - Bay Point Development Projects	13

List of Tables

Table 1 - Program Summary – Anticipated Budgets and Fund Distribution.....	17
Table 2 – Wastewater Capital Asset Fund Project Budget	CA-1
Table 3 – Wastewater Capital Asset Fund Summary	CA-2
Table 4 – Wastewater Capital Asset Replacement Fund Project Budget	CAR-1
Table 5 – Wastewater Capital Asset Replacement Fund Summary.....	CAR-2
Table 6 – Wastewater Expansion Fund Project Budget.....	E-1
Table 7 – Wastewater Expansion Fund Summary	E-2
Table 8 – Advanced Treatment Fund Project Budget.....	AT-1
Table 9 – Advanced Treatment Fund Summary.....	AT-2
Table 10 – Recycled Water Capital Asset Fund Project Budget.....	RWA-1
Table 11 – Recycled Water Capital Asset Fund Summary	RWA-2
Table 12 – Recycled Water Capital Asset Replacement Fund Project Budget.....	RWR-1
Table 13 – Recycled Water Capital Asset Replacement Fund Summary	RWR-2
Table 14 – Recycled Water Expansion Fund Project Budget	RWE-1
Table 15 – Recycled Water Expansion Fund Summary.....	RWE-2
Table 16 – Bay Point Capital Asset Rehabilitation Fund Project Budget	BP-1
Table 17 – Bay Point Capital Asset Rehabilitation Fund Summary	BP-2
Table 18 – Household Hazardous Waste Fund Project Budget	HHW-1
Table 19 – Household Hazardous Waste Fund Summary	HHW-2

SECTION 1. CAPITAL PROGRAM SUMMARY

Introduction

The 2019 Capital Improvement Program (CIP) document outlines the capital projects planned for Delta Diablo (District), a wastewater resources recovery district serving the communities of Antioch, Pittsburg, and Bay Point, over a five-year period starting Fiscal Year 2019/2020 (FY19/20). The five-year CIP presents the project needs and financial funding requirements for the District in the areas of Wastewater Asset and Wastewater Asset Replacement, Wastewater Expansion, Advanced Treatment, Recycled Water Asset and Recycled Water Asset Replacement, and Recycled Water Expansion. The CIP also includes a separate section for the improvement projects in the Household Hazardous Waste (HHW) and the Bay Point Collection System (Zone 1). Each project request includes a description/justification and a risk assessment for the activity, as well as budget appropriations for the new fiscal year and anticipated budgets for the four subsequent years.

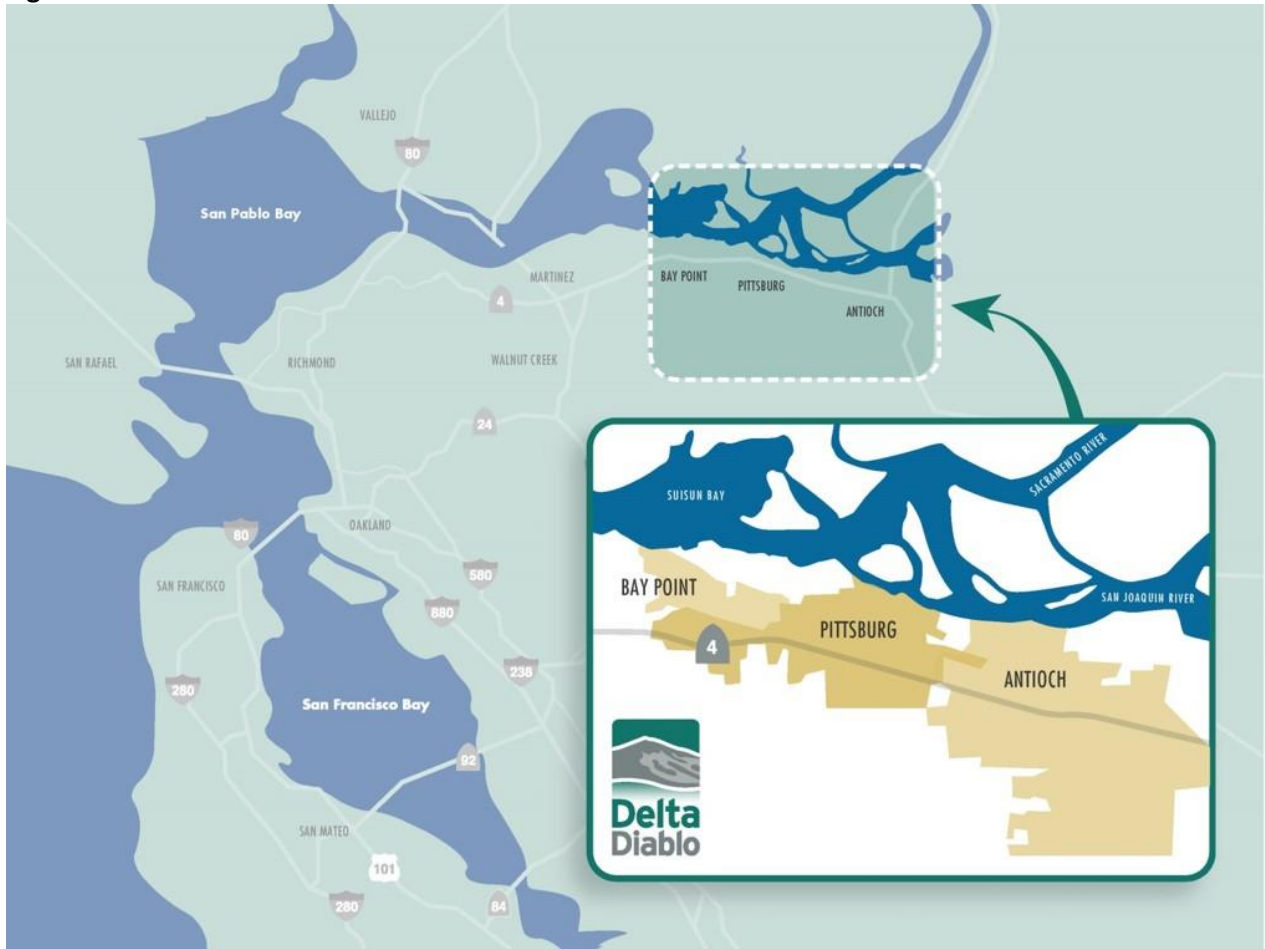
Background

The most significant planning effort for the facilities' needs is identified in the District's 2010 Conveyance System Master Plan update, 2011 Treatment Plant Master Plan update, 2012 Recycled Water Master Plan, and 2016 District Building Space Study. Other supporting documents include the city and county General Plans and city Collection System Master Plan. These planning documents supplement the District's planning work for capital improvements. Each year staff revisits the recommendations in these planning documents, along with ongoing condition assessment of the existing facilities, to identify CIP projects.

The District's CIP is developed in accordance with Government Code (GC) Section 65403, which governs the development and annual review of Capital Improvement Programs developed by special districts in the State of California. State law requires that the Program be reviewed and updated annually. It also requires the circulation of the document to all planning agencies having land use authority within the District prior to adoption of the Program. This document is intended to provide all the information necessary to allow planning and facility construction to meet the growing needs of the service area in a timely and economical manner.

The District's service area includes the unincorporated community of Bay Point and the Cities of Antioch and Pittsburg. The District boundaries and facilities are shown in Figure 1.

Figure 1: Delta Diablo Service Area



This CIP document is intended to provide a description of the needed projects, the funding of the projects, the timing of those funding needs, the effect on operations and maintenance at the District, the debt obligations of the various funds, and identification of the cost sharing between funding sources of the District.

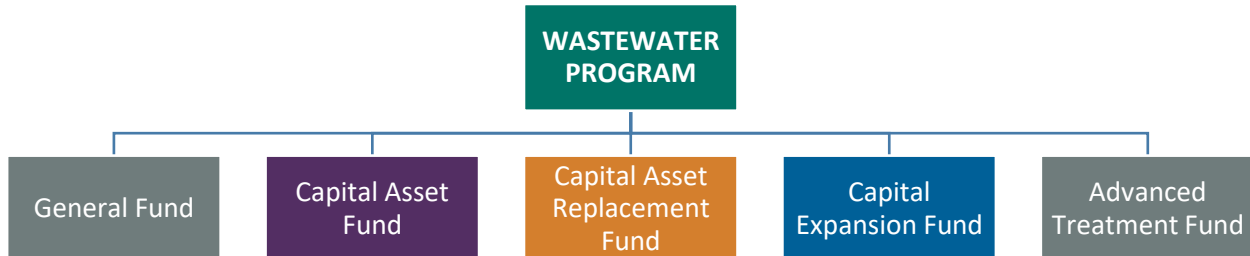
Program Areas

The District has developed five programs that make up its core services. The core services are shown in the following figure:



Wastewater Program

The Wastewater Program is divided into five funds as shown below. This CIP presents the capital needs for each of the four Capital Funds over the next five years. Operating activities are accounted for in the General Fund and are not included in this document.



Goals:

- Maintain current goal of zero controllable violations
- Implement the District's 2014 Strategic Business Plan and subsequent updates
- Accurately distribute project costs to the proper revenue source
- Prioritize projects and activities to ensure long-term financial stability and optimal use of resources

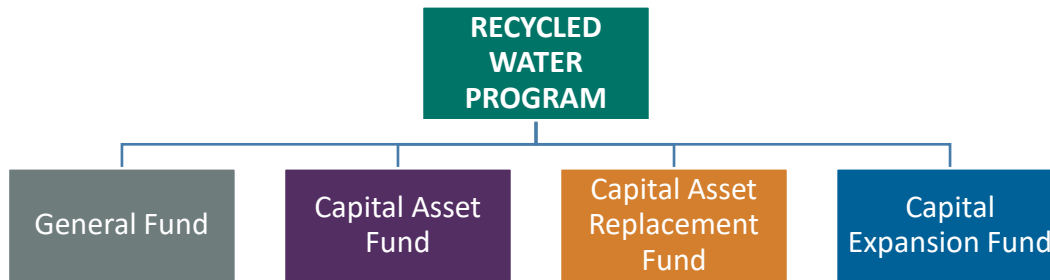
Recycled Water Program

In January 2001, the Recycled Water Facility (RWF) was completed, creating a new operation for the District. The RWF primarily provides recycled water from the District's wastewater treatment plant to the Los Medanos Energy Center (LMEC) and the Delta Energy Center (DEC). These two power plants created challenges and opportunities for the District. The challenges are related to the high level of service demanded by the two large industrial customers, as well as the associated contractual obligations. The opportunities are related to the potential to maximize the use of the RWF and continue expanding recycled water deliveries to non-potable water users in the District's service area. Having the advanced treatment provides the opportunity to more readily respond to increasingly stringent regulations for the District's effluent discharge. LMEC and DEC have a combined maximum recycled water demand of 12.8 million gallons per day (mgd).

In addition to the two power plants, recycled water was originally delivered to various parks and urban landscape areas in the City of Pittsburg. In 2008, the District completed major construction of a recycled water expansion project to serve the Delta View Golf Course and several additional parks in the City of Pittsburg. The District completed a similar project in 2011 in the City of Antioch to provide recycled water service for landscape irrigation at four municipal parks and the Lone Tree Golf Course.

In 2010, the District received concurrence from the California Department of Public Health that the RWF tertiary filters could be operated at a higher loading rate and still produce an equivalent quality of recycled water, effectively increasing the capacity of the filters to 16.2 mgd. In 2014, the District obtained a permanent waiver from the San Francisco Bay Regional Water Quality Control Board to allow the facility to operate at the higher loading rate.

To establish a financial structure separate but similar to the Wastewater Program, a Recycled Water financial program was established by the Board. The Recycled Water Program is comprised of four funds displayed below.



Goals:

- Maintain current goal of zero controllable violations
- Operate the Recycled Water Facility and deliver up to 12.8 mgd
- Meet all contractual obligations
- Expand recycled water use throughout the service area

Household Hazardous Waste Program

Proper disposal of household hazardous waste (HHW) is a problem faced statewide by local communities and jurisdictions. Although HHW makes up a small percentage of the municipal waste stream, it presents a potential threat to public health and the environment. Public health risks associated with the improper disposal of HHW include, the creation of toxic gases at landfills, drinking water contamination, health and safety risks to sanitation workers and fire fighters, hazards in the home, and indoor air pollution. Environmental risks include, groundwater and surface water contamination that could lead to the degradation of water quality and pose a threat to fish and wildlife.

The District has been operating its HHW program since July 1996. The program started out with a recycle-only facility at the south end of the treatment plant near the Pittsburg-Antioch Highway. The facility provided residents with a means to dispose of HHW, including latex paint, motor oil, antifreeze, batteries, and fluorescent lamps. Participation has increased steadily over the years, demonstrating the effectiveness of having a fixed facility that is open on a regular basis. In 1999, the District expanded the program by adding a series of one-day temporary collection events to allow residents to dispose of non-recyclable waste such as pesticides, oil-based paint, and household cleaners. The program then grew to a regular Saturday collection event utilizing cargo containers. In April 2003, the District opened a new full-scale permanent facility and the operating hours were expanded to include both Friday and Saturday operation. The facility was formally named the Delta Household Hazardous Waste Collection Facility (DHHWCF) to reflect the regional partnership supporting the facility.



Delta Household Hazardous Waste Collection Facility (DHHWCF)

The HHW program is made possible through a cooperative effort among the District and the Cities of Antioch, Brentwood, Oakley, and Pittsburg and Contra Costa County. The DHHWCF offers the ability to accept the full-range of HHW on a regular basis, provide greater flexibility, and achieve cost-savings associated with better economies of scale. Operating costs are split between the jurisdictions based on the actual usage of the DHHWCF by residents from those jurisdictions. The HHW program not only meets the AB 939 requirements of the cities and county, but also falls in line with the District's mission statement of protecting the environment. The HHW program also complements several other District programs and National Pollutant Discharge Elimination System (NPDES) requirements. Areas of significant crossover include the collection of mercury, pesticides, pharmaceuticals, and cooking oil/grease.

Since the opening of the DHHWCF, the District and its partners have worked continuously to expand and improve the HHW program. The significant improvements/enhancements are listed below:

- Added the collection of sharps July 2004
- Added the collection of cooking oil/grease July 2004
- Implemented an aggressive mercury outreach and public education campaign 2004-2006
- Added a third day of operation (Thursday) August 2005
- Added the collection of electronic waste May 2006
- Added retail take back locations for fluorescent lamps May 2006
- Extended closing time from 2:00 p.m. to 4:00 p.m. July 2006
- Added retail take back locations for sharps February 2009
- Completed the expansion of the facility September 2009
- Added retail/other take back locations for medication June 2015

Goals:

- Optimize facility operations
- Expand retail store take-back partnerships for universal waste

Figure 2: Historical Participation at the DHHWCF

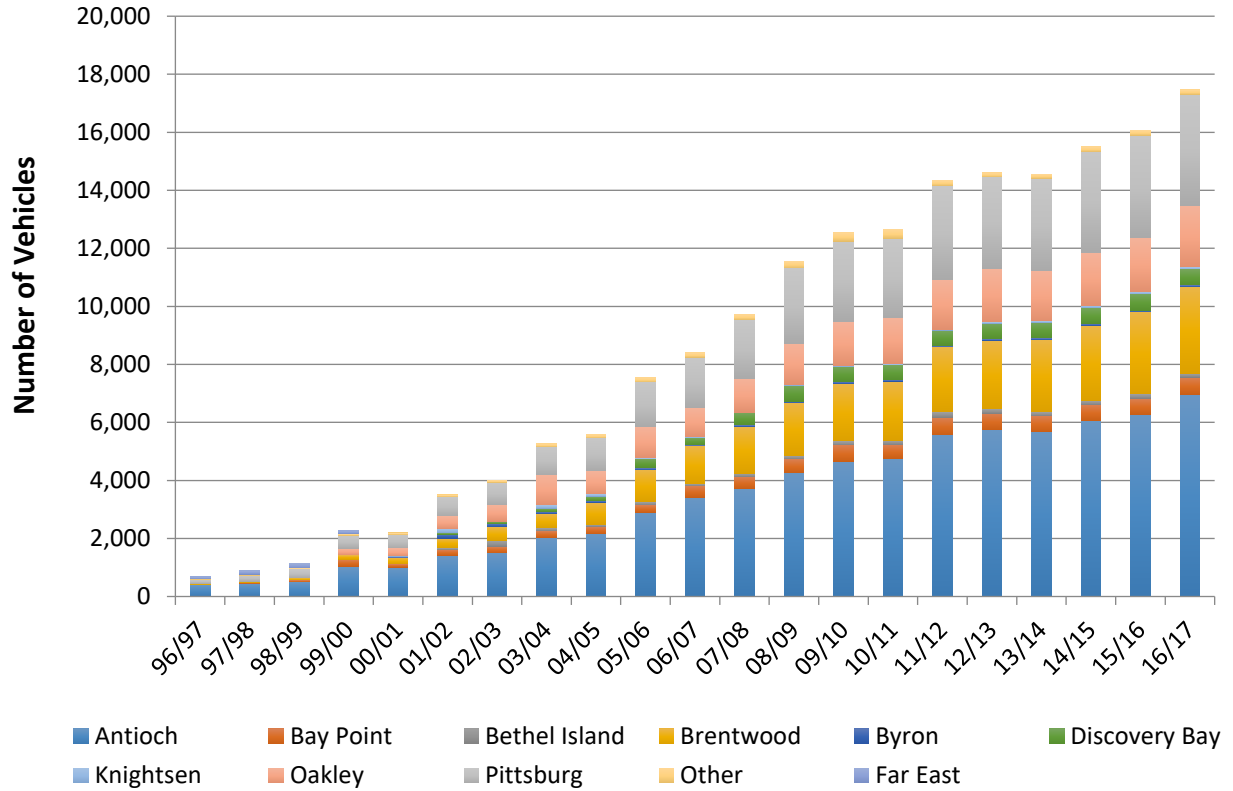
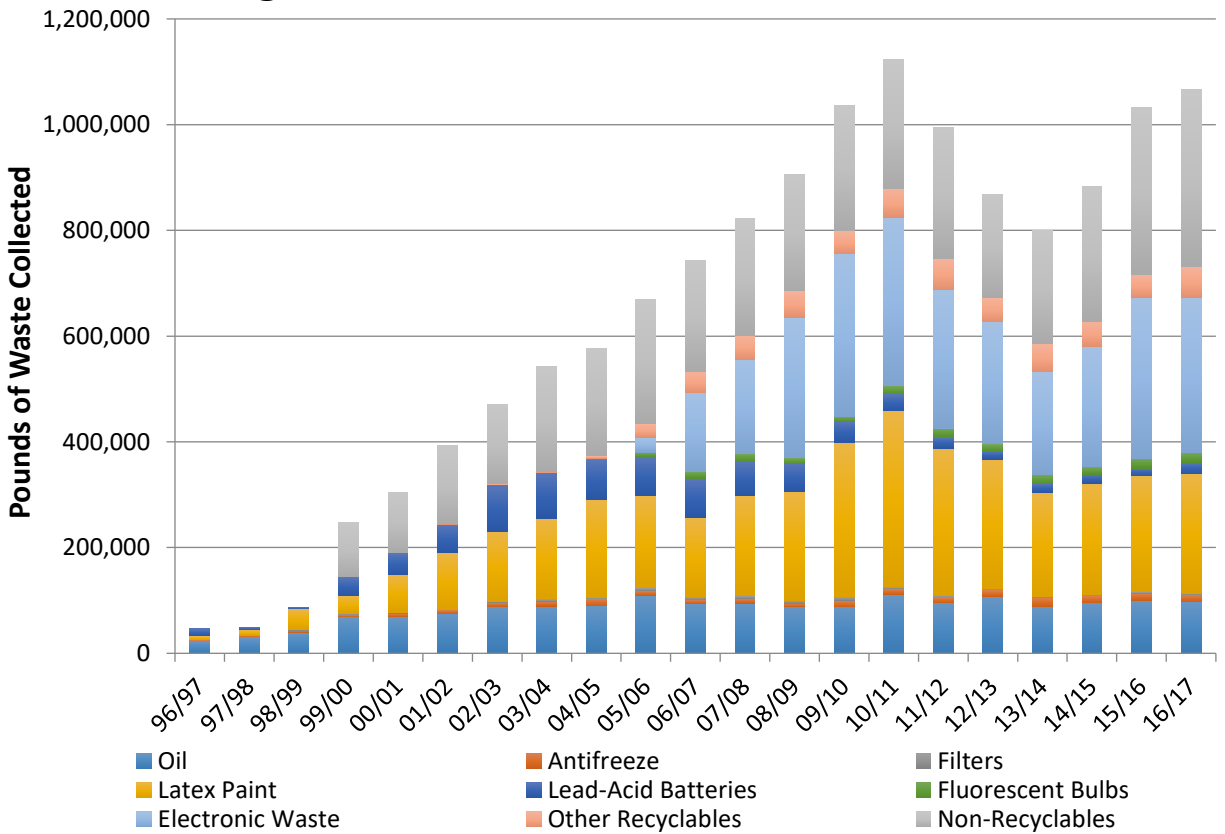


Figure 3: Historical Collection at the DHHWCF



Bay Point Capital Asset Rehabilitation Program

This program involves the rehabilitation and replacement of wastewater collection system facilities in Zone 1 (Bay Point). In 2013, the District completed a five-year update to the Sanitary Sewer Management Plan (SSMP), which identifies specific activities necessary to ensure these collection facilities continue to provide reliable service. Rehabilitation and replacement needs for the collection system facilities are determined through closed-circuit television (CCTV) inspection and condition assessment of the pipelines.

