

## **Public Utilities**



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The Public Utilities Department provides water, wastewater, and recycled water services to approximately 1.4 million water customers and 2.2 million wastewater customers within the San Diego region. The Department's Capital Improvement Program (CIP) supports the infrastructure for reliable water supply and wastewater collection and treatment.

The water system extends over 404 square miles with potable water demands of approximately 155 million gallons per day (mgd). This system includes 49 water pump stations, 29 treated water storage facilities, three water treatment plants, and approximately 3,300 miles of pipelines. The Department also manages the recycled water system, which includes three pump stations and 103 miles of purple pipe delivering an annual average of over 10 mgd for irrigation, manufacturing, and other non-potable uses.

The wastewater system consists of the Municipal (Muni) System and Metropolitan (Metro) System. The Muni System consists of approximately 3,000 miles of pipelines and 77 sewer pump stations and is primarily used to collect and convey wastewater from residences and businesses in the City of San Diego. The Metro System consists of three wastewater treatment plants, one biosolids processing facility, four large pump stations, and two outfalls. The System provides treatment and disposal services for the City and 12 other agencies and districts within a 450-square mile area; stretching from Del Mar to the north, Alpine and Lakeside to the east, and San Ysidro to the south.

The Department is launching proven innovative water purification technology known as Pure Water San Diego. Pure Water San Diego is a 20-year cost effective, integrated water and wastewater capital improvement program. The program is designed to provide a safe, secure, and sustainable local water supply by turning recycled water into drinkable water using water purification technology.

Funding for water and wastewater projects is provided by a variety of sources which can include bond financing, commercial paper financing, water and sewer rates, state revolving fund loans, and grants. Approximately 33 percent of all Metro Fund expenditures are funded by Participating Agencies.

The CIP program includes water projects mandated in the Compliance Order from the California Department of Public Health (CDPH), currently known as the State Water Resources Control Board - Division of Drinking Water (DDW). These projects will meet the requirements of the federal Safe Drinking Water Act. In addition, the Department continues to replace/rehabilitate aging infrastructure in compliance with the Clean Water Act.

### **2019 CIP Accomplishments**

In Fiscal Year 2019, the Department completed the replacement and rehabilitation of 31.24 miles of sewer mains. The Department has also televised 52.9 miles of sewer mains as of June 30, 2019. To date, over 2,130 miles of sewer mains have been assessed and more than 794 miles have been identified for replacement or rehabilitation.

The Public Utilities Department, in collaboration with the Public Works Department, oversees the design and construction of water, wastewater, and recycled water projects. The following accomplishments have occurred in Fiscal Year 2019:

- Construction was completed on the Sewer & Water Group 701 Project, which consisted of replacement, rehabilitation and realignment of 6" and 8" concrete pipe and vitrified clay sewer mains, as well as replacement of 10" parallel cast iron water mains in Middletown area.
- Construction was completed on the Water Group Job 948 Project, which consisted of replacement of approximately 1.17 miles of existing water mains in the Mission Valley area.
- Construction was completed on the photovoltaic system of approximately 500 kilowatts at MOC Complex and 300 kilowatts on the deck of the Bayview Reservoir.
- Construction was completed on the AC Water Group 1028 Project, which consisted of replacement of 21,830 linear feet (4.13 miles) of existing AC water main in the Clairemont Mesa area.
- Construction was completed on the Sewer Group 835 Project, which consisted of replacement of 13,200 linear feet (2.5 miles) of existing deteriorated sewer mains with Polyvinyl Chloride (PVC) pipes in multiple areas.
- Construction continues on the AC Water & Sewer Group 1020 Project, which consists of replacement of 0.05 miles of AC sewer main pipe in the Uptown area. The construction is anticipated to be completed in 2019.
- Construction continues on the Sewer & AC Water Group Job 776 Project, which consists of rehabilitation of 655 linear feet of existing VC sewer main, installation of 15,055 linear feet of new sewer main and replacement of 3,968 linear feet of existing VC sewer main in the Mid-City area. The construction is anticipated to be completed by in 2019.
- Construction continues on the Pipeline Rehabilitation AP-1 Project, which consists of rehabilitation of approximately 22,993 linear feet (4.36 miles) of existing 6" and 8" deteriorated vitrified clay sewer mains including 0.12 miles of vitrified clay sewer mains with point repair in the La Jolla area. The construction is anticipated to be completed by in 2019.
- Construction continues on the 69<sup>th</sup> & Mohawk Pump Station Project, which consists of construction of a new pump station. The pump station facility piping will be designed to handle a minimum of 18.03 mgd (12,521 gallons per minute). It also entails 3,400 feet of new pipeline and replacement of cast iron pipelines totaling 3,960 feet. The construction is anticipated to be completed in 2019.
- Construction continues on the Mid-City Pipeline Phase 2A Project, which consists of installation of 820 feet of 66" steel pipeline from the 69th & Mohawk Pump Station to the intersection of 68th Street and El Cajon Boulevard and connect to the Mid-City Pipeline Phase I. The construction is anticipated to be completed in 2019.
- Construction continues on the University Ave Pipeline Replacement Project, which consists of replacement of 23,072 linear feet (4.3 miles) of existing cast iron transmission and distribution mains with new 16-inch PVC pipeline. The construction is anticipated to be completed in 2020.

The Public Utilities Department has identified the following projects that will assist in achieving the targets set forth within the City's Climate Action Plan: The Advanced Metering Infrastructure Project, the MOC Complex Solar Project, the North City Water Reclamation Plant to 30 MGD project, and the Pure Water Program.

The following accomplishments were made on the Pure Water Program:

- The design phase was completed for Phase 1
- Completed constructability reviews of all Phase 1 designs
- City Council authorized the mayoral award of Phase 1 construction with a not-to-exceed amount of approximately \$1.1 billion
- City Council authorized funding for an Owner-Controlled Insurance Program (OCIP) in November 2018 and the Department coordinated with insurance broker to assemble insurance coverage quotations from carriers
- Conducted two contractor forums to update the industry on Phase 1 construction packages and advertisement schedule
- Held a Pure Water Open House at the North City Water Reclamation Plant to give the public an opportunity to learn about the program. Over 350 people attended the open house.
- Held Community Working Group meetings to solicit input and feedback on opportunities to avoid, minimize or mitigate potential construction impacts
- Award of first Phase 1 construction package Early Site Work for the North City treatment plants. Began advertisement of Phase 1 treatment facility construction and portion of pipeline construction.
- Finalized the North City Project (Phase 1) Title 22 Engineering Report and received draft conditional acceptance letter from California Division of Drinking Water (DDW). Their approval of Pure Water to be used as a supply to the Miramar Water Treatment Plant is pending.
- Receipt of the National Environmental Policy Act (NEPA) Record of Decision on November 1, 2018. Secured US Army Corps of Engineers Section 404 Nationwide Permit, Regional Water Quality Control Board Section 401 Water Quality Certification, and California Department of Fish and Wildlife Streambed Alteration Agreement programmatic resource agency permits
- Receipt of a majority agency permits for the construction of Phase 1
- Finalization of the Water Infrastructure Finance and Innovation Act loan from the United States Environmental Protection Agency, in the amount of \$614.0 million
- Completed pilot studies to evaluate possible impacts of Pure Water on Miramar Water Treatment Plant operations and its distribution service area; results showed no issues of concern at this time

- Completed filter testing at the North City Water Reclamation Plant to demonstrate the ability to increase the filter loading rate by more than 10.0 percent to 8.7 gallons per minute per square foot. Received approval from DDW to operate at this higher loading rate. This provides additional operational redundancy and flexibility.

### 2020 CIP Goals

The Public Utilities Department's goal is to provide safe drinking water to the 1.4 million residents of San Diego, and regional wastewater treatment and disposal services for 2.2 million wastewater customers in the San Diego region.

To improve its aging infrastructure, the Public Utilities Department continues to replace and rehab about 40 sewer miles and award 35 water miles per fiscal year. These capital needs are based on condition assessment results, future demand, policies, and regulatory requirements to continue providing reliable service to our customers.

Public Utilities has developed a robust condition assessment program to provide comprehensive assessment coverage for water and wastewater infrastructure including water transmission lines, dams, reservoirs, and large diameter wastewater pipelines. In addition, the Department continues its ongoing condition assessment efforts including inspection of 50-60 miles of sewer mains per fiscal year.

In Fiscal Year 2020, the Department anticipates accomplishing the following for the Pure Water Program:

- Advertise all remaining Phase 1 construction packages
- Obtain Division of Drinking Water Conditional Acceptance Letter for North City Pure Water Project Title 22 Engineering Report
- Issue Request for Proposals for the design, construction, finance, operation, and maintenance of the North City Renewable Energy Facility
- Enter into a loan agreement for State Revolving Fund financing
- Begin planning of Pure Water Phase 2