Program Funding

Wastewater Capital Asset Fund

The Wastewater Capital Asset (CA) Fund was established in March 1994, to fund new and improved equipment and facilities, which are associated with existing flows and loadings. Existing District ratepayers are responsible for these types of appropriations. The types of projects in this Fund include new computer control and operations equipment, evaluations and implementation of new cost-effective operations for treatment and pumping, new treatment facilities to match existing capacity, and additional equipment to the plant and pump stations to reduce staffing requirements or assist personnel in effectively and economically operating District facilities. This Fund also includes costs for new equipment and facilities required by changes or increases in regulatory discharge requirements.

This Fund has been developed assuming that revenue sources consist of a combination of sewer service charges and interest.

Revenues

The CA Fund is primarily funded by the CA component of the Sewer Service Charges.

Section 2 contains a summary of projected revenues and budgets for the five-year planning period presented in the Capital Asset Fund, as well as additional project details.

Wastewater Capital Asset Replacement Fund

The Board of Directors established the Wastewater Capital Asset Replacement (CAR) Fund in March, 1994, to develop a planned program for the renewal and replacement of assets required to collect, convey, and treat the wastewater discharged within the service area. The program is intended to outline a financial plan that provides adequate funds for the replacement of an asset at the end of its useful life. The plan is also valuable as a tool to smooth the impacts of future replacement costs on wastewater rates. It will allow the District to manage and understand the useful lives of its equipment. The Fund is designed to plan and then pay for standard, high-cost maintenance needs, such as overhauls of the cogeneration engines and diesel engines. In short, the ratepayers will be funding these expensive maintenance costs so that full replacement funds are available when the equipment has reached the end of its life and not solely during the year that major maintenance is required.

Revenues

The main sources of revenue for this Fund are the CAR component Sewer Service Charges and interest on invested reserves. As shown in Table 5, the revenue from Sewer Service Charges approved by the Board into the CAR Fund is expected to be \$2.5 million dollars in FY19/20. In 2003, the Board acted to place any property taxes received by the District into the CAR Fund upon the termination of the 1979 Sewer Revenue Bonds in FY03/04.

Annexation fees have been represented by characteristic historical receipt figures. In February 2002, the Board of Directors authorized a change in the method and timing of collections for annexation fees. At that time, they moved these fees from an acreage basis to an equivalent residential-unit (ERU) basis and delayed the collection of these fees until the payment of Capital Facilities Capacity Charges (CFCC) at the time of connection, rather than prior to the time of annexation.

Section 3 contains a summary of projected revenues and budgets for the five-year planning period presented in the Capital Asset Replacement Fund as well as additional project details.

Wastewater Capital Expansion Fund

The Board of Directors established the Wastewater Capital Expansion Fund in March 1994, for the purpose of developing and constructing Wastewater Collection, Conveyance, and Treatment Facilities for future growth and expansion of the service area. The Facilities are to be paid for from revenues and fees from development in the various zones in the District. The Fund is intended to identify all developer-related revenues and expenses so that general conformance with State Laws related to developer-funded improvements can be maintained. The Fund has, in the past, issued several offerings and refinancing of Certificates of Participation (COPs) to fund many of the improvements. The Fund pays the annual debt service associated with these issues and serves as a financial plan to match revenues and appropriations so that necessary facilities and equipment match the growth projections within the service boundaries of the District.

Growth Projections and Development Planning

Annexations to the District's service area directly impact the need for Capital Expansion Facilities. Figure 4 illustrates pending annexations under consideration for approval, as well as future annexations and development areas, which are anticipated within the CIP planning horizon. These areas will affect growth and revenue projections on all three zones of the District's service area.

Growth projections in the CIP are based upon Association of Bay Area Governments (ABAG), information from the City and County General Plans, discussions with the City and County planners, the District's master plans, and historical District connection data.

Historically, growth was assumed at 1,000 ERUs per year. The 1,000 ERUs figure has been used to determine long-term Expansion Fund revenues, however starting in 2008, the actual expansion has been steadily declining. Staff continues to monitor the number of connections and recommends a 400 ERU value is appropriate in the near-term, considering slower growth within the service area.

The most significant expansion-related project is the Bridgehead Pump Station Expansion. Figure 6 presents the planned capacity expansions of the Wastewater Treatment Plant against the cumulative projected flow rates for the service area as a whole.

Revenues and Expenditures

The revenue for the Expansion Fund comes from CFCCs. In addition, interest on reserves is directed to this Fund, as suggested by State laws governing development related fees.

As part of the first Five Year CIP adopted in July of 1994 by the Board of Directors, certain fees were approved under a step-increase program that was to last for five years. A Connection Fee Study was undertaken to evaluate the existing fees and establish future fees based upon required expenditures to accommodate growth. The Connection Fee Study (Project 96-14) was completed in February 2002 and a new Fee Ordinance was adopted. The new fees became effective April 15, 2002. A comprehensive rate-study update was initiated in the spring of 2005 and was completed by the end of FY05/06 fiscal year.

Prior to FY05/06, actual connections exceeded the 1,000-unit level for eight years. Over that period, the average number of connections had been approximately 1,400 units per year. These facts provide a level of assurance that the District will be able to manage its debt accumulated through offerings issued in 1988, 1991, 1992, and 1993. The debt service on these certificates was scheduled to run through the year 2017. Annual debt service payments and repayments for the State Revolving Loan Fund are now being made from annual fees received, plus reserves in the Fund. The total connections fell below the 1,000-unit value for the past twelve years resulting in the planning assumption revision to 400 ERU. Based upon connections midway through FY18/19, it is unlikely that the current year will reach the revised 400 ERU level. Staff will continue to monitor connection activity to determine whether a change to the planning assumption is necessary in the future.

CFCC revenues have not been sufficient to cover expansion related debt service since FY09/10 resulting in the Board authorizing annual inter-fund loans totaling about \$8.8M. It is anticipated that loan repayment will begin, with interest, in FY17/18 and be repaid in full by FY23/24. With inter-fund borrowing, a substantial savings can be realized by avoiding the cost of issue for debt-like COPs.

Section 4 contains a summary of projected revenues and expenditures for the five-year planning period presented in the Capital Expansion Fund, as well as additional project details.

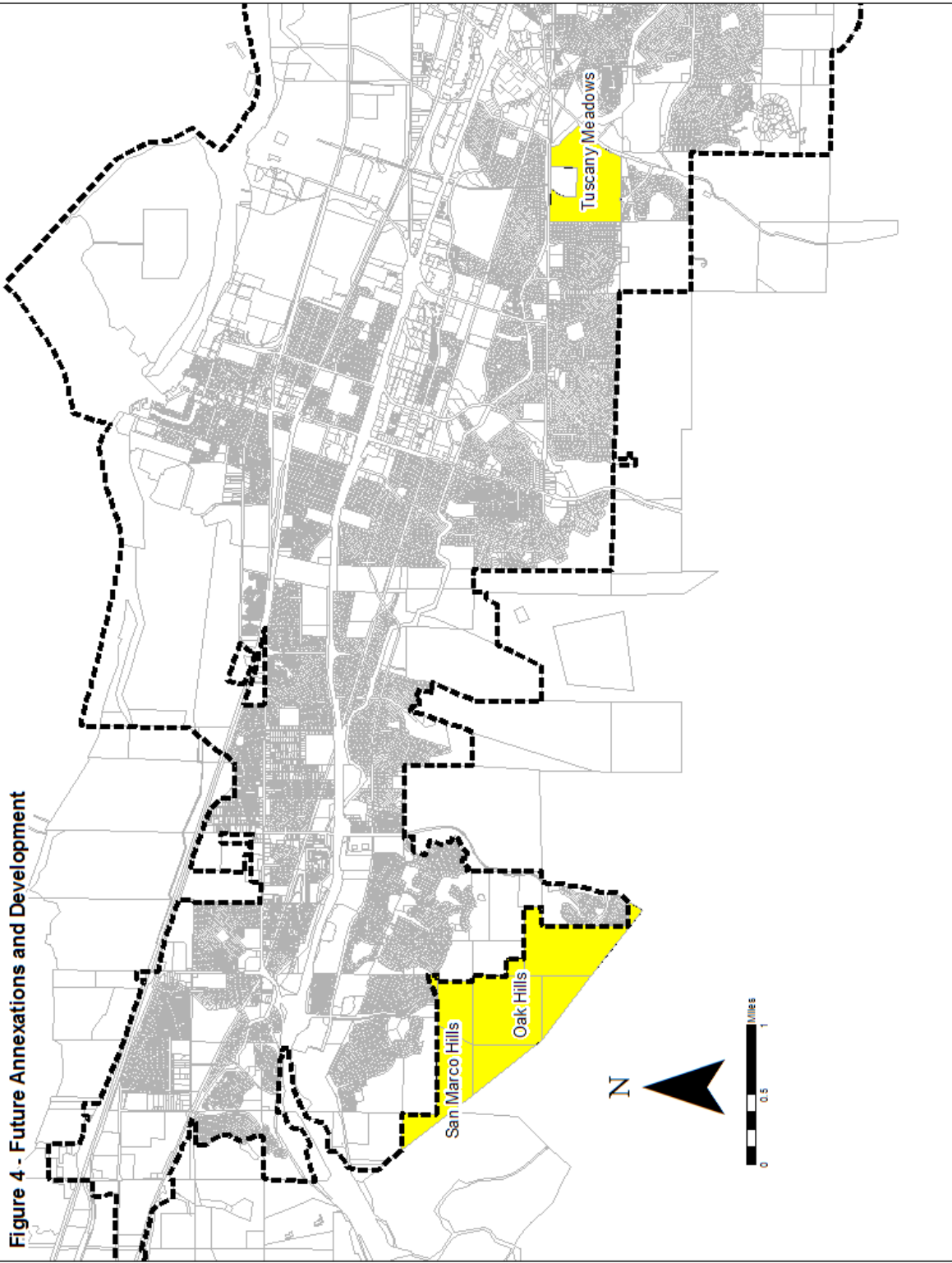


Figure 4 - Future Annexations and Development

Figure 5 - Historical and Projected Connections

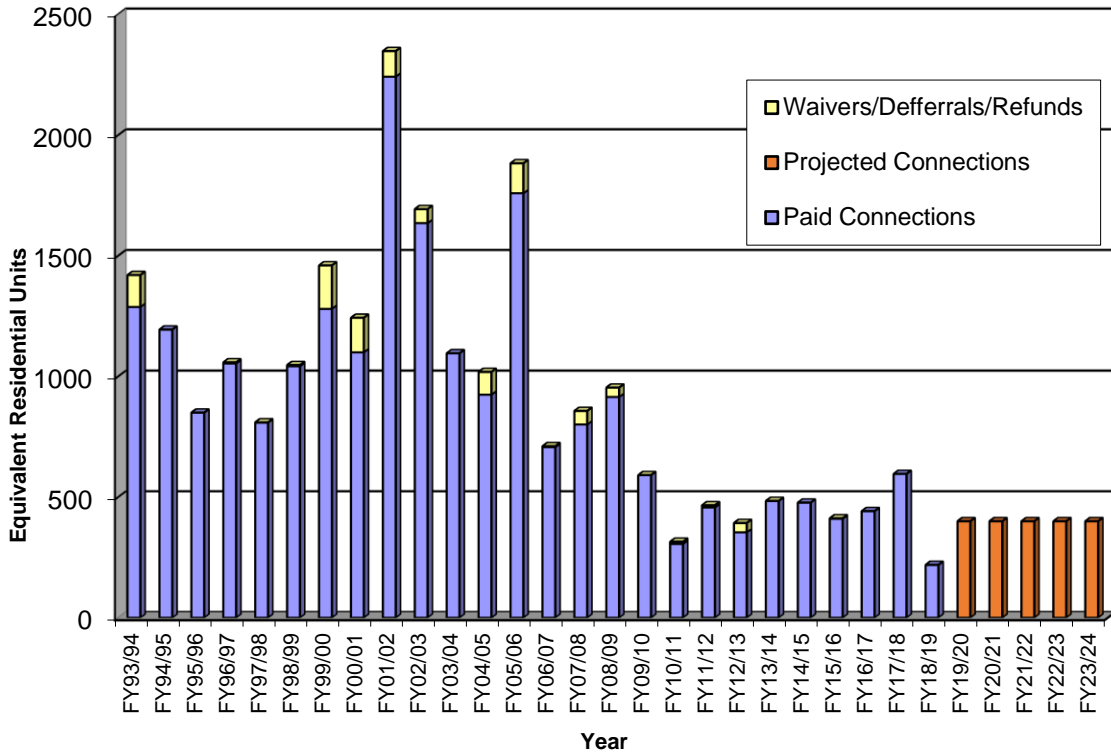
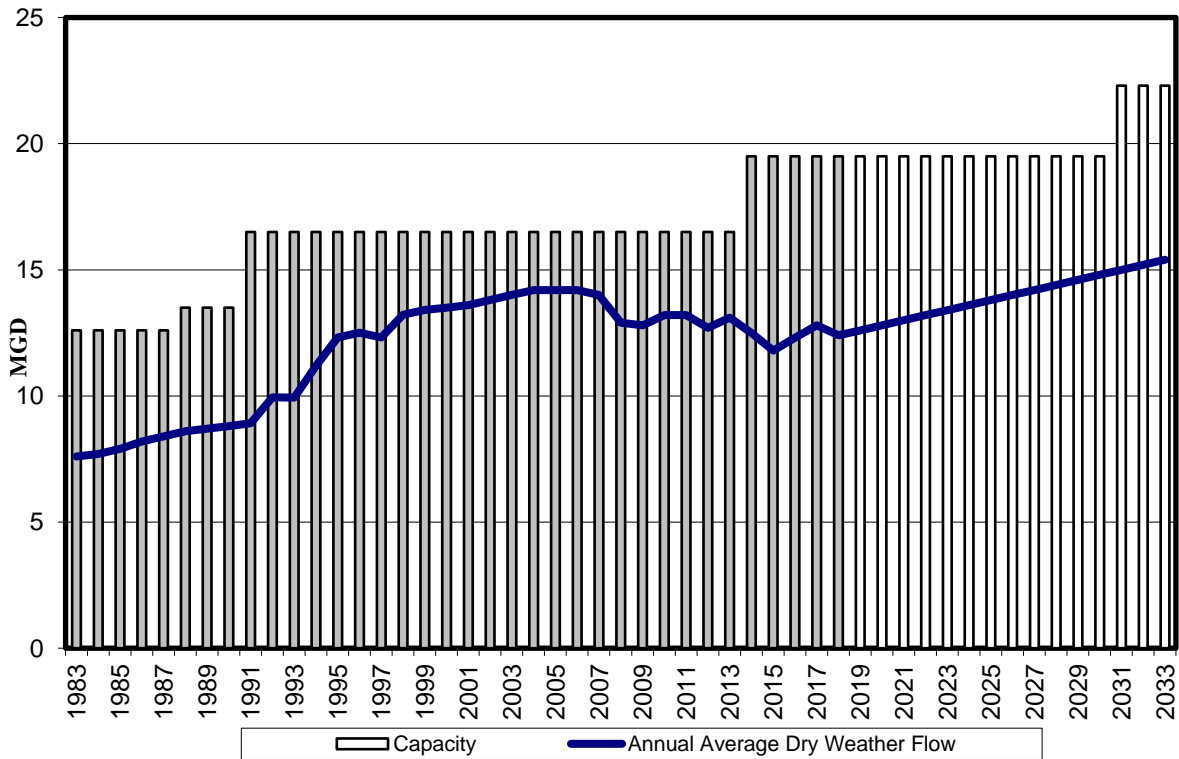


Figure 6 - Delta Diablo Capacity Projections



Advanced Treatment Fund

The Advanced Treatment (AT) Fund was established in July 2011 to set aside funds for planning, evaluation, design, and implementation of new advanced treatment equipment and facilities required by changes in regulatory requirements. The District has been exploring various nutrient removal technologies, including potential modification of existing treatment processes, and will continue to do so over the next several years. Existing District ratepayers are responsible for these types of appropriations.

Revenues

The main sources of revenue for this Fund are the designated AT component of the sewer service charges and the interest earned on invested reserves.

Section 5 contains a summary of projected revenues and budgets for the five-year planning period presented in the Advanced Treatment Fund as well as additional project details.

Recycled Water Fund

In 2000, the District established four funds for the new Recycled Water (RW) enterprise. The District has successfully implemented various projects to expand the program and bring recycled water service to the City of Pittsburg and the City of Antioch for landscape irrigation at numerous municipal parks and two golf courses. Additional projects are proposed to further expand distribution capability, increase reliability, and improve water quality. When fully implemented, these projects would expand the District's ability to meet future recycled demands by importing treated water into the service area for distribution by the District. The four funds in the RW enterprise are: RW General Fund, RW Expansion, RW Asset, and RW Replacement Funds.

Several small projects have been included in the RW Fund to recognize the initiation of replacement requirements of the financial planning program. Although minimal projects are now planned for the Recycled Water Asset and Replacement Funds, the planning concepts that have been applied to the wastewater operations were put into place with these Funds. As the new facilities age or new customers are identified, the CIP covering these areas will develop further.

Sections 6 through 8 contains a summary of projected revenues and budgets for the five-year planning period presented in the Recycled Water Fund as well as additional project details.

Bay Point Capital Asset Rehabilitation Fund

In recent years, development activity has remained slow in the Bay Point area, within Zone 1. Figure 7 illustrates the development projects under consideration.

The Bay Point Capital Asset Rehabilitation Fund is used to collect revenue and report budgets specific to the collection system responsibilities in Zone 1 (Bay Point). The District collects revenue in addition to the normal Sewer Service Charges in Zone 1. In this document, this Fund will be referred to as the 'Bay Point Capital Asset Rehabilitation Fund'. These revenues are being collected and separately identified to assure correct accounting and to assure that these funds are used only for collection system renewal and replacements necessary for the operation of the Bay Point collection system.

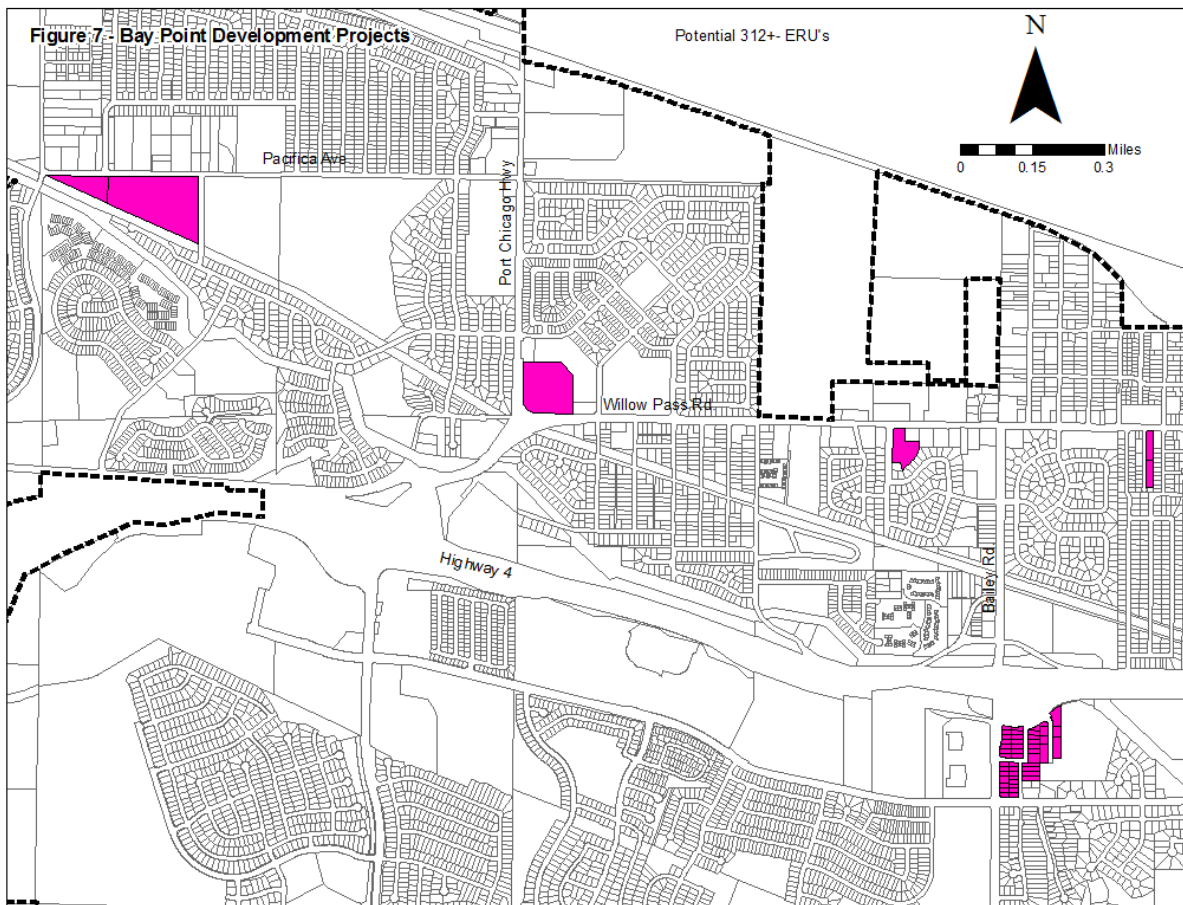
Appropriations

The projects are scheduled in groups of appropriate size and complexity and to gain reasonable economies of scale.

Revenues

The revenue projections are based on the three-year Bay Point Rehabilitation Surcharge components of the Zone 1 Sewer Service Charges and Clean Water State Revolving Fund (SRF) loan proceeds. In 2014, the District secured \$3.7 million in SRF loans at an interest rate of 1.9% for three contract phases of Rehabilitation projects. The first contract was completed in FY14/15. The revenue projection for FY19/20 assumes additional SRF and I-bank loan will be secured.

Section 9 contains a summary of projected revenues and budgets for the five-year planning period presented in the Bay Point Capital Asset Rehabilitation Fund as well as additional project details.



Household Hazardous Waste Fund

In 1996, the District began operating a Household Hazardous Waste (HHW) program. Participation has increased steadily over the years, demonstrating the success of this cooperative effort with the regional partners supporting the facility. The Major Expansion Project, completed in FY08/09, allows for the collection of electronic waste from the District's service area and extended portions of East County.

Revenues

Agency payments and grants will continue to comprise the primary sources of revenue for this Fund. Section 10 contains a summary of projected revenues and budgets for the five-year planning period presented in the Household Hazardous Waste Fund as well as additional project details.

Program Overview

Table 1 presents a summary of capital project appropriations and revenues over this five-year CIP planning period (FY19/20 - FY23/24). The projects in Table 1 have been grouped according to project type and revenue source. The Wastewater Expansion Fund includes projects financed by capital facilities capacity charges. The Capital Asset (CA) Fund includes the capital asset (new assets benefiting existing ratepayers) projects that are financed by the CA component of the District's Sewer Service Charge. The Capital Asset Renewal and Replacement (CARR) Fund includes the Capital Asset Replacement (replacement of existing assets generally at the end of the asset's useful life) projects that are financed by the CAR component of the District's Sewer Service Charge. Grouping projects by fund type preserves the ability to evaluate the sewer-service-charge-financed projects by a review of their respective revenue and budget tables.

Staff estimated the appropriate value received by both existing ratepayers and future connectors so that the fees match the benefits received. The approach allows for shared financial responsibilities between one or more funds and, therefore, requires fund transfers in the proportion that each fund receives benefits. Each project is evaluated to determine what percentage of its value benefits existing ratepayers and what percentage will benefit future connectors. With this in mind, project revenues may come from more than one fund source, but the majority of a project's benefit will determine the fund designation of the project. Table 1 provides detailed information on the funding source for each listed project.

For every project in Table 1 there is a page number, name, project number, priority, the approved budget through the current fiscal year, the projected budget for the project over the next five years, and the estimated total project cost. The page number refers to the location of the project summary sheet in the body of the CIP.

The priority designations are defined in detail in Appendix A. In short, Priority 1 designations are those that are "mandatory" and must be completed to meet capacity or regulatory concerns. Priority 1 designations also include projects that are underway and that would result in substantial disruption or loss if funding was taken away. Priority 2 projects are considered "necessary" projects. They include cyclic maintenance projects, projects with paybacks of less than five years, as well as projects required to enhance reliability. Although Priority 2 projects are considered necessary, they are moderately discretionary. Priority 3 projects include those with paybacks of more than five years or master plan related projects forecast out two years or more. Priority 3 projects are discretionary.

The summary table and all fund tables in the applicable sections present the potential priorities for each of the projects. To present the overall financial health of the fund, ending fund balance projections are included in each summary table. If funding sources deteriorate, the Board can set the priorities for the funding of projects given reduced revenues. In addition, Appendix B provides the CIP policy statements, Appendix C describes the CIP concepts and Appendix D includes the resolution approving the FY19/20 to FY23/24 CIP and the California Environmental Quality Act (CEQA) determination.

Capital Project Requests

The following sections present the individual Capital Project Requests for each of the projects listed in each fund. The Requests present the project description/justification, risk assessment, capital costs, funding sources, anticipated budgets based on cash flow, and anticipated effect on operation and maintenance expenses as required by law.

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**Table 1
Program Summary**

Page	Project Name	Project No.	Priority	Lead Dept.	Approved Budget through FY18/19	Anticipated Budgets					Fund Distribution								
						FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	Estimated Total Project Cost	WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA
Wastewater Capital Asset (Fund 120)																			
CA-3	Permanent Brine Transfer Facility	18109	1	ES	808,741	\$191,259					\$1,000,000	100%							
CA-4	Recycled Water Facility and Treatment Plant Intertie	TBA	1	ES				\$500,000	\$1,200,000	\$1,700,000	50%			50%					
CA-5	Asset Management Program	19109	3	ES	300,000		\$100,000	\$100,000	\$100,000	\$600,000	100%								
CA-6	Conveyance and Treatment Systems Reliability Improvements	18107	3	RRS		\$50,000	\$50,000	\$50,000	\$350,000	\$500,000	100%								
CA-7	East County Bioenergy Project	16117	3	ES	5,634,606		\$12,500,000	\$13,545,529	\$2,319,865	\$34,000,000	79%	14%		7%					
CA-8	Energy and Water Efficiency Improvements	18908	3	ES		\$50,000	\$50,000	\$50,000	\$450,000	\$600,000	50%	50%							
CA-9	Small District Capital Asset Project	19100	3	ES		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	100%								
Wastewater Capital Asset Fund Total					6,743,347	\$391,259	\$12,800,000	\$13,845,529	\$3,819,865	\$1,300,000	\$38,900,000								
Wastewater Capital Asset Replacement (Fund 130)																			
CAR-3	Aboveground Fuel Storage Tank Rehabilitation	TBA	1	ES		\$100,000					\$100,000	100%							
CAR-4	Aeration Basin Area Rehabilitation	TBA	1	RRS		\$90,000	\$100,000	\$100,000			\$290,000	100%							
CAR-5	BHPS Sewage Diversion Pump Rebuilds	TBA	1	RRS			\$60,000	\$60,000			\$120,000	100%							
CAR-6	Chlorine Contact Influent Gates Replacement	TBA	1	RRS				\$400,000	\$1,100,000	\$1,500,000	100%								
CAR-7	Conveyance System Improvements - Sewer Main Blowoffs	TBA	1	ES					\$200,000	\$200,000	100%								
CAR-8	District Office Building Rehabilitation	18113	1	ES	817,163	\$700,000	\$5,000,000	\$2,482,837		\$9,000,000	100%								
CAR-9	District Office Building Roof Replacement	18112	1	ES	2,400,000					\$2,400,000	100%								
CAR-10	Headworks Improvements	17117	1	ES	1,524,286	\$2,475,714	\$5,000,000	\$3,000,000		\$12,000,000	100%								
CAR-11	IT Equipment Replacement	TBA	1	BS		\$70,000	\$325,000	\$85,000	\$400,000	\$100,000	\$980,000	100%							
CAR-12	Lab Equipment Replacement	TBA	1	RRS		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000	100%							
CAR-13	New Combined Project #2	TBA	1	ES			\$200,000	\$600,000		\$800,000	100%								
CAR-14	New Combined Project #3	TBA	1	ES			\$600,000	\$1,500,000	\$900,000	\$3,000,000	100%								
CAR-15	On-Site Fueling Station Replacement	19112	1	ES	200,000	\$300,000				\$500,000	100%								
CAR-16	PPS Raw Sewage Pump Rebuilds	TBA	1	RRS		\$215,000				\$215,000	100%								
CAR-17	Primary Clarifier Area Improvements	17140	1	ES	3,238,070	\$961,930				\$4,200,000	100%								
CAR-18	Primary Clarifier Nos. 1 - 4 Coating	TBA	1	ES				\$400,000	\$500,000	\$500,000	100%								
CAR-19	Pump Station Facilities Repair	80008	1	ES	4,726,234	\$5,773,766	\$3,500,000			\$14,000,000	100%								
CAR-20	Pump Station Grinder Replacements	TBA	1	RRS		\$100,000	\$100,000	\$100,000	\$100,000	\$400,000	100%								
CAR-21	Resource Recovery Facility Master Plan	18120	1	ES	200,000	\$600,000	\$700,000			\$1,500,000	35%	50%		10%		5%			
CAR-22	SCADA Communication Network/PLC Processor Upgrade	18114	1	RRS	646,855	\$100,000	\$100,000	\$153,145		\$1,000,000	90%				10%				
CAR-23	SCADA Master Plan Update	TBA	1	ES					\$500,000	\$500,000	90%				10%				
CAR-24	Sodium Bisulfite Tank Replacement	13105	1	ES	290,443	\$409,557				\$700,000	100%								
CAR-25	Tower Mixing Chamber & Overflow Structure Rehabilitation	TBA	1	ES				\$550,000	\$870,000	\$1,420,000	100%								
CAR-26	Treatment Plant Electrical Switchgear Replacement	17120	1	ES	2,006,272	\$1,243,728	\$1,250,000			\$4,500,000	100%								
CAR-27	Treatment Plant Roadway Maintenance Project	18115	1	ES	248,972	\$40,000			\$1,461,028	\$1,750,000	100%								
CAR-28	Triangle Pump Station Replacement	19111	1	ES	200,000	\$300,000				\$500,000	100%								
CAR-29	Unanticipated WW Treatment & Conveyance Infrastructure Repairs	TBA	1	RRS		\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	100%								
CAR-30	Biosolids Management Master Plan	TBA	2	ES					\$400,000	\$400,000	100%								
CAR-31	Electrical System Master Plan	TBA	2	ES					\$300,000	\$300,000	100%								
CAR-32	Emergency Retention Basin Improvements	19110	2	ES		\$50,000	\$50,000	\$50,000	\$750,000	\$900,000	100%								
CAR-33	ERB Pump Rebuilds	TBA	2	RRS			\$77,000	\$77,000	\$77,000	\$231,000	100%								
CAR-34	PFM 2401 Dresser Coupler Removal	TBA	2	ES			\$250,000			\$250,000	100%								
CAR-35	RAS Pump Rehabilitation	TBA	2	RRS					\$300,000	\$300,000	100%								
CAR-36	Sewer Permit Software Replacement	18107	2	ES		\$50,000				\$50,000	100%								
CAR-37	Vehicle Replacements	TBA	2	RRS		\$645,000	\$400,000			\$1,045,000	100%								
Wastewater Capital Asset Replacement Fund Total					16,498,295	\$14,449,695	\$17,937,000	\$9,782,982	\$7,683,028	\$1,225,000	\$67,576,000								
Wastewater Expansion (Fund 140)																			
E-3	Bridgehead Phase IV Expansion - Force Main Completion	10178	3	ES					\$700,000	\$3,300,000	\$4,000,000		100%						
Wastewater Expansion Fund Total					0				\$700,000	\$3,300,000	\$4,000,000								

**Table 1
Program Summary**

Page	Project Name	Project No.	Priority	Lead Dept.	Approved Budget through FY18/19	Anticipated Budgets					Fund Distribution							
						FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	Estimated Total Project Cost	WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp
Advanced Treatment (Fund 125)																		
AT-3	Nutrient Technology Research and Innovation	17123	1	ES	100,000				\$250,000	\$250,000	\$600,000				100%			
AT-4	Tower Trickling Filters Improvements	TBA	1	ES					\$2,000,000	\$4,000,000	\$6,000,000		50%		50%			
Advanced Treatment Fund Total					100,000				\$2,250,000	\$4,250,000	\$6,600,000							
Recycled Water Capital Asset (Fund 220)																		
RWA-3	Existing Combined Project #2	TBA	3	ES					\$250,000	\$850,000	\$1,100,000					100%		
RWA-4	Recycled Water Master Plan Update	TBA	3	ES					\$300,000		\$300,000				50%	50%		
RWA-5	Small Recycled Water Facility Capital Asset Project	19103	3	ES		\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000					100%		
RWA-6	Treatment Plant Flow Equalization Improvements - Emergency Storage Basin	TBA	3	ES					\$125,000		\$125,000					100%		
Recycled Water Capital Asset Fund Total					0	\$50,000	\$50,000	\$50,000	\$725,000	\$900,000	\$1,775,000							
Recycled Water Capital Asset Replacement (Fund 230)																		
RWR-3	Existing Combined Project #1	TBA	1	ES					\$225,000	\$375,000	\$600,000						100%	
RWR-4	DEC Storage Tank Rehabilitation	TBA	2	ES					\$250,000	\$750,000	\$1,000,000						100%	
RWR-5	New Combined Project #1	TBA	2	RRS		\$75,000			\$500,000	\$582,000	\$1,157,000						100%	
RWR-6	Recycled Water Distribution System Improvements	19114	3	ES						\$500,000	\$500,000						100%	
RWR-7	Unanticipated Recycled Water Infrastructure Repairs	19104	3	RRS		\$100,000	\$50,000	\$50,000	\$25,000	\$25,000	\$250,000						100%	
Recycled Water Capital Asset Replacement Fund Total					0	\$175,000	\$50,000	\$50,000	\$1,000,000	\$2,232,000	\$3,507,000							
Recycled Water Expansion (Fund 240)																		
RWE-3	Recycled Water Distribution System Expansion	18110	3	ES						\$150,000	\$150,000							100%
Recycled Water Expansion Fund Total					0					\$150,000	\$150,000							
Bay Point Capital Asset Rehabilitation (Fund 520)																		
BP-4	Bay Point Overlay Manhole Adjustments	TBA	1	ES		\$250,000					\$250,000							100%
BP-3	Bay Point Rehabilitation Phase IV	18119	1	ES	798,473	\$4,051,527	\$1,250,000				\$6,100,000							100%
BP-6	Facility Condition Assessment	18121	1	ES	617,048	\$682,952					\$1,300,000		35%					65%
BP-5	River Watch Settlement Compliance	TBA	1	ES		\$670,000	\$720,000				\$1,390,000		45%					55%
BP-7	Unanticipated Bay Point Repairs	TBA	2	ES		\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000		25%					75%
Bay Point Capital Asset Rehabilitation Fund Total					1,415,521	\$5,754,479	\$2,070,000	\$100,000	\$100,000	\$100,000	\$9,540,000							
Household Hazardous Waste (Fund 310)																		
HHW-3	Household Hazardous Waste Improvements	18105	3	ES		\$25,000	\$25,000	\$25,000	\$25,000	\$300,000	\$400,000							100%
Household Hazardous Waste Fund Total					0	\$25,000	\$25,000	\$25,000	\$25,000	\$300,000	\$400,000							
					24,757,163	\$20,845,433	\$32,932,000	\$23,853,511	\$16,302,893	\$13,757,000	\$132,448,000							

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Permanent Brine Transfer Facility

Project Number: 18109

Priority: 1

Type of Project: Capital Asset

Lead Department: Engineering Services

Description/Justification:

This project consists of constructing a 20,000 gallon brine transfer facility that will be used to store and discharge the brine that is delivered by The Dow Chemical (DOW) to the District's treatment plant for processing by the District. Dow desires to replace the existing temporary brine transfer facility in a cost saving effort and will be responsible for all cost incurred in connection to this project. The District will own and maintain the facility, with Dow having first rights to the 20,000 gallon capacity.