## Public Utilities: Capital Improvement Projects

Project	Prior Fiscal Years	FY 2020 Adopted	Future Fiscal Years	Project Total
30th Street Pipeline Replacement / S12010	\$ 22,500,000	\$ 6,253,592	\$ -	\$ 28,753,592
69th & Mohawk Pump Station / S12011	15,088,594	-	-	15,088,594
Advanced Metering Infrastructure / S17008	67,568,898	-	-	67,568,898
Alvarado 2nd Extension Pipeline / S12013	6,703,986	5,000,000	41,409,056	53,113,042
Alvarado Trunk Sewer Phase IV / S15019	5,450,000	6,670,000	42,209,009	54,329,009
Backup Generators at SPS's, TP & EMTS / S12036	15,345,600	-	-	15,345,600
Bayview Reservoir Solar Project / S14021	1,225,000	-	-	1,225,000
Catalina 12inch Cast Iron Mains / S12008	12,970,000	-	-	12,970,000
Chollas Building / S11025	41,176,870	2,700,000	-	43,876,870
Cielo & Woodman Pump Station / S12012	2,678,000	-	4,200,000	6,878,000
Corrosion Control / AKA00001	479,785	-	-	479,785
El Monte Pipeline No 2 / S10008	3,948,000	500,000	8,092,001	12,540,001
EMTS Boat Dock Esplanade / S00319	1,018,535	400,000	2,012,316	3,430,851
Freeway Relocation / AKB00002	2,589,774	-	400,000	2,989,774
Groundwater Asset Development Program / ABM00001	2,827,605	1,000,000	4,203,479	8,031,084
Harbor Drive Trunk Sewer / S18006	4,791,250	5,000,000	11,253,751	21,045,001
Instrumentation and Control / AKB00007	500,000	-	1,350,000	1,850,000
Kearny Mesa Trunk Sewer / S20000	-	500,000	23,700,000	24,200,000
La Jolla Scenic Drive 16inch Main / S12009	9,232,000	316,000	-	9,548,000
La Jolla View Reservoir / S15027	4,425,000	955,001	21,620,313	27,000,314
Large Diameter Water Transmission PPL / AKA00003	45,506,427	5,750,295	26,410,200	77,666,922
Little McGonigle Ranch Road Pipeline / S00069	6,000,000	-	-	6,000,000
Lower Otay Outlet Tower / S12018	1,990,811	-	655,053	2,645,864
Lower Otay Reservoir Emer Outlet Improve / S00044	1,179,971	-	-	1,179,971
MBC Dewatering Centrifuges Replacement / S00339	12,122,443	-	-	12,122,443
MBC Equipment Upgrades / S17013	3,800,000	11,266,772	25,697,391	40,764,163
Metropolitan System Pump Stations / ABP00002	1,219,385	-	19,448,564	20,667,949
Metropolitan Waste Water Department Trunk Sewers / AKB00001	24,538,020	4,424,710	55,634,192	84,596,922
Metro Treatment Plants / ABO00001	10,470,065	2,014,156	11,999,731	24,483,952
Miramar Clearwell Improvements / S11024	110,412,944	9,915,800	-	120,328,744
MOC Complex Solar Project / S14022	2,675,000	-	-	2,675,000
Montezuma/Mid-City Pipeline Phase II / S11026	18,018,200	-	34,681,800	52,700,000
Morena Pipeline / S16027	24,562,501	15,364,419	63,958,638	103,885,558
Morena Reservoir Outlet Tower Upgrade / S00041	4,480,000	2,000,000	20,020,000	26,500,000
NCWRP Improvements to 30 mgd / S17012	5,690,000	8,320,539	20,399,459	34,409,998
New 16" Water Mains (U-3) / RD15003	1,225,000	-	-	1,225,000