Project Results in an Impaired Asset: No

R/W Acquisition: No

Risk Assessment:

This is a low risk project because the existing temporary brine facility provides adequate functionality to receive and meter brine into the treatment plant. This project is a cost savings measure for Dow to eliminate the recurring charges to rent and maintain the temporary equipment.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence

Secondary Goal: N/A

Estimated Completion: FY19/20

Estimated O&M Costs: To be determined

Estimated Useful Life: 20 years

Project Budget:

Total Approved Budget thru FY18/19	\$808,741
FY19/20 Budget	\$191,259
Future Fiscal Year(s) Budget	
Estimated Total Project Cost	\$1,000,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$191,259					\$191,259
Contingency						
5-Year Total	\$191,259					\$191,259

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
100%								

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Recycled Water Facility and Treatment Plant Intertie
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset **Lead Department:** Engineering Services

Description/Justification:

The project includes planning, design, and construction of a new pipeline for returning tertiary treated effluent from the Recycled Water Facility (RWF) to the secondary effluent process at the Wastewater Treatment Plant (WWTP). The RWF was constructed with two stub outs that would allow for an intertie between the RWF and the WWTP. The pipeline will address occasional treatment plant upsets by allowing for additional treatment of noncompliant loads. These loads are due to changes in the customer’s influent characteristics (i.e. unanticipated high TSS) to the WWTP.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a low risk project because the treatment plant and RWF facilities are currently designed to function without the intertie, and under normal operating parameters do so successfully. In the event that an intertie is needed, temporary piping and pumps can be utilized to bring tertiary treated effluent back to the secondary effluent stream. This project will improve response time and reduce the burden on staff in the event that an intertie is needed.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY23/24 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$1,700,000
Estimated Total Project Cost	\$1,700,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative					\$200,000	\$200,000
Plan/Design				\$500,000		\$500,000
Construction					\$1,000,000	\$1,000,000
Contingency						
5-Year Total				\$500,000	\$1,200,000	\$1,700,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
50%				50%				

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Asset Management Program

Project Number: 19109

Priority: 3

Type of Project: Capital Asset

Lead Department: Engineering Services

Description/Justification:

The project includes planning, evaluation, design, and implementation of a new Asset Management (AM) system for the District. The new AM system will replace the existing Mainsaver software. The AM system will detail all the District's assets, along with age and condition, ongoing maintenance and issues, risk of failure, and consequence of failure. The existing system is limited and does not support the District's needs for rate modeling and long-term forecasting, resource planning, and risk analysis.

Project Results in an Impaired Asset: Yes

R/W Acquisition: No

Risk Assessment:

This is a low risk project as the existing system provides adequate functionality to track assets and their maintenance to support the treatment process.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence

Secondary Goal: N/A

Estimated Completion: FY22/23

Estimated O&M Costs: To be determined

Estimated Useful Life: 10 years

Project Budget:

Total Approved Budget thru FY18/19	\$300,000
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$300,000
Estimated Total Project Cost	\$600,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design		\$100,000	\$100,000	\$100,000		\$300,000
Construction						
Contingency						
5-Year Total		\$100,000	\$100,000	\$100,000		\$300,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
100%								

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Conveyance and Treatment Systems Reliability Improvements
Project Number: 18107 **Priority:** 3
Type of Project: Capital Asset **Lead Department:** Resource Recovery Services

Description/Justification:

This project will evaluate, design, and perform activities to increase the reliability of the District's pumping and conveyance system, as outlined in the Sewer System Management Plan (SSMP). Project activities include risk assessment, improved inspection, testing, and response protocol and system enhancement, and expanded mapping for use in development and implementation of an asset management program. A new appropriation is established each fiscal year.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project will identify potential risks and deficiencies in the conveyance and treatment systems and activities to increase reliability, however, because there are not immediate drivers for these improvements this project is considered low risk.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined

Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$50,000
Future Fiscal Year(s) Budget	\$450,000
Estimated Total Project Cost	\$500,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$50,000	\$50,000	\$50,000	\$350,000		\$500,000
Contingency						
5-Year Total	\$50,000	\$50,000	\$50,000	\$350,000		\$500,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
100%								

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: East County Bioenergy Project

Project Number: 16117

Priority: 3

Type of Project: Capital Asset

Lead Department: Engineering Services

Description/Justification:

This project is a public-private partnership between the District and Contra Costa Waste Services, Inc., dba Mt. Diablo Resource Recovery to evaluate and construct facilities to manage regional biosolids, wood waste, and food waste, and provide additional sources of energy from other wasted materials. The project will produce long-term sustainable alternatives that are necessary to meet increasingly restrictive regulations and diminishing landfill capacity.

Project Results in an Impaired Asset: No

R/W Acquisition: No

Risk Assessment:

This project is considered low risk because the East County Bioenergy Project provides additional operational activities outside of the core wastewater treatment process.

This Project Supports the Following District Goal(s):

Primary Goal: Workplace Innovation

Secondary Goal: N/A

Estimated Completion: FY22/23

Estimated O&M Costs: To be determined

Estimated Useful Life: 30 years

Project Budget:

Total Approved Budget thru FY18/19	\$5,634,606
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$28,365,394
Estimated Total Project Cost	\$34,000,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction		\$12,500,000	\$13,545,529	\$2,319,865		\$28,365,394
Contingency						
5-Year Total		\$12,500,000	\$13,545,529	\$2,319,865		\$28,365,394

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
79%	14%		7%					

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Energy and Water Efficiency Improvements
Project Number: 18908 **Priority:** 3
Type of Project: Capital Asset **Lead Department:** Engineering Services

Description/Justification:

The Energy and Water Efficiency Improvements project will allow for the implementation of various energy and water efficiency measures that will improve the District's environmental performance and lead to long-term energy and water savings. In its effort to be a leader in environmental stewardship, the District is continually looking for ways to improve energy and water efficiency.

Project Results in an Impaired Asset: TBD **R/W Acquisition:** No

Risk Assessment:

This project is low risk because it does not impact or improve the functionality of existing infrastructure but will better manage the resources needed to support the conveyance and treatment processes.

This Project Supports the Following District Goal(s):

Primary Goal: Workplace Innovation **Secondary Goal:** N/A

Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 10 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$50,000
Future Fiscal Year(s) Budget	\$550,000
Estimated Total Project Cost	\$600,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$50,000	\$50,000	\$50,000	\$450,000		\$600,000
Contingency						
5-Year Total	\$50,000	\$50,000	\$50,000	\$450,000		\$600,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
50%	50%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Small District Capital Asset Project

Project Number: 19100

Priority: 3

Type of Project: Capital Asset

Lead Department: Engineering Services

Description/Justification:

The Small District Capital Asset Project will allow the implementation of conveyance system and treatment plant improvements which are identified during the course of a particular fiscal year, but not included as a separate line item in the Capital Asset Fund budget. This project also includes a comprehensive safety inspection and assessment of existing facilities to evaluate compliance with all applicable safety regulations and requirements.

Project Results in an Impaired Asset: No

R/W Acquisition: No

Risk Assessment:

Depending on the specific improvement identified, they could hold a high, medium, or low risk.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence

Secondary Goal: N/A

Estimated Completion: Programmatic

Estimated O&M Costs: To be determined

Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$100,000
Future Fiscal Year(s) Budget	\$400,000
Estimated Total Project Cost	\$500,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Contingency						
5-Year Total	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
100%								

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

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Table 4
Delta Diablo
Five Year Capital Improvement Program
FY19/20 - FY23/24

Wastewater Capital Asset Replacement Fund Project Budget

Page	Project Name	Project No.	Priority	Approved Budget thru FY18/19	Anticipated Budgets							Estimated Total Project Cost
					FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	Total Project Cost		
CAR-3	Aboveground Fuel Storage Tank Rehabilitation	TBA	1		\$100,000							\$100,000
CAR-4	Aeration Basin Area Rehabilitation	TBA	1		\$90,000	\$100,000	\$100,000					\$290,000
CAR-5	BHPS Sewage Diversion Pump Rebuilds	TBA	1			\$60,000	\$60,000					\$120,000
CAR-6	Chlorine Contact Influent Gates Replacement	TBA	1				\$400,000	\$1,100,000				\$1,500,000
CAR-7	Conveyance System Improvements - Sewer Main Blowoffs	TBA	1					\$200,000				\$200,000
CAR-8	District Office Building Rehabilitation	18113	1	\$817,163	\$700,000	\$5,000,000	\$2,482,837					\$9,000,000
CAR-9	District Office Building Roof Replacement	18112	1	\$2,400,000								\$2,400,000
CAR-10	Headworks Improvements	17117	1	\$1,524,286	\$2,475,714	\$5,000,000	\$3,000,000					\$12,000,000
CAR-11	IT Equipment Replacement	TBA	1		\$70,000	\$325,000	\$85,000	\$400,000	\$100,000			\$980,000
CAR-12	Lab Equipment Replacement	TBA	1		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000			\$125,000
CAR-13	New Combined Project #2	TBA	1			\$200,000	\$600,000					\$800,000
CAR-14	New Combined Project #3	TBA	1			\$600,000	\$1,500,000	\$900,000				\$3,000,000
CAR-15	On-Site Fueling Station Replacement	19112	1	\$200,000	\$300,000							\$500,000
CAR-16	PPS Raw Sewage Pump Rebuilds	TBA	1		\$215,000							\$215,000
CAR-17	Primary Clarifier Area Improvements	17140	1	\$3,238,070	\$961,930							\$4,200,000
CAR-18	Primary Clarifier Nos. 1 - 4 Coating	TBA	1				\$400,000	\$500,000	\$500,000	\$500,000		\$1,400,000
CAR-19	Pump Station Facilities Repair	80008	1	\$4,726,234	\$5,773,766	\$3,500,000						\$14,000,000
CAR-20	Pump Station Grinder Replacements	TBA	1		\$100,000	\$100,000	\$100,000	\$100,000				\$400,000
CAR-21	Resource Recovery Facility Master Plan	18120	1	\$200,000	\$600,000	\$700,000						\$1,500,000
CAR-22	SCADA Communication Network/PLC Processor Upgrade	18114	1	\$646,855	\$100,000	\$100,000	\$153,145					\$1,000,000
CAR-23	SCADA Master Plan Update	TBA	1					\$500,000				\$500,000
CAR-24	Sodium Bisulfite Tank Replacement	13105	1	\$290,443	\$409,557							\$700,000
CAR-25	Tower Mixing Chamber & Overflow Structure Rehabilitation	TBA	1				\$550,000	\$870,000				\$1,420,000
CAR-26	Treatment Plant Electrical Switchgear Replacement	17120	1	\$2,006,272	\$1,243,728	\$1,250,000						\$4,500,000
CAR-27	Treatment Plant Roadway Maintenance Project	18115	1	\$248,972	\$40,000			\$1,461,028				\$1,750,000
CAR-28	Triangle Pump Station Replacement	19111	1	\$200,000	\$300,000							\$500,000
CAR-29	Unanticipated WW Treatment & Conveyance Infrastructure Repairs	TBA	1		\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$400,000	\$1,000,000
CAR-30	Biosolids Management Master Plan	TBA	2									\$400,000
CAR-31	Electrical System Master Plan	TBA	2					\$300,000				\$300,000
CAR-32	Emergency Retention Basin Improvements	19110	2		\$50,000	\$50,000	\$50,000	\$750,000				\$900,000
CAR-33	ERB Pump Rebuilds	TBA	2			\$77,000	\$77,000	\$77,000				\$231,000
CAR-34	PFM 2401 Dresser Coupler Removal	TBA	2			\$250,000						\$250,000
CAR-35	RAS Pump Rehabilitation	TBA	2					\$300,000				\$300,000
CAR-36	Sewer Permit Software Replacement	18107	2		\$50,000							\$50,000
CAR-37	Vehicle Replacements	TBA	2		\$645,000	\$400,000						\$1,045,000
Estimated Total Project Cost					\$14,449,695	\$17,937,000	\$9,782,982	\$7,683,028	\$1,225,000	\$67,576,000		

Table 5
Delta Diablo
Five Year Capital Improvement Program
FY19/20 - FY23/24
Wastewater Capital Asset Replacement Fund Summary

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Project Budgets	\$14,730,228	\$17,951,000	\$14,363,263	\$7,883,028	\$1,250,000	\$56,177,519
CEC Debt Service - FOG Recg Facility	\$53,916	\$53,916	\$53,916	\$53,916	\$53,916	\$269,580
SRF Debt Service - Aeration Basin Imp	\$326,358	\$326,358	\$326,358	\$326,358	\$326,358	\$1,631,790
SRF Debt Service - Pump Station Fac	\$80,337	\$454,431	\$454,431	\$454,431	\$454,431	\$1,898,061
SRF Debt Service - PB Forcemain Imp	\$383,021	\$382,980	\$382,938	\$382,895	\$382,852	\$1,914,686
Estimated Debt Service - Headworks Imp	\$780,617	\$780,617	\$780,617	\$780,617	\$780,617	\$3,903,085
Estimated Debt Service - Cogen Engines and Gas Treatment			\$225,000	\$225,000	\$225,000	\$675,000
Estimated Debt Service - Building Rehab		\$487,886	\$487,886	\$487,886	\$487,886	\$1,951,544
Inter-fund Loan Payment to Advanced Treatment					\$1,500,000	\$1,500,000
5-Year Total Budget	\$16,354,477	\$20,437,188	\$17,074,409	\$10,594,131	\$5,461,060	\$69,921,265
Revenues						
Sewer Service Charges	\$2,518,320	\$3,072,350	\$3,748,267	\$4,572,886	\$5,487,463	
Interest Earnings	\$1,177	\$22,394	\$8,257	\$11,416	\$768	
Property Taxes	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	
Inter-fund Loan Payment from CFCC	\$1,000,000	\$900,000	\$800,000	\$800,000	\$800,000	
Loan Proceeds - Pump Station Repairs	\$5,773,766	\$3,500,000				
Est. Loan Proceeds - Headworks Imp	\$2,475,714	\$5,000,000	\$3,000,000			
Est. Loan Proceeds - Cogen Engines and Gas Treatment			\$4,545,595			
Est. Loan Proceeds - Building Rehab.		\$5,000,000	\$2,482,837			
Est. Loan Proceeds - Inter-fund Loan	\$4,000,000					
Est. Loan Proceeds				\$1,000,000	\$2,000,000	
Inter-fund Transfer from WW CA			\$700,000	\$1,500,000		
Total Revenue	\$17,768,977	\$19,494,744	\$17,284,956	\$9,884,302	\$10,288,231	
Starting Fund Balance	\$78,439	\$1,492,939	\$550,495	\$761,042	\$51,213	
Total Revenue	\$17,768,977	\$19,494,744	\$17,284,956	\$9,884,302	\$10,288,231	
Total Budgets	(\$16,354,477)	(\$20,437,188)	(\$17,074,409)	(\$10,594,131)	(\$5,461,060)	
Fund Balance	\$1,492,939	\$550,495	\$761,042	\$51,213	\$4,878,384	

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Aboveground Fuel Storage Tank Rehabilitation
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

An inspection and assessment of ten above ground diesel/oil storage tanks at the treatemnt plant and pump stations identified deficiencies which include secondary containmnet failures on muliple tanks, and possible primary containment failure of the tank at the Pittsburg Pump Station. This project will repair and/or replace the tanks as needed and will ensure that the tanks meet current codes and standards.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a high risk project because a complete failure of these tanks would result in costly environmental cleanup and would leave the various generator engines without a fuel/oil supply which is needed to operate these facilities during a power outage.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY19/20 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 20 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$100,000
Future Fiscal Year(s) Budget	
Estimated Total Project Cost	\$100,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$100,000					\$100,000
Contingency						
5-Year Total	\$100,000					\$100,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Aeration Basin Area Rehabilitation

Project Number: To be assigned **Priority:** 1

Type of Project: Capital Asset Replacement **Lead Department:** Resource Recovery Services

Description/Justification:

The equipment in the Aeration Basin area is approaching the end of its useful life and requires rehabilitation or replacement. Items include replacement of the diffuser and lock rings in the five Aeration Basins, the sealing of building 4501, installation of an air filtration system to building 4501, and the replacement of a slide gate.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a high risk project because proper maintenance and replacement of aeration components is critical to ensure effective and efficient introduction of air to support the biological treatment process that takes place in the Aeration Basin.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY21/22 **Estimated O&M Costs:** \$4,000

Estimated Useful Life: 10 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$90,000
Future Fiscal Year(s) Budget	\$200,000
Estimated Total Project Cost	\$290,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$90,000	\$100,000	\$100,000			\$290,000
Contingency						
5-Year Total	\$90,000	\$100,000	\$100,000			\$290,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: BHPS Sewage Diversion Pump Rebuilds

Project Number: To be assigned **Priority:** 1

Type of Project: Capital Asset Replacement **Lead Department:** Resource Recovery Services

Description/Justification:

Bridgehead Pump Station diversion pumps No. 1, 2 and 3 have reached the end of their useful life and are due for replacement. This project is for the purchase and installation of 3 new submersible pumps.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a medium risk project because there is redundancy in the diversion system so a single pump failure would not significantly impact the facilities operation, however, all of the pumps have excessive impeller wear, exposed pump housings, and are experiencing deterioration of their wiring.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY21/22 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$120,000
Estimated Total Project Cost	\$120,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction		\$60,000	\$60,000			\$120,000
Contingency						
5-Year Total		\$60,000	\$60,000			\$120,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Chlorine Contact Influent Gates Replacement

Project Number: To be assigned **Priority:** 1

Type of Project: Capital Asset Replacement **Lead Department:** Resource Recovery Services

Description/Justification:

The project includes planning, design, and construction of new influent control gates for the Treatment Plant Chlorine Contact Tanks (CCTs). The influent gates of the distribution structure and the individual CCTs are nearing the end of their useful life and do not adequately seal when in the closed position. Planning/design is scheduled to start in FY21/22 with construction to commence in FY22/23.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is identified as medium risk as the current condition of the gates does allow for partial isolation of the CCTs and their function is currently acceptable under normal operating conditions. However, complete isolation is required for proper maintenance and operation.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 30 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$1,500,000
Estimated Total Project Cost	\$1,500,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative			\$50,000	\$150,000		\$200,000
Plan/Design			\$350,000			\$350,000
Construction				\$950,000		\$950,000
Contingency						
5-Year Total			\$400,000	\$1,100,000		\$1,500,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Conveyance System Improvements - Sewer Main Blowoffs
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:
 The District maintains an extensive network of pressurized and gravity conveyance system pipelines. Placed at the low points in the pressurized sewer forcemains, blowoffs allow for the removal of grit and other debris that settles within the pipe while also providing the capability to completely drain the pipeline when needed for maintenance operations. This project consists of condition evaluation and preventative repairs to extend the service life of conveyance assets. The identified project is Sewer Main Blowoff Rehabilitation.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:
 This project is identified as low risk as there are no immediate drivers for the blowoffs to be repaired or replaced. However, the overall condition of the blowoff assemblies are unknown and their failure could result in the accumulation of material within the pipeline that could restrict flows, or in the event of corroded piping of the assemblies, leakage can exist.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 30 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$200,000
Estimated Total Project Cost	\$200,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative				\$50,000		\$50,000
Plan/Design						
Construction				\$150,000		\$150,000
Contingency						
5-Year Total				\$200,000		\$200,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: District Office Building Rehabilitation
Project Number: 18113 **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:
 In 2016, the District completed a condition assessment effort for the Plant Operations Center (POC) and Treatment Plant (TP) office buildings. The report concluded that many of the building systems, including mechanical, plumbing, electrical, and interior finishes were nearing the end of their useful lives. This project will consist of predesign, design, and construction of identified essential building upgrades required to properly maintain the building functions.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:
 This project is identified as a medium risk because the buildings systems, such as mechanical, plumbing, electrical, etc., are nearing the end of their useful lives and their failures could result in work spaces that are not safe, functional, or fit for human occupancy.

This Project Supports the Following District Goal(s):

Primary Goal: Financial Sustainability **Secondary Goal:** Operational Excellence
Estimated Completion: FY21/22 **Estimated O&M Costs:** To be determined
Estimated Useful Life: 20 years

Project Budget:

Total Approved Budget thru FY18/19	\$817,163
FY19/20 Budget	\$700,000
Future Fiscal Year(s) Budget	\$7,482,837
Estimated Total Project Cost	\$9,000,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$700,000	\$5,000,000	\$2,482,837			\$8,182,837
Contingency						
5-Year Total	\$700,000	\$5,000,000	\$2,482,837			\$8,182,837

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: District Office Building Roof Replacement
Project Number: 18112 **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

In 2016, the District completed a condition assessment effort for the Plant Operations Center (POC) and Treatment Plant (TP) office buildings. The report concluded that many of the building systems, including roofing, mechanical, plumbing, and electrical were nearing the end of their useful lives. This project will involve planning, design, and construction of roof, sheet metal, gutter, and downspout replacements for the POC and TP buildings in order to maintain the buildings in a safe, occupiable, and functional condition.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is identified as a high risk because the buildings roofs and their ancillary systems are nearing the end of their useful lives and leaks in the existing roofs have been detected. Additionally, moisture on the building interiors could create a hazardous environment for staff. The roofing replacement is critical.

This Project Supports the Following District Goal(s):

Primary Goal: Financial Sustainability **Secondary Goal:** Operational Excellence
Estimated Completion: FY18/19 **Estimated O&M Costs:** To be determined
Estimated Useful Life: 20 years

Project Budget:

Total Approved Budget thru FY18/19	\$2,400,000
FY19/20 Budget	
Future Fiscal Year(s) Budget	
Estimated Total Project Cost	\$2,400,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction						
Contingency						
5-Year Total						

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Headworks Improvements

Project Number: 17117

Priority: 1

Type of Project: Capital Asset Replacement

Lead Department: Engineering Services

Description/Justification:

The existing headworks, which provides the initial screening and grit removal of wastewater, is near its full operating capacity and components of the facility are nearing the end of their service lives. This project includes design and construction to rehabilitate the headworks structure and replace major equipment to provide effective and efficient screening and grit removal at the District's Wastewater Treatment Plant.

Project Results in an Impaired Asset: Yes

R/W Acquisition: No

Risk Assessment:

This project is identified as a high risk because a failure in any of the headworks components could stress the downstream treatment processes and put critical pumps at risk of accelerated wear or failure.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence

Secondary Goal: N/A

Estimated Completion: FY21/22

Estimated O&M Costs: To be determined

Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	\$1,524,286
FY19/20 Budget	\$2,475,714
Future Fiscal Year(s) Budget	\$8,000,000
Estimated Total Project Cost	\$12,000,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$2,475,714	\$5,000,000	\$3,000,000			\$10,475,714
Contingency						
5-Year Total	\$2,475,714	\$5,000,000	\$3,000,000			\$10,475,714

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan	\$500,000	\$1,000,000	\$8,000,000			\$9,500,000
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: IT Equipment Replacement

Project Number: To be assigned

Priority: 1

Type of Project: Capital Asset Replacement

Lead Department: Business Services

Description/Justification:

This Unanticipated Replacement Project will allow the repair/replacement/improvement of IT equipment that is not functioning properly, or has early service life failure during the course of a particular fiscal year.

Project Results in an Impaired Asset: No

R/W Acquisition: No

Risk Assessment:

This programmatic project is necessary to ensure that repairs or replacement equipment is available when needed and that discretionary funds are available.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence

Secondary Goal: N/A

Estimated Completion: Programmatic

Estimated O&M Costs: To be determined

Estimated Useful Life: 20 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$70,000
Future Fiscal Year(s) Budget	\$910,000
Estimated Total Project Cost	\$980,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$70,000	\$325,000	\$85,000	\$400,000	\$100,000	\$980,000
Contingency						
5-Year Total	\$70,000	\$325,000	\$85,000	\$400,000	\$100,000	\$980,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Lab Equipment Replacement

Project Number: To be assigned

Priority: 1

Type of Project: Capital Asset Replacement

Lead Department: Resource Recovery Services

Description/Justification:

The Unanticipated Replacement Project will allow the repair/replacement/improvement of lab equipment that is not functioning properly, or has early service life failure during the course of a particular fiscal year.

Project Results in an Impaired Asset: TBD

R/W Acquisition: No

Risk Assessment:

This programmatic project is necessary to ensure that repairs or replacement equipment is available when needed and that discretionary funds are available.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence

Secondary Goal: Financial Sustainability

Estimated Completion: Programmatic

Estimated O&M Costs: To be determined

Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$25,000
Future Fiscal Year(s) Budget	\$100,000
Estimated Total Project Cost	\$125,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000
Contingency						
5-Year Total	\$25,000	\$25,000	\$25,000	\$25,000	\$25,000	\$125,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, **CA:** Capital Asset, **CAR:** Capital Asset Replacement, **Exp:** Expansion, **AT:** Advanced Treatment
RW: Recycled Water, **BP CA:** Bay Point Capital Asset Rehabilitation, **HHW:** Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: New Combined Project #2
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:
 This multiphase project will assess perimeter security concerns at the District's treatment plant and remote sites and implement measures (physical and video surveillance) to ensure staff and the general public remain safe. This project will also prevent District assets from being vandalized and/or stolen. Phase I is the assessment and is anticipated to start in FY20/21. Phase II will be design and construction and is planned to start in FY21/22. The combined project consists of the Pump Station Fence Improvements and Treatment Plant/Remote Site Security Upgrade.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:
 This project is considered high risk as instances of unauthorized personnel gaining access to the District's facilities have increased in recent years. Without a permanent solution, District assets will continue to be stolen and/or vandalized. Additionally, staff and the general public's safety may be at risk.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY21/22 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 15 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$800,000
Estimated Total Project Cost	\$800,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design		\$200,000				\$200,000
Construction			\$600,000			\$600,000
Contingency						
5-Year Total		\$200,000	\$600,000			\$800,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, **CA:** Capital Asset, **CAR:** Capital Asset Replacement, **Exp:** Expansion, **AT:** Advanced Treatment
RW: Recycled Water, **BP CA:** Bay Point Capital Asset Rehabilitation, **HHW:** Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: New Combined Project #3
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

In FY18/19, the District completed a condition assessment effort of the District's conveyance system, both force mains and gravity interceptors. The assessment concluded that a portion of the manholes, including the access roads to these manholes, need to be rehabilitated. This project will consist of planning, design, and construction of approximately 50 identified manholes and four access roads. Planning and design is anticipated to start in FY21/22 with construction to commence in FY22/23. The combined project consists of the Conveyance System Manhole Rehabilitation and Easement Access Road Improvements.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is identified as a high risk. The identified manholes are nearing the end of their useful lives and failures could lead to sewer pipe obstruction resulting in sewer overflows and potentially, impacting public health.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** Financial Sustainability
Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined
Estimated Useful Life: 30 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$3,000,000
Estimated Total Project Cost	\$3,000,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction		\$600,000	\$1,500,000	\$900,000		\$3,000,000
Contingency						
5-Year Total		\$600,000	\$1,500,000	\$900,000		\$3,000,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, **CA:** Capital Asset, **CAR:** Capital Asset Replacement, **Exp:** Expansion, **AT:** Advanced Treatment
RW: Recycled Water, **BP CA:** Bay Point Capital Asset Rehabilitation, **HHW:** Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: On-Site Fueling Station Replacement
Project Number: 19112 **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:
 The project includes planning, evaluation, design, and construction of a new gas and diesel fueling station for the District. The existing underground storage tanks for the fueling station are nearing the end of their useful lives and require replacement.

Project Results in an Impaired Asset: Yes **R/W Acquisition:** No

Risk Assessment:
 The underground storage tanks and monitoring systems have reached the end of their useful life and a failure of underground storage tanks could result in release of gasoline and/or diesel into the surrounding soil which would require extensive site cleanup, remediation, and monitoring into the future. Because there has been indication of breaches, and monitoring systems are currently inadequate, this project is a high risk.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY19/20 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 10 years

Project Budget:

Total Approved Budget thru FY18/19	\$200,000
FY19/20 Budget	\$300,000
Future Fiscal Year(s) Budget	
Estimated Total Project Cost	\$500,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$300,000					\$300,000
Contingency						
5-Year Total	\$300,000					\$300,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: PPS Raw Sewage Pump Rebuilds

Project Number: To be assigned **Priority:** 1

Type of Project: Capital Asset Replacement **Lead Department:** Resource Recovery Services

Description/Justification:

The sewage pumps at the Pittsburg Pump Station, Pumps P2401, P2402, and P2004 have shown signs of excessive wear and have been in operation past their service life. This project is to remove, inspect and rebuild the pumps to extend their useful life.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a high risk project because proper maintenance of the main sewage pumps is essential to effectively and efficiently convey the flows being received at the Pittsburg Pump Station.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY19/20 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 5 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$215,000
Future Fiscal Year(s) Budget	
Estimated Total Project Cost	\$215,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$215,000					\$215,000
Contingency						
5-Year Total	\$215,000					\$215,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Primary Clarifier Area Improvements
Project Number: 17140 **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:
 Many of the components in the primary clarifier area are nearing or have exceeded their useful life. Advanced deterioration and corrosion has occurred on many components and requires replacement. Solids pumping equipment is no longer supported by the manufacturer, making it difficult for maintenance to make repairs when needed. This project consists of rehabilitating and improving the primary clarifier pit and surrounding area, including all exposed primary sludge piping, equipment, and electrical.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:
 This project is identified as a high risk because a failure of the solids pumping equipment could result in an upset to the treatment process and a decrease in effectiveness of solids removal within the primaries and downstream processes.

This Project Supports the Following District Goal(s):

Primary Goal: Financial Sustainability **Secondary Goal:** Operational Excellence
Estimated Completion: FY19/20 **Estimated O&M Costs:** To be determined
Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	\$3,238,070
FY19/20 Budget	\$961,930
Future Fiscal Year(s) Budget	
Estimated Total Project Cost	\$4,200,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$961,930					\$961,930
Contingency						
5-Year Total	\$961,930					\$961,930

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Primary Clarifier Nos. 1 - 4 Coating
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

The coatings on the primary clarifier sludge collectors has failed and are not protecting the structures effectively, reducing the useful life of the clarifier mechanisms. This project includes planning, design, and application of new protective coatings for Primary Clarifier Nos. 1 – 4. Design will get underway in FY21/22 with construction to commence in FY22/23 and FY23/24.

Project Results in an Impaired Asset: Yes **R/W Acquisition:** No

Risk Assessment:

This project is identified as a low risk because the corrosion observed on the collectors has not indicated that a failure will occur in the near term, and there is a level of redundancy in the primary clarifier system in the event of a failure.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY23/24 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 10 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$1,400,000
Estimated Total Project Cost	\$1,400,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction			\$400,000	\$500,000	\$500,000	\$1,400,000
Contingency						
5-Year Total			\$400,000	\$500,000	\$500,000	\$1,400,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Pump Station Facilities Repair
Project Number: 80008 **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

This project comprises of comprehensive repair and replacement work that includes, but not limited to, replacing isolation gates, electrical conduits, and ductwork; evaluating ventilation system; and coating of structures at the Antioch Pump Station (17128), Bridgehead Pump Station (17129), Broadway Pump Station (17130), Pittsburg Pump Station (17131), and Shore Acres Pump Station (17132). This project will address safety, reliability, and operational efficiency issues at the existing wastewater pump station and flow equalization facility sites.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is identified as a high risk as many of the items of work are to repair or replace equipment or other assets that have reached the end of their useful life and are critical to the successful operation of these facilities. Other items of work will improve safety for plant staff.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY20/21 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 30 years

Project Budget:

Total Approved Budget thru FY18/19	\$4,726,234
FY19/20 Budget	\$5,773,766
Future Fiscal Year(s) Budget	\$3,500,000
Estimated Total Project Cost	\$14,000,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$5,773,766	\$3,500,000				\$9,273,766
Contingency						
5-Year Total	\$5,773,766	\$3,500,000				\$9,273,766

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan	\$4,000,000	\$2,000,000				\$6,000,000
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Pump Station Grinder Replacements

Project Number: To be assigned **Priority:** 1

Type of Project: Capital Asset Replacement **Lead Department:** Resource Recovery Services

Description/Justification:

Wastewater grinder manufacturers recommend replacement of the grinders every 12 months. This has been exceeded for the grinders at the Pittsburg Pump Station (GDR2402), Bridgehead Pump Station (GDR612) and Shore Acres Pump Station (GDR 1202) and there are indications that the grinders are not effective in breaking down materials that pass through them causing pump ragging issues. This project is for the replacement of these three grinders.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a high risk project because effective grinding of materials that are found in wastewater flows coming into the pump stations, prevents damage to the conveyance system pumps and reduces the maintenance required to remove materials that impair pump operation and/or impair pump components.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 5 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$100,000
Future Fiscal Year(s) Budget	\$300,000
Estimated Total Project Cost	\$400,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$100,000	\$100,000	\$100,000	\$100,000		\$400,000
Contingency						
5-Year Total	\$100,000	\$100,000	\$100,000	\$100,000		\$400,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Resource Recovery Facility Master Plan
Project Number: 18120 **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

This project includes identification and evaluation of key long-term strategic planning issues associated with the District's Resource Recovery Facility (i.e., the Wastewater Treatment Plant and Recycled Water Facility (RWF). Significant focus areas would include investigating biogas utilization options for the East County Bioenergy Project, assessing plant expansion and upgrade needs to meet future nutrient management regulatory requirements, evaluating long-term RWF operating scenarios and costs, identifying potential treatment process regulatory compliance vulnerabilities and enhanced process monitoring and control tools, updating future growth projections, supporting development of the Asset Management Program, evaluating biosolids management options, and developing a prioritized CIP to reflect FCA findings. The project would also include recommendations for additional, more detailed master planning activities in subsequent years for specific focus areas.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a medium risk project. Long-term planning is desirable but not critical to the existing treatment and operation of the plant.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** Financial Sustainability

Estimated Completion: FY20/21 **Estimated O&M Costs:** To be determined

Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	\$200,000
FY19/20 Budget	\$600,000
Future Fiscal Year(s) Budget	\$700,000
Estimated Total Project Cost	\$1,500,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design	\$600,000	\$700,000				\$1,300,000
Construction						
Contingency						
5-Year Total	\$600,000	\$700,000				\$1,300,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
35%	50%		10%			5%		

WW: Wastewater, **CA:** Capital Asset, **CAR:** Capital Asset Replacement, **Exp:** Expansion, **AT:** Advanced Treatment
RW: Recycled Water, **BP CA:** Bay Point Capital Asset Rehabilitation, **HHW:** Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: SCADA Communication Network/PLC Processor Upgrade
Project Number: 18114 **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Resource Recovery Services

Description/Justification:

The SCADA system is the District's automated system for monitoring and reporting the ongoing status of the District's resource recovery operations onsite and remotely. The upgraded communication network, in combination with the planned PLC processor replacements is required to provide improved performance and reliability to the District. This project consists of replacing the Programmable Logic Controllers (PLC) and upgrading the current Supervisory Control and Data Acquisition (SCADA) communication network protocol.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is identified as medium risk as the SCADA and PLC's are currently functional. However, these systems provide critical functionality and control the treatment plant and pumps station equipment and instrumentation. A failure of these systems could result in a loss of automation and/or monitoring of the processes required for successful conveyance and treatment of wastewater.

This Project Supports the Following District Goal(s):

Primary Goal: Financial Sustainability **Secondary Goal:** N/A

Estimated Completion: FY21/22 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 15 years

Project Budget:

Total Approved Budget thru FY18/19	\$646,855
FY19/20 Budget	\$100,000
Future Fiscal Year(s) Budget	\$253,145
Estimated Total Project Cost	\$1,000,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$100,000	\$100,000	\$153,145			\$353,145
Contingency						
5-Year Total	\$100,000	\$100,000	\$153,145			\$353,145

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	90%				10%			

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: SCADA Master Plan Update
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:
 This project will update the 2011 Supervisory Control and Data Acquisition (SCADA) Master Plan to identify potential upgrades, changes, and/or replacements to enhance and increase the reliability of the District's SCADA system.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:
 The District's SCADA system is essential for the operation of District facilities because it performs plant monitoring, alarming, and remote control and its functionality and capabilities should be evaluated periodically. This project is considered low risk because there are no immediate drivers for this analysis.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined

Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$500,000
Estimated Total Project Cost	\$500,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative				\$50,000		\$50,000
Plan/Design				\$450,000		\$450,000
Construction						
Contingency						
5-Year Total				\$500,000		\$500,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	90%				10%			

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Sodium Bisulfite Tank Replacement
Project Number: 13105 **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

The project involves the replacement of two existing chemical storage tanks and chemical feed piping that have reached the end of their service life. The project also allocates funding to assess the condition of the existing Chemical Building Canopy structure to determine what repair and/or replacement work may be necessary to extend its service life.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a medium risk project. Although the existing Sodium Bisulfite Tanks are nearing the end of their useful life, no indication of imminent failure has been detected.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY19/20 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 20 years

Project Budget:

Total Approved Budget thru FY18/19	\$290,443
FY19/20 Budget	\$409,557
Future Fiscal Year(s) Budget	
Estimated Total Project Cost	\$700,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$409,557					\$409,557
Contingency						
5-Year Total	\$409,557					\$409,557

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Tower Mixing Chamber & Overflow Structure Rehabilitation
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

In 2018, the District completed a condition assessment and evaluation of the Tower Mixing Chamber (TMC) and Diversion Overflow Structure (DOS) (including slide gate MSG-1612). These structures are past their useful lives due to corrosion from normal sulfide gases generated in raw sewage. This project will involve planning, design, and construction of the concrete structures and slide gate rehabilitation and replacement work including a major temporary bypass system to allow the District to continue its normal treatment operations.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a high risk project because the failure of these structures will result in significant safety hazards and NPDES permit violations due to flooding and improper treatment.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A
Estimated Completion: FY24/25 **Estimated O&M Costs:** To be determined
Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$1,420,000
Estimated Total Project Cost	\$1,420,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction			\$550,000	\$870,000		\$1,420,000
Contingency						
5-Year Total			\$550,000	\$870,000		\$1,420,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, **CA:** Capital Asset, **CAR:** Capital Asset Replacement, **Exp:** Expansion, **AT:** Advanced Treatment
RW: Recycled Water, **BP CA:** Bay Point Capital Asset Rehabilitation, **HHW:** Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Treatment Plant Electrical Switchgear Replacement
Project Number: 17120 **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

This project will replace the existing switchgear to ensure continuous, reliable power and treatment operations. The switchgear is nearing the end of its useful life and requires timely replacement to ensure reliable electrical power feed for treatment plant operations.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a high risk project. A failure in the main switchgear could cause a loss of power at the treatment plant crippling the treatment process.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY20/21 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 30 years

Project Budget:

Total Approved Budget thru FY18/19	\$2,006,272
FY19/20 Budget	\$1,243,728
Future Fiscal Year(s) Budget	\$1,250,000
Estimated Total Project Cost	\$4,500,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$1,243,728	\$1,250,000				\$2,493,728
Contingency						
5-Year Total	\$1,243,728	\$1,250,000				\$2,493,728

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Treatment Plant Roadway Maintenance Project
Project Number: 18115 **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:
 The treatment plant roadway and parking lot asphalt is showing signs of aging and is in need of rehabilitation. This project will include condition assessment, analysis of current/future traffic patterns and loading, geotechnical engineering recommendations, design, reconstruction of failed areas, improvements to roadway geometry, rehabilitation of the asphalt surface, and striping.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:
 This project is considered low risk because the existing roadway surfaces are currently functional. Although some areas show signs of failure, the repairs to these areas can be deferred for some time.