## Public Utilities

Project	Prior Fiscal Years	FY 2020 Adopted	Future Fiscal Years	Project Total
Otay 1st/2nd PPL West of Highland Avenue / S12016	8,813,051	6,000,000	14,627,449	29,440,500
Otay 2nd Pipeline Phase 4 / S20001	-	500,000	31,270,000	31,770,000
Otay Second Pipeline Relocation-PA / S15016	4,834,092	8,262,079	14,948,274	28,044,445
Pacific Beach Pipeline South (W) / S12015	34,372,845	5,737,598	-	40,110,443
Pipeline Rehabilitation / AJA00002	116,373,133	25,674,443	66,970,508	209,018,084
Pressure Reduction Facility Upgrades / AKA00002	1,050,000	800,000	6,328,442	8,178,442
PS2 Power Reliability & Surge Protection / S00312	44,295,232	15,350,000	12,955,568	72,600,800
Pump Station Restorations / ABP00001	16,665,521	-	50,625,584	67,291,105
Pure Water Pooled Contingency / P19002	1,450,000	30,033,498	78,365,872	109,849,370
PURE Water Program / ALA00001	293,302,715	356,804,821	937,789,036	1,587,896,572
Recycled Water Systems Upgrades / AHC00004	2,627,586	-	-	2,627,586
Recycled Water Tank Modifications / S12014	1,500,000	-	-	1,500,000
SBWR Plant Demineralization / S00310	5,973,695	-	-	5,973,695
Sewer Main Replacements / AJA00001	250,961,353	31,734,776	153,393,438	436,089,567
Standpipe and Reservoir Rehabilitations / ABL00001	18,662,290	2,361,000	72,068,134	93,091,424
Tecolote Canyon Trunk Sewer Improvement / S15020	5,680,000	2,500,000	26,820,000	35,000,000
Tierrasanta (Via Dominique) Pump Station / S12040	15,253,996	580,000	-	15,833,996
University Ave Pipeline Replacement / S11021	27,200,000	-	-	27,200,000
University Heights Reservoir Rehabilitation / S20002	-	1,000,000	17,200,000	18,200,000
University Heights Water Tower Seismic Retrofit / S17006	2,313,000	-	-	2,313,000
Unscheduled Projects / AJA00003	9,723,879	-	-	9,723,879
Upas St Pipeline Replacement / S11022	37,596,326	-	-	37,596,326
Water Department Security Upgrades / S00050	7,565,062	-	-	7,565,062
Water Main Replacements / AKB00003	315,844,286	64,191,685	224,930,567	604,966,538
Water Pump Station Restoration / ABJ00001	23,102,108	1,477,453	27,211,249	51,790,810
Water & Sewer Group Job 816 (W) / S13015	16,519,392	1,400,000	-	17,919,392
Water Treatment Plants / ABI00001	2,769,966	500,000	984,768	4,254,734
Wet Weather Storage Facility / S00314	2,491,626	1,000,000	3,780,501	7,272,127
<b>Total</b>	<b>\$ 1,761,350,819</b>	<b>\$ 644,258,637</b>	<b>\$ 2,179,624,343</b>	<b>\$ 4,585,233,799</b>



## Public Utilities – Preliminary Engineering Projects

Pure Water Pooled Contingency / P19002

Priority Category:

High

Priority Score:

85

Expenditure by Funding Source					
Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	Project
Metro Sewer Utility - CIP Funding Source	700009	\$ -	\$ 725,000	\$ 12,498,069	\$ 46,136,735
Water Utility - CIP Funding Source	700010	-	725,000	17,535,429	63,712,635
<b>Total</b>		<b>\$ -</b>	<b>\$ 1,450,000</b>	<b>\$ 30,033,498</b>	<b>\$ 109,849,370</b>

**Public Utilities**

**30th Street Pipeline Replacement / S12010**

**Water - Distribution Sys - Transmission**

<b>Council District:</b>	3 8	<b>Priority Score:</b>	93
<b>Community Planning:</b>	Greater North Park; Greater Golden Hill; Southeastern San Diego	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Bose, Sheila
<b>Duration:</b>	2014 - 2022		619-533-4698
<b>Improvement Type:</b>	Replacement		sbose@sandiego.gov

**Description:** This project will replace approximately 5.11 miles of existing cast iron mains from Polk Avenue to Commercial Street. Also, it will update the transmission and distribution system in the University Heights (390 Zone) to meet its current and future needs.

**Justification:** This project will replace the cast iron pipe, provide supply reliability to the south end of the 390 Zone, and improve water quality.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Greater North Park, Greater Golden Hill, and Southeastern San Diego Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2015 and was completed in Fiscal Year 2018. Construction began in Fiscal Year 2018 and is anticipated to be completed in Fiscal Year 2021.

**Summary of Project Changes:** The total project cost increased by \$1.3 million in Fiscal Year 2020 in accordance with construction awarded amount.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 11,712,593	\$ 10,787,406	\$ 6,253,592	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,753,592
<b>Total</b>		<b>\$ 11,712,593</b>	<b>\$ 10,787,406</b>	<b>\$ 6,253,592</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 28,753,592</b>

## Public Utilities

### 69th & Mohawk Pump Station / S12011

### Bldg - Water - Pump Stations

<b>Council District:</b>	4 9	<b>Priority Score:</b>	96
<b>Community Planning:</b>	College Area; Mid-City: Eastern Area	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2013 - 2020		619-533-6651
<b>Improvement Type:</b>	Expansion		dvanmartin@sandiego.gov

**Description:** This project will construct a new pump station at the corner of 69th Street and Mohawk Street. The new pump station will feed the 645 Redwood Village Pressure Zone.

**Justification:** This project will replace the existing 40 year old Montezuma Pump Station for Redwood Village which is reaching the end of its lifecycle.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with College Area and Mid-City: Eastern Area Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2015 and was completed in Fiscal Year 2017.