This Project Supports the Following District Goal(s):

Primary Goal: Financial Sustainability **Secondary Goal:** Operational Excellence
Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined
Estimated Useful Life: 15 years

Project Budget:

Total Approved Budget thru FY18/19	\$248,972
FY19/20 Budget	\$40,000
Future Fiscal Year(s) Budget	\$1,461,028
Estimated Total Project Cost	\$1,750,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$40,000			\$1,461,028		\$1,501,028
Contingency						
5-Year Total	\$40,000			\$1,461,028		\$1,501,028

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Triangle Pump Station Replacement
Project Number: 19111 **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

The project includes planning, design, and construction of a new pump station to replace the triangle pump station. The triangle pump station was originally constructed in 1964 and has deteriorated to a point that it cannot be maintained or upgraded. This project will replace the metal shed “building” with a new secure structure, replace the pumps, pump controls, SCADA, electrical, rehabilitate the wet well, and improve the site and fencing surrounding the building.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is considered medium risk because the existing systems are functional and most are in fair condition. However, many of the components have reached the end of their useful life and require replacement.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY19/20 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 30 years

Project Budget:

Total Approved Budget thru FY18/19	\$200,000
FY19/20 Budget	\$300,000
Future Fiscal Year(s) Budget	
Estimated Total Project Cost	\$500,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$300,000					\$300,000
Contingency						
5-Year Total	\$300,000					\$300,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Unanticipated WW Treatment & Conveyance Infrastructure Repairs
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Resource Recovery Services

Description/Justification:
 The Unanticipated Replacement Project will allow the repair/replacement/improvement of treatment plant equipment that is not functioning properly, or has early service life failure during the course of a particular fiscal year.

Project Results in an Impaired Asset: TBD **R/W Acquisition:** No

Risk Assessment:
 This programmatic project is necessary to ensure that repairs or replacement equipment is available when needed and that discretionary funds are available.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** Financial Sustainability
Estimated Completion: Programmatic **Estimated O&M Costs:** To be determined
Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$200,000
Future Fiscal Year(s) Budget	\$800,000
Estimated Total Project Cost	\$1,000,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000
Contingency						
5-Year Total	\$200,000	\$200,000	\$200,000	\$200,000	\$200,000	\$1,000,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Biosolids Management Master Plan
Project Number: To be assigned **Priority:** 2
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:
 This project will establish long-term strategies for the disposal, distribution, and potential marketing of the District's biosolids to ensure strict compliance with future regulatory requirements.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:
 This project is considered low risk. There is no pending regulatory requirements that would require immediate changes to the District's existing biosolids management practices. The recommendations of the Resource Recovery Facility Master Plan will drive this project.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** Financial Sustainability

Estimated Completion: FY24/25 **Estimated O&M Costs:** To be determined
Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$400,000
Estimated Total Project Cost	\$400,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design					\$400,000	\$400,000
Construction						
Contingency						
5-Year Total					\$400,000	\$400,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Electrical System Master Plan
Project Number: To be assigned **Priority:** 2
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:
 This project will evaluate the District's current and future electrical requirements and provide guidelines for planning the electric distribution system to serve the District in a reliable manner and potentially export power to nearby utilities.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:
 This project is considered low risk. The existing electric distribution system is adequate for the next 5 to 10 years. The recommendations of the Resource Recovery Facility Master Plan will drive this project.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** Financial Sustainability
Estimated Completion: FY24/25 **Estimated O&M Costs:** To be determined
Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$300,000
Estimated Total Project Cost	\$300,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design				\$300,000		\$300,000
Construction						
Contingency						
5-Year Total				\$300,000		\$300,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Emergency Retention Basin Improvements
Project Number: 19110 **Priority:** 2
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

Assess alternatives to manage the maintenance flows that routinely enter the Emergency Retention Basin (ERB). The ERB experiences daily flows from various maintenance and operational activities. These flows result in increased vegetation inside the ERB. This evaluation will look at alternatives on how to better manage these types of flows, optimize the available storage volume, and reduce the vegetation growth within the basin.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a low risk project. The ERB capacity is currently maintained through periodic vegetation removal and excavation of deposited sediment. However, improvements can significantly reduced the workload and costs associated with the maintenance of the ERB.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined

Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$50,000
Future Fiscal Year(s) Budget	\$850,000
Estimated Total Project Cost	\$900,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$50,000	\$50,000	\$50,000	\$750,000		\$900,000
Contingency						
5-Year Total	\$50,000	\$50,000	\$50,000	\$750,000		\$900,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: ERB Pump Rebuilds
Project Number: To be assigned **Priority:** 2
Type of Project: Capital Asset Replacement **Lead Department:** Resource Recovery Services

Description/Justification:

The return pumps that move water from the Emergency Retention Basin to the plant Headworks for treatment have shown signs of excessive wear and have been in operation past their service life. This project is to remove, inspect, and rebuild the pumps, including their oiling systems, to extend their useful life.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a medium risk project because the pumps are currently functional but require preventative maintenance to extend their useful life and improve their efficiency.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY22/23 **Estimated O&M Costs:** \$21,600

Estimated Useful Life: 5 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$231,000
Estimated Total Project Cost	\$231,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction		\$77,000	\$77,000	\$77,000		\$231,000
Contingency						
5-Year Total		\$77,000	\$77,000	\$77,000		\$231,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: PFM 2401 Dresser Coupler Removal
Project Number: To be assigned **Priority:** 2
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

This project will remove a dresser coupler from Pittsburg Force Main 2401 (PFM 2401) that was discovered during the recent installation of Pittsburg Force Main 2402. Dresser couplers are prone to corrosion, creating a vulnerability in PFM 2401. In addition, the dresser coupling is causing a break in the continuity of the cathodic protection circuit. Removing the dresser coupler and replacing it with a welded-in, cement-lined, and coated steel pipe, will restore the cathodic protection continuity and improve the reliability of the force main.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a medium risk project because the new Pittsburg Force Main provides redundancy and a failure of the coupler would not exclusively prevent operation of the conveyance system. However, a failure of the coupler during operation of PFM 2401 could create a sanitary sewer overflow.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** Financial Sustainability

Estimated Completion: FY20/21 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 30 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$250,000
Estimated Total Project Cost	\$250,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction		\$250,000				\$250,000
Contingency						
5-Year Total		\$250,000				\$250,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: RAS Pump Rehabilitation
Project Number: To be assigned **Priority:** 2
Type of Project: Capital Asset Replacement **Lead Department:** Resource Recovery Services

Description/Justification:
 This project includes planning, design, and construction of rehabilitation and replacement measures for the Return Activated Sludge (RAS) Pumps. The work consists of replacing worn lower bearings, replacing failed coatings, and repairing concrete and grout. The RAS Pumps are the only mechanism for conveying needed RAS to the aeration basins to ensure crucial biological treatment. RAS pump failures will impair the District’s biological treatment and lead to a catastrophic plant failure.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:
 This is a medium risk project. The pumps are currently in fair condition but will need rehabilitation in the near future.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 15 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$300,000
Estimated Total Project Cost	\$300,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction				\$300,000		\$300,000
Contingency						
5-Year Total				\$300,000		\$300,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Sewer Permit Software Replacement
Project Number: 18107 **Priority:** 2
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

This project will evaluate and replace the existing Paradox sewer permit software with a software that will be compatible with Munis to meet District needs.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This is a high risk project. The existing software is a legacy system with a vendor who no longer supports it. This project is needed to ensure functionality and data integrity.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** Workplace Innovation
Estimated Completion: FY19/20 **Estimated O&M Costs:** To be determined
Estimated Useful Life: 10 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$50,000
Future Fiscal Year(s) Budget	
Estimated Total Project Cost	\$50,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative	\$50,000					\$50,000
Plan/Design						
Construction						
Contingency						
5-Year Total	\$50,000					\$50,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Vehicle Replacements

Project Number: To be assigned

Priority: 2

Type of Project: Capital Asset Replacement

Lead Department: Resource Recovery Services

Description/Justification:

An increase in needed repairs for both function and safety, along with the age of the vehicles, are contributing to excessive expenses to maintain vehicles in the fleet. This project is for the replacement of Vehicle 40, 47, 56, 57, and 65.

Project Results in an Impaired Asset: Yes

R/W Acquisition: No

Risk Assessment:

This is a low priority project because these vehicles are operational and maintainable, but cost to keep them safe and running is becoming excessive.

This Project Supports the Following District Goal(s):

Primary Goal: Financial Sustainability

Secondary Goal: Operational Excellence

Estimated Completion: FY20/21

Estimated O&M Costs: To be determined

Estimated Useful Life: 10 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$645,000
Future Fiscal Year(s) Budget	\$400,000
Estimated Total Project Cost	\$1,045,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative	\$645,000	\$400,000				\$1,045,000
Plan/Design						
Construction						
Contingency						
5-Year Total	\$645,000	\$400,000				\$1,045,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	100%							

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

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Table 6
Delta Diablo
Five Year Capital Improvement Program
FY19/20 - FY23/24
Wastewater Expansion Fund Project Budget

Page	Project Name	Project No.	Priority	Approved Budget thru FY18/19	Anticipated Budgets						Estimated Total Project Cost
					FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	Estimated Total Project Cost	
E-3	Bridgehead Phase IV Expansion - Force Main Completion	10178	3						\$700,000	\$3,300,000	\$4,000,000
				Estimated Total Project Cost					\$700,000	\$3,300,000	\$4,000,000

Table 7
Delta Diablo
Five Year Capital Improvement Program
FY19/20 - FY23/24
Wastewater Expansion Fund Summary

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Budgets						
Project Budgets				\$700,000	\$3,300,000	\$4,000,000
SRF Debt Service - Pittsburg Force Main Imp Project	\$127,674	\$127,660	\$127,646	\$127,632	\$127,617	\$638,229
Loan Payment to CA Fund	\$900,000					\$900,000
Loan Payment to CAR Fund	\$1,000,000	\$900,000	\$800,000	\$800,000	\$800,000	\$4,300,000
5-Year Total Budget	\$2,027,674	\$1,027,660	\$927,646	\$1,627,632	\$4,227,617	\$9,838,229
Revenues						
Sewer Service Charges						
Capital Facilities Capacity Charges (CFCC)	\$1,840,000	\$1,840,000	\$1,840,000	\$1,840,000	\$1,840,000	\$9,360,000
Interest Earnings	\$9,438	\$6,765	\$19,051	\$33,022	\$36,703	\$102,979
Total Revenue	\$1,849,438	\$1,846,765	\$1,859,051	\$1,873,022	\$1,876,703	\$9,360,000
Starting Fund Balance						
	\$629,222	\$450,986	\$1,270,091	\$2,201,496	\$2,446,886	\$7,000,000
Total Revenue	\$1,849,438	\$1,846,765	\$1,859,051	\$1,873,022	\$1,876,703	\$9,360,000
Total Budgets	(\$2,027,674)	(\$1,027,660)	(\$927,646)	(\$1,627,632)	(\$4,227,617)	(\$9,838,229)
Fund Balance	\$450,986	\$1,270,091	\$2,201,496	\$2,446,886	\$95,972	\$9,360,000

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Bridgehead Phase IV Expansion - Force Main Completion
Project Number: 10178 **Priority:** 3
Type of Project: Expansion **Lead Department:** Engineering Services

Description/Justification:

This project extends the 24-inch force main to Fulton Shipyard Road to provide a complete Bridgehead system capable to meet buildout conditions of 11.75 mgd as projected in the Bridgehead Facilities Plan prepared by Raines, Melton, and Carella dated November 2002 and in the 2010 Conveyance System Master Plan. The planning phase will evaluate alternative pipeline alignments and refine the design and construction cost estimate.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is low risk as the current projections for buildout conditions, which trigger the need for this project, are outside of this five year CIP cycle. However, planning for this project is prudent as changing economic conditions could accelerate the timeline.

This Project Supports the Following District Goal(s):

Primary Goal: Financial Sustainability **Secondary Goal:** N/A

Estimated Completion: FY23/24 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 40 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$4,000,000
Estimated Total Project Cost	\$4,000,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative					\$300,000	\$300,000
Plan/Design				\$700,000		\$700,000
Construction					\$3,000,000	\$3,000,000
Contingency						
5-Year Total				\$700,000	\$3,300,000	\$4,000,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
		100%						

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

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Table 8
Delta Diablo
Five Year Capital Improvement Program
FY19/20 - FY23/24
Advanced Treatment Fund Project Budget

Page	Project Name	Project No.	Priority	Approved Budget thru FY 2019/20	Anticipated Budgets						Estimated Total Project Cost
					FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	Estimated Total Project Cost	
AT-3	Nutrient Technology Research and Innovation	17123	1	\$100,000				\$250,000	\$250,000	\$600,000	
AT-4	Tower Tricking Filters Improvements	TBA	1					\$2,000,000	\$4,000,000	\$6,000,000	
Estimated Total Project Cost								\$2,250,000	\$4,250,000	\$6,600,000	

Table 9
 Delta Diablo
 Five Year Capital Improvement Program
 FY19/20 - FY23/24
Advanced Treatment Fund Summary

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Budgets						
Project Budgets	\$60,000	\$2,570,000	\$1,809,106	\$400,000	\$250,000	\$5,089,106
5-Year Total Budget	\$60,000	\$2,570,000	\$1,809,106	\$400,000	\$250,000	\$5,089,106
Revenues						
Sewer Service Charges	\$4,305,321	\$4,305,321	\$4,305,321	\$4,305,321	\$4,305,321	\$4,305,321
Interest Earnings	\$273,131	\$279,669	\$309,894	\$351,985	\$415,845	\$415,845
Inter-fund Loan to WW CAR	(\$4,000,000)					
Total Revenue	\$578,452	\$4,584,990	\$4,615,215	\$4,657,306	\$4,721,166	
Starting Fund Balance						
	\$18,126,138	\$18,644,590	\$20,659,580	\$23,465,689	\$27,722,995	\$27,722,995
Total Revenue	\$578,452	\$4,584,990	\$4,615,215	\$4,657,306	\$4,721,166	\$4,721,166
Total Budgets	(\$60,000)	(\$2,570,000)	(\$1,809,106)	(\$400,000)	(\$250,000)	(\$250,000)
Fund Balance	\$18,644,590	\$20,659,580	\$23,465,689	\$27,722,995	\$32,194,161	

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Nutrient Technology Research and Innovation
Project Number: 17123 **Priority:** 1
Type of Project: Advanced Treatment **Lead Department:** Engineering Services

Description/Justification:

This project will allow the District to explore various nutrient removal technologies and options through studies, pilot testing, and collaboration. The District may participate in various regional activities related to nutrients, with particular emphasis on developing emerging and innovative technologies for treatment.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is low risk because the current regulatory requirements do not necessitate that nutrient removal be added to our processes. The Resource Recovery Facility Master Plan may recommend technologies to be researched.

This Project Supports the Following District Goal(s):

Primary Goal: Workplace Innovation **Secondary Goal:** Leadership
Estimated Completion: FY24/25 **Estimated O&M Costs:** To be determined
Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	\$100,000
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$500,000
Estimated Total Project Cost	\$600,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design				\$250,000	\$250,000	\$500,000
Construction						
Contingency						
5-Year Total				\$250,000	\$250,000	\$500,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
			100%					

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Tower Trickling Filters Improvements
Project Number: To be assigned **Priority:** 1
Type of Project: Advanced Treatment **Lead Department:** Engineering Services

Description/Justification:

The District's tower trickling filters (TTFs) were part of the original plant construction in the early 1980s, making the TTFs nearly 40 years old. The TTFs have exhibited internal and external corrosion and the media has been identified for replacement. This facility is critical to the secondary treatment process. The District will evaluate the best approach to TTF infrastructure investment as part of the Resource Recovery Facility Master Plan (RRFMP). The proposed budget allows for planning/design and rehabilitation/construction of the TTFs. Planning/design is anticipated to get underway in FY22/23 with construction to commence in FY23/24.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

The TTFs are critical to the District's secondary treatment and compliance with its effluent discharge permit requirement. Failure of the facility could result in permit violation and impacting public health.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** Workplace Innovation

Estimated Completion: FY 26/27 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 40 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$6,000,000
Estimated Total Project Cost	\$6,000,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design				\$2,000,000		\$2,000,000
Construction					\$4,000,000	\$4,000,000
Contingency						
5-Year Total				\$2,000,000	\$4,000,000	\$6,000,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	50%		50%					

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Existing Combined Project #2

Project Number: To be assigned

Priority: 3

Type of Project: Capital Asset

Lead Department: Engineering Services

Description/Justification:

This project consists of planning, including best replacement/rehabilitation alternatives, design, and construction of the identified processes at the RWF. The identified processes include the Influent Pump Station Improvements, Power Plant Blowdown Re-routing, Process Drain Line Modifications, and FEB Diversion Gate & Control Replacement. Planning and design is anticipated to start in FY22/23 with construction to commence in FY23/24.

Project Results in an Impaired Asset: No

R/W Acquisition: No

Risk Assessment:

This project is considered medium risk. The identified work will facilitate maintenance of the RWF but it is not critical to the immediate needs of the facility as these existing components are functional.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence

Secondary Goal: Financial Sustainability

Estimated Completion: FY24/25

Estimated O&M Costs: To be determined

Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$1,100,000
Estimated Total Project Cost	\$1,100,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction				\$250,000	\$850,000	\$1,100,000
Contingency						
5-Year Total				\$250,000	\$850,000	\$1,100,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
				100%				

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Recycled Water Master Plan Update
Project Number: To be assigned **Priority:** 3
Type of Project: Capital Asset **Lead Department:** Engineering Services

Description/Justification:

This project will update the 2012 Recycled Water Master Plan to evaluate near-term and buildout projects to expand the District's recycled water system. The project will permit the District to plan for future needs and provide recycled water to all customers, under all conditions.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

The District should regularly conduct master planning activities to assess potential risks associated with infrastructure management, regulatory changes, and capacity restrictions. This project is considered low risk because there are no immediate drivers to alter the recycled water facility and distribution system.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 5 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$300,000
Estimated Total Project Cost	\$300,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design				\$300,000		\$300,000
Construction						
Contingency						
5-Year Total				\$300,000		\$300,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
			50%	50%				

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Small Recycled Water Facility Capital Asset Project
Project Number: 19103 **Priority:** 3
Type of Project: Capital Asset **Lead Department:** Engineering Services

Description/Justification:

The Small Recycled Water Facility Capital Asset Project will allow the implementation of the District's Recycled Water Facility (RWF) improvements which are identified during the course of a particular fiscal year, but not included as a separate line item in the Recycled Water Capital Asset Fund budget.

Project Results in an Impaired Asset: TBD **R/W Acquisition:** No

Risk Assessment:

Depending on the specific improvement identified, they could hold a high, medium, or low risk.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: Programmatic **Estimated O&M Costs:** To be determined

Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$50,000
Future Fiscal Year(s) Budget	\$200,000
Estimated Total Project Cost	\$250,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Contingency						
5-Year Total	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
				100%				

WW: Wastewater, **CA:** Capital Asset, **CAR:** Capital Asset Replacement, **Exp:** Expansion, **AT:** Advanced Treatment
RW: Recycled Water, **BP CA:** Bay Point Capital Asset Rehabilitation, **HHW:** Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Treatment Plant Flow Equalization Improvements - Emergency Storage Basin
Project Number: To be assigned **Priority:** 3
Type of Project: Capital Asset **Lead Department:** Engineering Services

Description/Justification:

Install sump pumps on a float-control system in the Emergency Storage Basin (ESB) at the District's Wastewater Treatment Plant to allow for automatic draining of the ESB after use.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is low risk as the ESB is currently configured to be manually drained. An automated system will reduce staff time required to monitor and operate the manually controlled drain pumps.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY22/23 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 5 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$125,000
Estimated Total Project Cost	\$125,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction				\$125,000		\$125,000
Contingency						
5-Year Total				\$125,000		\$125,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
				100%				

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Table 13
Delta Diablo
Five Year Capital Improvement Program
FY19/20 - FY 23/24
Recycled Water Capital Asset Replacement Fund Summary

	FY19/20	FY20/21	FY21/22	FY22/23	FY 23/24	5-Year Total
Budgets						
Project Budgets	\$185,000	\$60,000	\$65,315	\$800,000	\$1,482,000	\$2,592,315
5-Year Total Budget	\$185,000	\$60,000	\$65,315	\$800,000	\$1,482,000	\$2,592,315
Revenues						
Sewer Service Charges	\$144,000	\$209,000	\$304,000	\$439,000	\$619,000	
Interest Earnings	\$8,825	\$8,503	\$10,079	\$12,566	\$9,082	
Total Revenue	\$152,825	\$217,503	\$314,079	\$451,566	\$628,082	
Starting Fund Balance						
Starting Fund Balance	\$882,524	\$850,349	\$1,007,852	\$1,256,616	\$908,182	
Total Revenue	\$152,825	\$217,503	\$314,079	\$451,566	\$628,082	
Total Budgets	(\$185,000)	(\$60,000)	(\$65,315)	(\$800,000)	(\$1,482,000)	
Fund Balance	\$850,349	\$1,007,852	\$1,256,616	\$908,182	\$54,264	

Delta Diablo
 FY19/20 - FY 23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Existing Combined Project #1
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

This project consists of planning, design, and construction of various components at the RWF. The work to be performed under this project will include the RWF Backwash Valve Installation, RWF DEC Drain Valve Automation, RWF Polymer Blending Unit Replacement, RWF Sand Filter Backwash Optimization, RWF CCT Influent Valves and Lamella Tube Replacement. Planning and design are anticipated to begin in FY22/23 with construction to commence in FY23/24.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is considered low risk. These existing components are functional. Repair and/or replacement of these existing components will facilitate long-term maintenance.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY 24/25 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$600,000
Estimated Total Project Cost	\$600,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction				\$225,000	\$375,000	\$600,000
Contingency						
5-Year Total				\$225,000	\$375,000	\$600,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
					100%			

WW: Wastewater, **CA:** Capital Asset, **CAR:** Capital Asset Replacement, **Exp:** Expansion, **AT:** Advanced Treatment
RW: Recycled Water, **BP CA:** Bay Point Capital Asset Rehabilitation, **HHW:** Household Hazardous Waste

Delta Diablo
 FY19/20 - FY 23/24 Capital Improvement Program
Capital Project Sheet

Project Name: DEC Storage Tank Rehabilitation
Project Number: To be assigned **Priority:** 2
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

This project consists of evaluating coating options and recoating of the Delta Energy Center (DEC) storage tank exterior and interior. This includes looking at the existing interior coating and evaluating options for a more resilient coating, to handle the corrosive environment within the tanks interior head space. Past inspections have shown a significant amount of corrosion in the head space of the storage tank as well as the beginnings of exterior corrosion. This corrosion has the potential to compromise the integrity of the tank if not addressed.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is medium risk as no significant structural defects to the tank have been identified to date, however, routine evaluations and rehabilitation work are required to maintain the tank's optimal service life.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY 24/25 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$1,000,000
Estimated Total Project Cost	\$1,000,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction				\$250,000	\$750,000	\$1,000,000
Contingency						
5-Year Total				\$250,000	\$750,000	\$1,000,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
					100%			

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY 23/24 Capital Improvement Program
Capital Project Sheet

Project Name: New Combined Project #1
Project Number: To be assigned **Priority:** 2
Type of Project: Capital Asset Replacement **Lead Department:** Resource Recovery Services

Description/Justification:

This project consists of an assessment of alternatives and implementation of improvements at the RWF. The work to be performed under this project will include the Microsand System Rehabilitation, RWF Sand Filter Media Replacement, and RWF Filter Cover Improvements Phase II. Planning and design are anticipated to begin in FY22/23 with construction to commence in FY23/24.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is considered low risk. These existing components are functional. Repair and/or replacement of these existing components will facilitate long-term maintenance.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** Financial Sustainability
Estimated Completion: FY 24/25 **Estimated O&M Costs:** To be determined
Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$75,000
Future Fiscal Year(s) Budget	\$1,082,000
Estimated Total Project Cost	\$1,157,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$75,000			\$500,000	\$582,000	\$1,157,000
Contingency						
5-Year Total	\$75,000			\$500,000	\$582,000	\$1,157,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
					100%			

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY 23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Recycled Water Distribution System Improvements
Project Number: 19114 **Priority:** 3
Type of Project: Capital Asset Replacement **Lead Department:** Engineering Services

Description/Justification:

The project includes, planning, design, and construction of new flow control valves at Delta View Golf Course (DVGC) and Lone Tree Golf Course (LTGC) with SCADA logic/communications to monitor and control flows through the recycled water distribution system. The District currently does not have any monitoring/alarming or control capabilities at DVGC, and no control capabilities at LTGC. This results in time-intensive and energy inefficient operations. These improvements will result in needed system reliability and optimum use of recycled water resources.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is a low priority as these improvements to the recycled water distribution system are to optimize and automate some of the components that are currently functional.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY 23/24 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 50 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$500,000
Estimated Total Project Cost	\$500,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction					\$500,000	\$500,000
Contingency						
5-Year Total					\$500,000	\$500,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
					100%			

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY 23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Unanticipated Recycled Water Infrastructure Repairs
Project Number: 19104 **Priority:** 3
Type of Project: Capital Asset Replacement **Lead Department:** Resource Recovery Services

Description/Justification:

The Unanticipated Recycled Water Infrastructure Repairs Project allows for the repair and/or replacement of major equipment that is not functioning properly or has failed prematurely during the course of a particular fiscal year. A budget for unanticipated replacement projects is necessary to ensure that funds for the repair or replacement of equipment are available when needed. These available funds would be used only upon the authorization and approval of the General Manager. A new appropriation is established each fiscal year.

Project Results in an Impaired Asset: TBD **R/W Acquisition:** No

Risk Assessment:

Depending on the specific improvement identified, they could hold a high, medium, or low risk.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: Programmatic **Estimated O&M Costs:** To be determined

Estimated Useful Life: 15 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$100,000
Future Fiscal Year(s) Budget	\$150,000
Estimated Total Project Cost	\$250,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$100,000	\$50,000	\$50,000	\$25,000	\$25,000	\$250,000
Contingency						
5-Year Total	\$100,000	\$50,000	\$50,000	\$25,000	\$25,000	\$250,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
					100%			

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

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Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Recycled Water Distribution System Expansion
Project Number: 18110 **Priority:** 3
Type of Project: Expansion **Lead Department:** Engineering Services

Description/Justification:

This project consists of designing and installing recycled water service lines for new customers. New service lines are required to provide recycled water to new users. Costs for these facilities will be fully funded by the new customers receiving service.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is low risk because this work has no significant impact on the functionality or operation of the existing distribution system. New customers will only be added if their use fits within the existing capabilities of the recycled water system.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY23/24 **Estimated O&M Costs:** To be determined

Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	
Future Fiscal Year(s) Budget	\$150,000
Estimated Total Project Cost	\$150,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction					\$150,000	\$150,000
Contingency						
5-Year Total					\$150,000	\$150,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
						100%		

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

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Table 16
 Delta Diablo
 Five Year Capital Improvement Program
 FY19/20 - FY23/24
Bay Point Capital Asset Rehabilitation Fund Project Budget

Page	Project Name	Project No.	Priority	Approved Budget thru FY18/19	Anticipated Budgets					Estimated Total Project Cost	
					FY19/20	FY20/21	FY21/22	FY22/23	FY23/24		
BP-3	Bay Point Overlay Manhole Adjustments	TBA	1	\$250,000						\$250,000	
BP-4	Bay Point Rehabilitation Phase IV	18119	1	\$4,051,527	\$1,250,000					\$6,100,000	
BP-5	Facility Condition Assessment	18121	1	\$617,048						\$1,300,000	
BP-6	River Watch Settlement Compliance	TBA	1	\$670,000	\$720,000					\$1,390,000	
BP-7	Unanticipated Bay Point Repairs	TBA	2	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000		\$500,000	
Estimated Total Project Cost					\$5,754,479	\$2,070,000	\$100,000	\$100,000	\$100,000	\$100,000	\$9,540,000

Table 17

Delta Diablo
Five Year Capital Improvement Program
FY19/20 - FY23/24

Bay Point Capital Asset Rehabilitation Fund Summary

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Budgets						
Project Budgets	\$5,188,946	\$1,721,000	\$75,000	\$75,000	\$75,000	\$7,134,946
SRF Loan Debt Service, Sewer Pipeline Repair Rehab Ph 1	\$51,372	\$51,367	\$51,361	\$51,355	\$51,349	\$256,804
SRF Loan Debt Service, Sewer Pipeline Repair Rehab Ph 3	\$90,255	\$90,245	\$90,235	\$90,225	\$90,214	\$451,174
SRF Loan Debt Service, Sewer Pipeline Repair Rehab Ph 4		\$151,477	\$151,477	\$151,477	\$151,477	\$605,908
5-Year Total Budget	\$5,330,573	\$2,014,089	\$368,073	\$368,057	\$368,040	\$8,448,832
Revenues						
Sewer Service Charges	\$360,468	\$371,282	\$382,421	\$391,981	\$399,821	
Interest Earnings	\$54,820	\$36,216	\$12,117	\$12,514	\$13,061	
Loan Proceeds, Bay Point Rehab Phase IV	\$3,675,000					
Total Revenue	\$4,090,288	\$407,498	\$394,538	\$404,495	\$412,882	
Starting Fund Balance						
Starting Fund Balance	\$3,654,697	\$2,414,412	\$807,821	\$834,286	\$870,724	
Total Revenue	\$4,090,288	\$407,498	\$394,538	\$404,495	\$412,882	
Total Budgets	(\$5,330,573)	(\$2,014,089)	(\$368,073)	(\$368,057)	(\$368,040)	
Fund Balance	\$2,414,412	\$807,821	\$834,286	\$870,724	\$915,566	

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Bay Point Overlay Manhole Adjustments
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset **Lead Department:** Engineering Services

Description/Justification:

In coordination with the County's roadway rehabilitation work, the District's manhole frames/covers are required to be adjusted to match the new roadway surface elevation. This project includes bidding and construction work to adjust the manholes that are identified within the roadways to be improved.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is high risk because adjusting the manhole covers will ensure continued access for maintenance of the collection system and also prevent hazardous road conditions.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: FY19/20 **Estimated O&M Costs:** To be determined

Estimated Useful Life: 30 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$250,000
Future Fiscal Year(s) Budget	
Estimated Total Project Cost	\$250,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$250,000					\$250,000
Contingency						
5-Year Total	\$250,000					\$250,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
							100%	

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Bay Point Rehabilitation Phase IV

Project Number: 18119

Priority: 1

Type of Project: Capital Asset

Lead Department: Engineering Services

Description/Justification:

This project includes rehabilitation of existing sewer lines in the community of Bay Point. Existing defects include severe offset pipe joints, sags, circular cracks, protruding service connections, poor channeling, etc. Defects increase infiltration into the sewers and/or flow bottlenecks. Repairs will consist of grouting of joints and service laterals, pipeline relining or complete replacement. The criteria utilized in prioritizing the repairs were location in the system, number of repairs, and severity of obstructions.

Project Results in an Impaired Asset: No

R/W Acquisition: No

Risk Assessment:

This project is high risk as many of the defects that are identified to be repaired could result in sanitary sewer overflows or performance issues if left unrepaired and allowed to worsen.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence

Secondary Goal: N/A

Estimated Completion: FY20/21

Estimated O&M Costs: To be determined

Estimated Useful Life: 40 years

Project Budget:

Total Approved Budget thru FY18/19	\$798,473
FY19/20 Budget	\$4,051,527
Future Fiscal Year(s) Budget	\$1,250,000
Estimated Total Project Cost	\$6,100,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$4,051,527	\$1,250,000				\$5,301,527
Contingency						
5-Year Total	\$4,051,527	\$1,250,000				\$5,301,527

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
							100%	

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Facility Condition Assessment

Project Number: 18121

Priority: 1

Type of Project: Capital Asset

Lead Department: Engineering Services

Description/Justification:

This project will assess the condition of the District's assets, identify the remaining life of the assets, and assess the likelihood and consequence of failure. The condition assessment work will document the state of the District's critical infrastructure assets, identify the most significant vulnerabilities, and prioritize required capital improvement projects.

Project Results in an Impaired Asset: TBD

R/W Acquisition: No

Risk Assessment:

This is a high risk project. Many of the existing treatment plant treatment and utility systems and the District Conveyance systems are not easily accessible and have not been inspected or rehabilitated since their construction. Recent failures have indicated that there is a potential that other portions of these systems are in need of replacement or rehabilitation.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence

Secondary Goal: Financial Sustainability

Estimated Completion: FY19/20

Estimated O&M Costs: To be determined

Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	\$617,048
FY19/20 Budget	\$682,952
Future Fiscal Year(s) Budget	
Estimated Total Project Cost	\$1,300,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design	\$682,952					\$682,952
Construction						
Contingency						
5-Year Total	\$682,952					\$682,952

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
			35%				65%	

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: River Watch Settlement Compliance
Project Number: To be assigned **Priority:** 1
Type of Project: Capital Asset **Lead Department:** Engineering Services

Description/Justification:

The District executed the *Settlement Agreement and Mutual Release of Claims* agreement with the Northern California River Watch on June 13, 2013, and agreed to complete Condition Assessment of all gravity sewer lines within 8 years of the contract date (June 13, 2021). This project will involve planning, CCTV inspection, evaluation and scoring of gravity lines, and mapping of the findings. Any pipelines found deficient will be addressed in a separate rehabilitation project – timing dependent on the deficiency.

Project Results in an Impaired Asset: No **R/W Acquisition:** No

Risk Assessment:

This project is high risk as the remaining work required to comply with the terms of the settlement agreement must be completed by June 13, 2021.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** Financial Sustainability
Estimated Completion: FY20/21 **Estimated O&M Costs:** To be determined
Estimated Useful Life: 40 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$670,000
Future Fiscal Year(s) Budget	\$720,000
Estimated Total Project Cost	\$1,390,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative	\$670,000	\$720,000				\$1,390,000
Plan/Design						
Construction						
Contingency						
5-Year Total	\$670,000	\$720,000				\$1,390,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	45%						55%	

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Unanticipated Bay Point Repairs
Project Number: To be assigned **Priority:** 2
Type of Project: Capital Asset **Lead Department:** Engineering Services

Description/Justification:

Renewal/replacement of smaller, high-priority collections system improvements that cannot wait two to three years to be included in the consolidated rehabilitation project. Typical improvements include spot repairs, installation of individual manholes, and raising manhole covers for County paving projects in Bay Point.

Project Results in an Impaired Asset: TBD **R/W Acquisition:** No

Risk Assessment:

Depending on the specific improvement identified, they could hold a high, medium, or low risk. However, these improvements will typically hold a high to medium risk for the work done.

This Project Supports the Following District Goal(s):

Primary Goal: Operational Excellence **Secondary Goal:** N/A

Estimated Completion: Programmatic **Estimated O&M Costs:** To be determined

Estimated Useful Life: 25 years

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$100,000
Future Fiscal Year(s) Budget	\$400,000
Estimated Total Project Cost	\$500,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Contingency						
5-Year Total	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
	25%						75%	

WW: Wastewater, **CA:** Capital Asset, **CAR:** Capital Asset Replacement, **Exp:** Expansion, **AT:** Advanced Treatment
RW: Recycled Water, **BP CA:** Bay Point Capital Asset Rehabilitation, **HHW:** Household Hazardous Waste

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Delta Diablo
 FY19/20 - FY23/24 Capital Improvement Program
Capital Project Sheet

Project Name: Household Hazardous Waste Improvements
Project Number: 18105 **Priority:** 3
Type of Project: Household Hazardous Waste **Lead Department:** Engineering Services

Description/Justification:

This project provides funding for minor projects that are identified after the completion of the new permanent Household Hazardous Waste Facility. These funds would be used to add small equipment or operating assets to the new facility.

Project Results in an Impaired Asset: TBD **R/W Acquisition:** No

Risk Assessment:

Depending on the specific improvement identified, they could hold a high, medium, or low risk.

This Project Supports the Following District Goal(s):

Primary Goal: Financial Sustainability **Secondary Goal:** Operational Excellence
Estimated Completion: Programmatic **Estimated O&M Costs:** To be determined
Estimated Useful Life: To be determined

Project Budget:

Total Approved Budget thru FY18/19	
FY19/20 Budget	\$25,000
Future Fiscal Year(s) Budget	\$375,000
Estimated Total Project Cost	\$400,000

Anticipated Project Budget Schedule:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Administrative						
Plan/Design						
Construction	\$25,000	\$25,000	\$25,000	\$25,000	\$300,000	\$400,000
Contingency						
5-Year Total	\$25,000	\$25,000	\$25,000	\$25,000	\$300,000	\$400,000

Outside Funding:

	FY19/20	FY20/21	FY21/22	FY22/23	FY23/24	5-Year Total
Grant						
Loan						
Other						

Distribution of Costs by Fund:

WW CA	WW CAR	WW Exp	AT	RW CA	RW CAR	RW Exp	BP CA	HHW
								100%

WW: Wastewater, CA: Capital Asset, CAR: Capital Asset Replacement, Exp: Expansion, AT: Advanced Treatment
 RW: Recycled Water, BP CA: Bay Point Capital Asset Rehabilitation, HHW: Household Hazardous Waste

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APPENDIX A. PROGRAM DEFINITIONS

Alternative Methods of Assessing Non-Residential Connection Fees. Due to the wide variability in non-residential waste strengths, the District uses alternative methods to provide the best estimate of flow and/or strength as allowed by Section 1-3 of the State Revenue Guidelines. Alternative methods of calculating Equivalent Residential Units (ERUs) include number and type of plumbing fixtures, structure square footage, number of seats, number of rooms, etc. ERUs per unit are based on flows and strengths determined by field surveys and testing, topical literature reviews, and the State's Revenue Program Guidelines.

Annexation Fees. The purpose of the Annexation Fee is to put new system users on the same financial basis as the original users through funding of Capital Equipment Replacements. The original facilities were funded through the sale of bonds, which have been repaid by existing ratepayers within the District boundaries. The annexation fee is equal to the initial cost of planning and debt service payments for the 1982 Wastewater Treatment Facility (WWTF), divided by the total area (in acres) within the District at that time. Since 1987, the Annexation Fee has been increased by the annual Consumer Price Index (CPI). The increase in the CPI generally approximates the increased value of the facilities constructed in 1982. In February, 1995, the Board directed staff to include this fee as a revenue source for the CAR Fund.

Appropriations. The Board of Directors sets aside public funds for each Capital Improvement Program (CIP) project annually. If the District does not expend all of the funds set aside for a particular project in the fiscal year, and the project is not yet complete, the appropriation rolls over into the next fiscal year for that same project. There is no need to "reappropriate" the funds. New funds, if needed, are appropriated each year by the Board.