Construction began in Fiscal Year 2017 and was completed in Fiscal Year 2019.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020. Project is complete and will be closed by the end of the fiscal year.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 12,121,634	\$ 2,966,959	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,088,594
<b>Total</b>		<b>\$ 12,121,634</b>	<b>\$ 2,966,959</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 15,088,594</b>

## Public Utilities

### Advanced Metering Infrastructure / S17008

### Bldg - Other City Facility / Structures

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	59
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Arnold, Jane
<b>Duration:</b>	2017 - 2022		858-292-6452
<b>Improvement Type:</b>	Betterment		dbryant@sandiego.gov

**Description:** This project deploys Advanced Metering Infrastructure (AMI) technology to approximately 270,000 water meters citywide. This allows meters to be read electronically rather than by direct visual inspection by field staff, which improves the accuracy of the meter reads. This project also helps to implement the City's Climate Action Plan.

**Justification:** This project streamlines the collection of water meter information, provides near real time data, assists with promptly solving water usage and billing questions, and provides customers with a tool to conserve and manage their water consumption.

**Operating Budget Impact:** None

**Relationship to General and Community Plans:** This project is consistent with applicable community plans, is in conformance with the City's General Plan, and helps to implement the City's Climate Action Plan.

**Schedule:** The installation is anticipated to be completed in Fiscal Year 2022.

**Summary of Project Changes:** The project schedule was updated for Fiscal Year 2020.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 4,220,579	\$ 16,050,089	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,270,669
Water Utility - CIP Funding Source	700010	9,854,543	37,443,686	-	-	-	-	-	-	-	-	47,298,229
Water Utility Operating Fund	700011	(261)	261	-	-	-	-	-	-	-	-	-
<b>Total</b>		<b>\$ 14,074,861</b>	<b>\$ 53,494,036</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 67,568,898</b>

## Public Utilities

### Alvarado 2nd Extension Pipeline / S12013

### Water - Distribution Sys - Transmission

<b>Council District:</b>	2 3 7	<b>Priority Score:</b>	92
<b>Community Planning:</b>	Mission Valley; Mission Bay Park; Old San Diego	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Bose, Sheila
<b>Duration:</b>	2016 - 2024		619-533-4698
<b>Improvement Type:</b>	Expansion		sbose@sandiego.gov

**Description:** The Alvarado 2nd Extension Pipeline Project is proposing to build a new 48-inch and a 30-inch main extending the existing Alvarado 2nd westerly connecting to the new 20-inch Pacific Beach Pipeline along West Mission Bay Dr (approx. 6.42 miles). A 536 to 390 HGL Pressure Reducing Station (PRS) will be built along the new 30-inch pipeline at the Friars Rd and Sea World Dr intersection. An existing 12-inch Asbestos Concrete (AC) pipe just northwest of the West Mission Bay Dr Bridge within the Pacific Beach 307 Zone will be relocated along Sea World Dr, connecting to the new 20-inch Pacific Beach Pipeline along West Mission Bay Dr. This project also includes the replacement of all parallel 16-inch AC water mains. The AC mains run along Friars Rd. between Morena Blvd. and East of Mission Center Rd. (approx. 3.90 miles). Total length of this project is approximately 10.32 miles.

**Justification:** This project was driven by the need to provide redundant transmission to the coastal zones of La Jolla and Pacific Beach for supply reliability. The proposed Alvarado 2nd Extension Pipeline will be the main feed to Pacific Beach Zones. With the new pipeline feeding from the Alvarado Water Treatment Plant (WTP), the San Diego County Water Authority (CWA) treated water intake at San Diego Connection #11 which currently feeds those zones will greatly reduce. This will also provide supply flexibility between the Alvarado and Miramar WTP Service Areas.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Mission Valley, Old Town San Diego, and Mission Bay Park Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2018 and is anticipated to be completed in Fiscal Year 2021. Construction is scheduled to begin in Fiscal Year 2022 and is anticipated to be completed in Fiscal Year 2024.

**Summary of Project Changes:** The project schedule was updated for Fiscal Year 2020.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,872,862	\$ 4,831,123	\$ 5,000,000	\$ -	\$ 5,000,000	\$ 15,000,000	\$ 20,000,000	\$ 1,409,056	\$ -	\$ -	\$ 53,113,042
<b>Total</b>		<b>\$ 1,872,862</b>	<b>\$ 4,831,123</b>	<b>\$ 5,000,000</b>	<b>\$ -</b>	<b>\$ 5,000,000</b>	<b>\$ 15,000,000</b>	<b>\$ 20,000,000</b>	<b>\$ 1,409,056</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 53,113,042</b>

**Public Utilities**

**Alvarado Trunk Sewer Phase IV / S15019**

**Wastewater - Collection Sys - Trunk Swr**

<b>Council District:</b>	7 9	<b>Priority Score:</b>	84
<b>Community Planning:</b>	Navajo; College Area	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Jaro, Janice
<b>Duration:</b>	2015 - 2024		858-533-3851
<b>Improvement Type:</b>	Replacement		jjaro@sandiego.gov

**Description:** This project replaces and upsizes 3.12 miles of the Alvarado Trunk Sewer to provide additional capacity.

**Justification:** This trunk sewer will be upgraded with a larger pipe to improve capacity and condition.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Navajo and College Area Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2016 and is anticipated to be completed in Fiscal Year 2020. Construction is anticipated to begin in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2023.

**Summary of Project Changes:** The total project cost increased by \$9.0 million due to current construction industry estimates. Additionally, the project schedule has been updated for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 3,605,045	\$ 1,844,954	\$ 6,670,000	\$ -	\$ 21,660,000	\$ 11,519,000	\$ 9,030,009	\$ -	\$ -	\$ -	\$ 54,329,009
<b>Total</b>		<b>\$ 3,605,045</b>	<b>\$ 1,844,954</b>	<b>\$ 6,670,000</b>	<b>\$ -</b>	<b>\$ 21,660,000</b>	<b>\$ 11,519,000</b>	<b>\$ 9,030,009</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 54,329,009</b>

## Public Utilities

### Backup Generators at SPS's, TP & EMTS / S12036

### Bldg - MWWd - Pump Stations

<b>Council District:</b>	1 5 8	<b>Priority Score:</b>	N/A
<b>Community Planning:</b>	University; Miramar Ranch North; Barrio Logan; Torrey Pines	<b>Priority Category:</b>	N/A
<b>Project Status:</b>	Warranty	<b>Contact Information:</b>	Dadachanji, Chisti
<b>Duration:</b>	2012 - 2020		858-654-4493
<b>Improvement Type:</b>	New		pdadachanji@sandiego.gov

**Description:** This project purchases seven generators and provides a design-build contract to install the generators and associated equipment for permanent power connection to existing sewer Pump Stations 1, 64, 65, Penasquitos, North City Reclamation Plant, and Environmental Monitoring Technical Services laboratory. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** This project is necessary to prevent environmental damage from sewer spills and prevention of permit violation issues when regional electrical black-outs occur.

**Operating Budget Impact:** None

**Relationship to General and Community Plans:** This project is consistent with the University, Miramar Ranch North, Barrio Logan, and Torrey Pines Community Plans and is in conformance with the City's General Plan.

**Schedule:** Engine procurement began in late Fiscal Year 2012 and was completed in Fiscal Year 2014. Design began in Fiscal Year 2013 and was completed in Fiscal Year 2016. Construction began in Fiscal Year 2013 and was completed in Fiscal Year 2016.

**Summary of Project Changes:** This project is complete and will be closed by the end of the fiscal year.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 6,670,839	\$ 65,382	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,736,222
Muni Sewer Utility - CIP Funding Source	700008	8,481,798	127,580	-	-	-	-	-	-	-	-	8,609,378
<b>Total</b>		<b>\$ 15,152,637</b>	<b>\$ 192,962</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 15,345,600</b>

**Public Utilities**

**Bayview Reservoir Solar Project / S14021**

**Bldg - Other City Facility / Structures**

<b>Council District:</b>	1	<b>Priority Score:</b>	90
<b>Community Planning:</b>	La Jolla	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Lewis, Nikki
<b>Duration:</b>	2015 - 2020		619-533-6653
<b>Improvement Type:</b>	Betterment		nlewis@sanidiego.gov

**Description:** This project includes the design, installation, and interconnection of approximately 300 kilowatts (kw) solar photovoltaic system on the deck of the Bayview Reservoir.

**Justification:** Project complies with the City's Solar Implementation Plan and will provide enough solar electricity to lower the electricity expenses of the facility pump stations by approximately 31%.

**Operating Budget Impact:** The department is anticipating energy cost savings of approximately \$26,490 on an annual basis.

**Relationship to General and Community Plans:** This project is consistent with the La Jolla Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design and construction were awarded in Fiscal Year 2017 and are anticipated to be completed in Fiscal Year 2019.