Bay Point Surcharge. In July, 1993, the Board of Directors passed Ordinance No. 62 adopting a Sewer Service Surcharge for Zone 1 (Bay Point). The surcharge was evaluated by the County Public Works Department and the Bay Point Municipal Advisory Committee (MAC) before it was adopted by the District's Board of Directors. The surcharge is collected from the Bay Point ratepayers to pay for the necessary replacements to their existing collection system.

California Environmental Quality Act (CEQA) Compliance. The five-year CIP is a planning level document. The document does not appropriate funding of specific projects, nor does it commit the District to carry out the projects. The document is, therefore, not growth-inducing and the production of the document has no adverse effects on the environment. The document is considered to be exempt from the provisions of CEQA under California Code of Regulations Title 14, Sections 15061(b)(c) and 15262. This conclusion is consistent with the position adopted by similar local agencies regarding their Capital Improvement planning documents. CEQA requirements shall be met before the Board approves the project.

Capital Asset Facilities. Capital Asset Facilities include the purchase of improvements and other assets not previously owned by the District. They also include improvements, which specifically benefit existing users, costing in excess of \$20,000 and which are unrelated to expansion needs. Examples of types of general Capital Facilities projects include new equipment, equipment or pipelines not included in the Capital Asset Replacement Program (CAR), replacement of existing equipment with higher efficiency or technologically improved equipment, and regulatory mandated projects. Rehabilitation of pipelines, concrete structures, and other long-service life facilities also fall under Capital Assets.

Capital Asset Fund. The Capital Asset Fund is used to establish a cash reserve and allow the orderly tracking of funds for the purchase of new assets and/or improvements to existing assets. The major revenue sources for this Fund are interest and Sewer Service Charges.

Capital Asset Replacement Facilities. Capital Asset Replacement Facilities meet the ongoing need for renewal and replacement of specific pieces of equipment and facilities with less than a 20-year useful life. They also provide for major cyclic maintenance on large pieces of equipment, such as the cogeneration facilities and replacement caused by catastrophic failure of equipment. Examples of these types of projects are roof replacements, pumps, and vehicles. Examples of specific Capital Asset Replacement projects include equipment overhauls and vehicle replacements.

Capital Asset Replacement Fund. The Capital Asset Replacement (CAR) Fund provides for the orderly renewal and replacement of existing District assets. The purpose of the CAR fund is to establish a cash reserve and allow for gradual rate increases to accommodate future expenses. It assures funds will be available when needed and that these funds have been collected from the appropriate ratepayers who have used the system and benefited from it. The major revenue sources for the CAR Fund are interest, sewer service charges, Ad Valorem property taxes, and annexation fees. Each year, unspent funds from the Wastewater Program General Fund will be transferred into this Fund.

Capital Facilities Capacity Charges. Capital Facilities Capacity Charges (CFCC) are charged to new users for system capacity. CFCCs are calculated based on the cost of the most recent expansion or the estimated cost of planned improvements and the projected growth in the District. Connection fees are the major revenue source of the Expansion Fund.

Conveyance Systems. Conveyance Systems include projects which provide for conveyance of wastewater from the zones to the Treatment Plant. Examples of types of projects include modifications to pump stations and force main installations. Specific examples of projects include the Antioch Pump Station Improvements and the Bridgehead Pump Station and Conveyance System Improvements. A primary funding source for these projects is development fees (see definition below).

Developer Contributions. Developers are required to pay for the cost of offsite improvements, which are necessary for the developer to connect the project to the District's subregional system. The fees are collected in advance of the design and construction of the improvements. The District would design and oversee the project construction. Alternately, the developers could build and dedicate the facilities with District review and permitting. Each project would be decided on a case-by-case basis.

Excess Ad Valorem Property Taxes. The District receives historical one percent (1%) of State property taxes from the County Controller's office each year. The District's Board of Directors has directed that these tax revenues be pledged to the repayment of District revenue bonds. With the retirement of the debt services for the revenue bonds in FY03/04, the District allocated property-tax revenue to the Capital Asset Replacement Fund.

Expansion Fund. The Expansion Fund is generally used to track revenues and appropriations for Treatment and Administrative Facilities projects creating new capacity. The Fund operates on the pooled funding concept (see definition below). The revenue sources for this Fund are CFCCs, interest, bond financing, developer contributions, fund transfers, and sales.

Fund Transfers. Several projects include work that is classified in more than one of the three capital program categories, including expansion, capital assets, and capital asset replacements. In this situation, the project is assigned to the fund that contributes the largest percentage of the total project costs. Dollars are transferred to and from the other categories as applicable. For example, a project might be sixty percent (60%) expansion and forty percent (40%) capital replacement. In this case, the project is classified as expansion, and forty percent (40%) of the cost of the project is transferred into the Expansion Fund from the Replacement Fund, as appropriations take place.

Non-Residential Capital Facilities Capacity Charges. Non-residential loading accounts for about eighteen percent (18%) of the total ERUs District-wide. The District utilizes ERUs to calculate the CFCC applicable to commercial and industrial connections in accordance with the State of California, State Water Resources Control Board, Revenue Program Guidelines, Sections 1-3. The ERU defines the capacity requirements of those categories of connections in terms of a "typical" residential connection, which consists of a flow of 200 gallons per day and strength of 220 mg/l of Biological Oxygen Demand (BOD) and Total Suspended Solids (TSS).

To determine non-residential CFCCs, the additional loading contributed by a commercial connection over a typical residential loading is determined and the number of ERUs calculated. The parameters used in the ERU formula are weighted based on their contribution to the cost of the facilities. This practice gives appropriate credit to commercial and industrial connections with low strength wastes.

Pooled Funding. The District has operated under the philosophy that the CFCCs are pooled to pay for expansion projects as they are needed in any zone. The philosophy is based on the reality that revenues don't always match up with needed improvements. That is, there may be more growth in one zone than in another at a time when the low-growth zone needs expanded capacity to meet expected future growth. The pooled funds philosophy provides the flexibility to build the needed facilities without incurring the added cost of bond funding. Over the long term, the philosophy expects that the revenues and expenses will even out across all zones, and all zones will pay their fair share of the debt service. The philosophy depends on periodic audits of expenses and revenues for each zone and subsequent adjustment of development fees as necessary to assure a fair and equitable balance across all zones.

Proceeds from COPs. A Certificate of Participation (COP) may be issued to fund projects. This revenue source would be allocated to Conveyance, Collection, Treatment, and Administrative Expansion Facilities.

Project Prioritizing. The project prioritizing system is used to determine which projects will be constructed first, depending on project need. The priority number for each project is listed on the project description. The numbers are also included in the revenue and expense tables. Each project description includes an estimate of Operations & Maintenance (O&M) costs or savings. Projects with O&M savings are considered payback projects. Payback periods are determined by dividing the project cost by the annual O&M savings. The payback period of a project is one of the prioritization criteria. In general, shorter paybacks are higher priority projects.

- A. Priority 1 – These are “mandatory” projects that are the highest priority of all of the projects. They include projects that:
 - Protect health and safety for the public or District personnel
 - Are in response to regulatory mandates
 - Projects budgeted for the year one of the five-year CIP, identified in a Master Plan to provide capacity for future users

- Projects that are already under construction are also included as Priority 1 because there would be a large cost to the District to terminate them
- B. Priority 2 – These are “necessary” projects that fall below the urgency of Priority 1 projects. There is a moderate level of discretion on when these projects are implemented. They include projects that:
- Maintain or enhance the efficient and effective operation of the treatment and conveyance system
 - Increase reliability of wastewater service delivery
 - Cyclic maintenance of existing facilities
 - When rate of return is a determining factor, these projects have a greater than two-year, but less than a five-year, payback period
- C. Priority 3 – These are discretionary projects over which the District has significant control. They have no potential health and safety or regulatory impacts and have a payback period of greater than five years. These projects would typically improve the long-term performance of the system. Projects budgeted for the year two through year five of the five-year CIP, identified in a Master Plan to provide capacity for future users.

Sewer Service Charge. This is the annual Sewer Service Charge (SSC) levied on the District ratepayers. The majority of the funds are collected by the County on the County tax rolls. Funds from this revenue source are allocated to the Capital Asset and Capital Asset Replacement Funds with the balance going to fund operations of the District. By Board policy, no SSCs are used for the Expansion Fund. However, bond covenants do pledge SSCs to pay debt service should connection fees not be sufficient to pay annual debt service.

Treatment, Administrative, and Collection Facilities. These facilities include projects which provide or accommodate additional capacity by the District and projects, which provide for the transport of wastewater from specific developments or groups of developments to the conveyance systems or treatment plant (see definition of Conveyance System above). Examples of these types of facilities include new equipment, structures, planning studies, and pipelines.

APPENDIX B. CIP POLICY STATEMENTS

GENERAL

1. It is the policy of the District to maintain a capital program which will provide collection, treatment, and disposal capacity to meet existing and future needs, while simultaneously providing for necessary renewal, replacement, and process upgrades.
2. It is the policy of the District to require developers to pay for the off-site improvements that are necessary for the developer to connect the project to the District's Subregional System.
3. It is the policy of the District to close out the CIP at the end of each fiscal year and delegate authority to the General Manager to carry forward unexpended project funds to the next fiscal year as of June 30.
4. It is the policy of the District to regularly review and adopt the necessary fees and charges that will fund the projects in the CIP.
5. It is the policy of the District to allow the General Manager to utilize funds from the appropriate Capital Asset Replacement program fund to replace assets that have been fully funded or whose replacement value is less than \$50,000 through the Rehabilitations and Replacements Project listings. This authority extends only to the level of funds available from the Replacement Model.
6. The following items were approved under Resolution 13/00 and apply to the CIP
 - a. The Board shall retain the authority for the following:
 - Approval of program transactions and transfers larger than \$35,000 not specifically included below
 - Final approval of carry-forward items into the new fiscal year from a previous year
 - Establishment, combination, or elimination of program funds in the District accounting system
 - Non-recurring transfers made in compliance with special statutes or ordinances which do not qualify as revenues or expenditures to the receiving or disbursing funds
 - Approval of the District budget and any revisions thereto during the fiscal year
 - Approval of the District audit
 - Execute miscellaneous agreements for budgeted services and supplies exceeding \$100,000 annually to operate and maintain the District's Wastewater Treatment facilities, Recycled Water facilities, and Household Hazardous Waste facilities
 - Transfer of cash or assets between operating funds, projects, or budgets
 - Disposal of fixed assets
 - Approval of monthly financial and investment reports
 - Approval of increases in expenditures for department budgets in the general fund and for project budgets in other funds
 - Annual review and approval of a District investment policy
 - Authorization of long-term obligations on behalf of the District from one or more programs or funds of the District

- b. The General Manager shall have the following authorities:
- Preparation and implementation of the budget once adopted by the Board
 - Reallocation of funds between line items in individual department budgets and projects that do not result in an increase in the approved budget
 - Approval of contracts, agreements, and expenditures up to \$35,000 for items previously approved by the Board in the budget
 - Execution of miscellaneous agreements for budgeted service and supply agreements and purchase orders under \$100,000 annually to operate and maintain the District's Wastewater Treatment facilities, Recycled Water facilities, and Household Hazardous Waste facilities
 - Payment of intermediate and progress payments on all Board-approved contracts and obligations
 - Carry forward funds into the new fiscal year from the previous year for budgeted, committed, and/or planned expense
 - Transfer of funds for investment purposes between funds and investment institutions based upon Board investment policy
 - Distribution of interest from investment to the funds based upon appropriate Board policy.
 - Implementation of policies and procedures adopted by the Board of Directors that affect programs or fund operations
 - Establishment of accounts and methods to properly account and manage District funds.
 - Authority to sign unbudgeted agreements/contracts on behalf of the District up to \$35,000, consistent with Board philosophy and direction and subject to a monthly report to the Board of all agreements/contracts signed during the previous month
 - Approval of Change Orders to construction projects not exceeding \$2,500 and not totaling more than 10% of the approved Construction Contract to a maximum of \$50,000. For projects in excess of \$500,000, the Change Order limit will be established by the Board at the time of the Award of Contract
 - Management of long-term debt obligations based upon the approved contracts and obligations by the Board
 - Authority to execute and/or accept easements, offers of dedication, and right-of-way documents and/or drawings for the District

APPENDIX C. CAPITAL PROJECT CONCEPTS

Introduction

The Appendix C, Capital Project Concepts, was first introduced into the 2016 Capital Improvement Program with the intent of outlining capital project ideas and concepts that were not officially adopted by the District's Board of Directors for implementation in this 5-year Capital Improvement Program (CIP). Capital Project Request forms may be submitted by any District department for implementation within the 5-year timeline of the CIP but are subject to District review and approval for adoption into the CIP.

While all project requests are important and are carefully considered, the District's goal is to prepare and adopt a CIP that is preemptive, fiscally responsible, and cost-effective, while promoting efficient completion. The projects incorporated into the CIP were recommended for adoption based on their impact to the health and safety of the public and employees, physical and functional need, regulatory requirement, etc. Projects that are included in this Appendix C were not officially adopted by the District's Board of Directors due to limited resources and funding.

This Appendix C is used to document these ideas and concepts for deliberation and inclusion in a future 5-year CIP. Each year, during the CIP preparation cycle, staff will review the projects in this Appendix C, along with new Capital Project Requests, to recommend a new funding and prioritization schedule for adoption by the District's Board of Directors.

Capital Project Concepts, General

The projects included in this section were typically submitted for review and approval using the Capital Project Request form. A few projects may have been submitted via email or verbally without the Form. This section does not reproduce the Forms, rather it consolidates the following key information for each project request:

Capital Project Concept. A project submitted for inclusion in the CIP that was not adopted by the District's Board of Directors. The project may have been submitted on a Capital Project Request form, via email, or via verbal request.

Project Name. The name given to a proposed project to briefly identify and describe its purpose.

Concept No. A numeric code (i.e. "16-1") comprising the last two digits of the fiscal year the project was included in Appendix C and a sequential number that the project appeared in Appendix C. The Concept No. is given to a Capital Project Concept for tracking purposes.

Requesting Party. The Department (i.e. Engineering) that submitted the Capital Project Concept. During the CIP preparation cycle, the Senior Engineer will review the Capital Project Concept with the Requesting Party and determine a new priority and timeline for it.

Year Submitted. The year that the Capital Project Concept was first proposed.

Funding Source. The financial source for funding the proposed project.

Estimated Costs. A table listing ballpark planning, design, construction, and contingency costs.

FY19/20 – FY23/24					
Capital Improvement Program					
Proposed Project List					
Project Name	Concept No.	Requesting Party	Year Submitted	Funding Source	Estimated Cost
Treatment Plant Advanced Treatment (Nutrient)	15-1	Amanda Roa	2015	WW CA	\$15M
Treatment Plant Roadway Maintenance	17-3	Ian Bronswick	2017	WW CAR	\$1.25M
Primary Clarifiers #1 - #4 Replacement	17-4	Thanh Vo	2017	WW CAR	\$16M
Antioch Pump Station Replacement	17-5	Thanh Vo	2017	WW CAR	\$15M
Primary Clarifier No. 5	18-1	Thanh Vo	2018	WW CA	\$5M
District Office Building Improvements	18-2	Irene O’Sullivan	2018	WW CAR	\$15M
TP Cogen Replacement	19-1	Irene O’Sullivan	2019	WW CAR	\$5M
Chemical Building Canopy Replacement	19-3	Ian Bronswick	2019	WW CAR	\$1M
BP Sewer Rehabilitation – Phase V	19-4	Patricia Chapman	2019	BP Rehab	\$4M
Digester Gas Compressor Replacements	19-5	Thanh Vo	2019	WW CAR	\$500K
Project Management Information System	19-5	Thanh Vo	2019	WW CA	\$400K
AFM 102 Force Main Rehabilitation	19-5	Thanh Vo	2019	WW CAR	\$5M

APPENDIX D. APPROVING RESOLUTION AND CEQA DETERMINATION

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**BEFORE THE BOARD OF DIRECTORS OF
DELTA DIABLO**

Re: Approving Fiscal Year)
2019/2020 - 2023/2024)
Capital Improvement Program)

RESOLUTION NO. 4/2019

THE BOARD OF DIRECTORS OF DELTA DIABLO HAS DETERMINED THAT:

WHEREAS, the District finds that it is in its best interest to prepare a Five-Year Capital Improvement Program that conforms with Government Code §65403 regarding preparation of programs by special districts and other government agencies; and

WHEREAS, Government Code §65403 requires an annual review and revision of the program to include an extension of the program for an additional year; and

WHEREAS, the Board of Directors of Delta Diablo was presented with a draft Fiscal Year 2019/2020 – 2023/2024 Capital Improvement Program on April 10, 2019; and

WHEREAS, the draft Capital Improvement Program was circulated to the cities of Antioch and Pittsburg, and Contra Costa County for review on April 11, 2019, and the cities of Antioch and Pittsburg, and Contra Costa County did not notify the District of any Capital Improvement Program finding; and

WHEREAS, Government Code §65403 provides that if an agency does not take action within forty (40) days of transmittal of the proposed program, it is “conclusively deemed” to constitute a finding that the Capital Improvement Program is consistent with the General Plan; and

WHEREAS, the District did, on June 12, 2019, conduct a public hearing for purposes of receiving input with regard to the revised program, and did consider the direct inclusion of appropriate changes.

NOW THEREFORE, the Board of Directors of Delta Diablo DOES HEREBY RESOLVE AND ORDER that it approves the Fiscal Year 2019/2020 – 2023/2024 Capital Improvement Program, attached by reference.

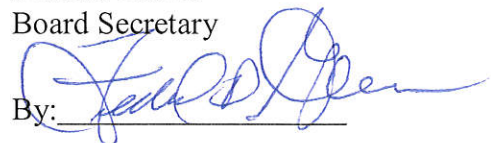
PASSED AND ADOPTED on June 12, 2019, by the following vote:

AYES: Banales, Glover, Wright
NOES:

ABSENT:
ABSTAIN:

I HEREBY CERTIFY that the foregoing is a true and correct copy of a Resolution adopted by the Board of Directors of Delta Diablo on June 12, 2019.


ATTEST: Federal Glover
Board Secretary

By: 

NOTICE OF EXEMPTION

To: County Clerk
County of Contra Costa
555 Escobar Street
Martinez, CA 94553

From: Vince De Lange, General Manager
Delta Diablo
2500 Pittsburg-Antioch Highway
Antioch, CA 94509-1373
Telephone: (925) 756-1900



Signature

01/17/19

Date

SUBJECT: FILING OF NOTICE OF EXEMPTION, CALIFORNIA ENVIRONMENTAL QUALITY ACT IN COMPLIANCE WITH PUBLIC RESOURCES CODE 21152

PROJECT TITLE: Five-Year Capital Improvement Program, Fiscal Years 2019/2020 through 2023/2024

STATE CLEARANCE HOUSE NUMBER: N/A

PROJECT LOCATION: 2500 Pittsburg-Antioch Highway, Antioch, CA 94509-1373

LEAD AGENCY APPROVING AND CARRYING OUT PROJECT: Delta Diablo, 2500 Pittsburg-Antioch Highway, Antioch, CA 94509

CONTACT PERSON: Thanh Vo, Senior Engineer

EXEMPT STATUS: The Board of Directors of Delta Diablo finds that this project qualifies for categorical and statutory exemptions from the provisions of CEQA under California Code of Regulations, Title 14, Section 15061 (b)(3) and Section 15262.

REASONS WHY PROJECT IS EXEMPT: This project is a planning study, which does not approve or adopt the specific projects, and preparation of this document has no adverse environmental impacts.

AFFIDAVIT OF POSTING

I declare that on _____, I received and posted this Notice as required by Public Resources Code 21152(c). It will remain posted for thirty (30) days.

Signature

Title