**Summary of Project Changes:** The total project cost decreased by \$100,000. In Fiscal Year 2019, the City Council authorized the deappropriation of \$100,000. This project is complete and will be closed by the end of the fiscal year.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Energy Conservation Program CIP Fund	200225	\$ 325,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 325,000
Water Utility - CIP Funding Source	700010	860,490	39,510	-	-	-	-	-	-	-	-	900,000
<b>Total</b>		<b>\$ 1,185,489</b>	<b>\$ 39,510</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,225,000</b>

**Operating Budget Impact**

Department - Fund	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
<b>Metro Wastewtr Metro - WATER UTILITY - CIP FUNDING SOURCE</b>	<b>FTEs</b>	0.00	0.00	0.00	0.00
<b>Metro Wastewtr Metro - WATER UTILITY - CIP FUNDING SOURCE</b>	<b>Total Impact \$</b>	(26,490)	(26,490)	(26,490)	(26,490)



**Public Utilities**

**Catalina 12inch Cast Iron Mains / S12008**

**Water - Distribution Sys - Transmission**

**Council District:** 2  
**Community Planning:** Peninsula  
**Project Status:** Continuing  
**Duration:** 2014 - 2020  
**Improvement Type:** Replacement

**Priority Score:** 98  
**Priority Category:** High  
**Contact Information:** Salem, Nicole  
 619-533-7443  
 nsalem@sandiego.gov

**Description:** This project will replace and install approximately 16,000 linear feet of existing cast iron (CI) pipeline with PVC pipeline and cement mortar lined and coated steel pipeline (CMLCS) on Catalina Blvd. The scope of work includes but is not limited to replacing the Catalina Pump Station 16-inch CI discharge pipeline with a 16-inch CMLCS pipeline; installing a 24-inch CMLCS from the proposed 16-inch CMLCS pump station discharge pipeline to the proposed Catalina Standpipe inlet; installing a 16-inch PVC from Catalina Standpipe to DuPont Street; installing a 24-inch CMLCS pipeline from Catalina Standpipe to Garden Lane.

**Justification:** This project will replace cast iron pipe, provide supply reliability to the Catalina Pump Station service area, and improve water quality.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2014 and was completed in Fiscal Year 2016. Construction began in Fiscal Year 2016 and was completed in Fiscal Year 2019.

**Summary of Project Changes:** The total project cost increased by \$490,000 due to scope revisions. Additionally, in Fiscal Year 2019, the City Council authorized the appropriation of \$490,000. This project will be closed by the end of the fiscal year.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
PFFA-Water Rev Bonds Series 2016A	700095	\$ 3,433	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,433
Water Utility - CIP Funding Source	700010	12,314,760	651,807	-	-	-	-	-	-	-	-	12,966,567
<b>Total</b>		<b>\$ 12,318,193</b>	<b>\$ 651,806</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 12,970,000</b>

**Public Utilities**

**Chollas Building / S11025**

**Bldg - Operations Facility / Structures**

<b>Council District:</b>	4	<b>Priority Score:</b>	77
<b>Community Planning:</b>	Mid-City: Eastern Area	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Lewis, Nikki
<b>Duration:</b>	2010 - 2021		619-533-6653
<b>Improvement Type:</b>	Replacement		nlewis@sanidiego.gov

**Description:** This project will construct two new buildings: one two-story building for administration staff and a one-story maintenance shop. In addition, new compartment material storage bins will be constructed.

**Justification:** This project will allow for Water Operations Division to consolidate their staff in one central facility. The existing facility is not adequate for current needs and has surpassed the intended useful life of the structure.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the existing use as referenced in Mid-City Area Community Plan.

**Schedule:** Design and construction began in Fiscal Year 2017 and are anticipated to be completed in Fiscal Year 2020.

**Summary of Project Changes:** The total project cost increased by \$2.7 million for Fiscal Year 2020 due to encountering unforeseen hazardous materials during construction. Additionally, in Fiscal Year 2019, the City Council authorized the appropriation of \$700,000.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 24,542,821	\$ 16,383,573	\$ 2,700,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43,626,395
Water Utility Operating Fund	700011	250,475	-	-	-	-	-	-	-	-	-	250,475
<b>Total</b>		<b>\$ 24,793,296</b>	<b>\$ 16,383,573</b>	<b>\$ 2,700,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 43,876,870</b>

**Public Utilities**

**Cielo & Woodman Pump Station / S12012**

**Bldg - Water - Pump Stations**

<b>Council District:</b>	4	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Southeastern (Encanto Neighborhoods)	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Ammerlahn, Parita
<b>Duration:</b>	2014 - 2023		619-533-6651
<b>Improvement Type:</b>	Expansion		dvanmartin@sandiego.gov

**Description:** This project provides for the replacement of the Cielo and Woodman Pump Station (PS) with a new PS with a total capacity of 11.09 million gallons per day to improve efficiency and reliability, including a backup generator. The Cielo and Woodman Pump Station works in conjunction with the Paradise Mesa Standpipe and three pressure regulating stations which are fed by San Diego County Water Authority connection SD#19.

**Justification:** This project will replace a deteriorating pump station facility and cast iron mains that lead to the station.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Southeastern (Encanto Neighborhoods) Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2015 and is anticipated to be completed in Fiscal Year 2020. Construction is scheduled to begin in Fiscal Year 2021 and is anticipated to be completed in Fiscal Year 2023.

**Summary of Project Changes:** The project cost and schedule have been updated for Fiscal Year 2020. The total project cost increased by \$200,000 due to a scope change. Additionally, in Fiscal Year 2019, the City Council authorized the deappropriation of \$4.0 million.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,015,401	\$ 1,662,598	\$ -	\$ -	\$ 1,200,000	\$ 2,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ 6,878,000
<b>Total</b>		<b>\$ 1,015,401</b>	<b>\$ 1,662,598</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,200,000</b>	<b>\$ 2,000,000</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,878,000</b>

**Public Utilities**

**Corrosion Control / AKA00001**

**Water - Distribution Sys - Transmission**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for renovating or replacing deteriorating corrosion control and monitoring systems throughout the City.

**Justification:** Deteriorating corrosion control and monitoring systems are in need of rehabilitation. This annual allocation provides for an ongoing program to rehabilitate over 600 existing corrosion protection stations.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 208,249	\$ 271,535	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	479,784
<b>Total</b>		<b>\$ 208,249</b>	<b>\$ 271,535</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>479,784</b>

**Public Utilities**

**El Monte Pipeline No 2 / S10008**

**Water - Distribution Sys - Distribution**

<b>Council District:</b>	7	<b>Priority Score:</b>	86
<b>Community Planning:</b>	Navajo	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Ammerlahn, Parita
<b>Duration:</b>	2018 - 2025		619-533-5105
<b>Improvement Type:</b>	Replacement - Rehab		bvitelle@sandiego.gov

**Description:** This project consists of the replacement of two pipe segments as well as the repair of the Grossmont tunnel liner. This project also includes spot repair of pipe walls and joints for the pipeline and raising the air release and the air/vacuum relief valves above grade.

**Justification:** The replacement and repairs are needed to mitigate the potential of a pipeline failure and reduce leakage. The project allows for more reliable operation of the pipeline and therefore facilitate water transports between the San Vicente and El Capitan Reservoir to Lake Murray and the Alvarado Water Treatment Plant.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Navajo Community Plan and is in conformance with the City's General Plan.

**Schedule:** Condition assessment began in Fiscal Year 2014 and was completed in Fiscal Year 2016. Design began in Fiscal Year 2018 and is anticipated to be completed in Fiscal Year 2021. Construction is scheduled to start in Fiscal Year 2021 and is anticipated to be completed in Fiscal Year 2023.

**Summary of Project Changes:** The total project cost increased by \$2.9 million due to additions to project scope. Additionally, the project schedule has been updated for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,843,805	\$ 1,103,215	\$ 500,000	\$ -	\$ 2,000,000	\$ 2,200,000	\$ 3,892,001	\$ -	\$ -	\$ -	\$ 12,539,021
Water Utility Operating Fund	700011	979	-	-	-	-	-	-	-	-	-	979
<b>Total</b>		<b>\$ 2,844,784</b>	<b>\$ 1,103,215</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 2,000,000</b>	<b>\$ 2,200,000</b>	<b>\$ 3,892,001</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 12,540,001</b>

**Public Utilities**

**EMTS Boat Dock Esplanade / S00319**

**Bldg - MWWD - Laboratories**

**Council District:** 2  
**Community Planning:** Peninsula  
**Project Status:** Continuing  
**Duration:** 2018 - 2023  
**Improvement Type:** New

**Priority Score:** 81  
**Priority Category:** Medium  
**Contact Information:** Choi, Jong  
 619-533-5493  
 jchoi@sandiego.gov

**Description:** This project provides for the design and construction of the Environmental Monitoring and Technical Services (EMTS) Laboratory Boat esplanade. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** Per the terms of the land transfer from the Federal Government, Metropolitan Wastewater Department (MWWD) designed and constructed a 40,000 square foot ocean monitoring laboratory which is now in operation. This project will fulfill the City's commitment to develop the esplanade as required.

**Operating Budget Impact:** Non-personnel expenditures for lease of boat dock space at Driscoll's Wharf will be decreased by \$14,040 when the project is complete.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula Community Plan and is in conformance with the City's General Plan.

**Schedule:** The design will be completed in Fiscal Year 2020 and construction is anticipated to begin in Fiscal Year 2021. The design and construction of the boat dock is currently on hold pending habitat mitigation issues.

**Summary of Project Changes:** The total project cost increased by \$1.4 million in Fiscal Year 2020 due to scope variations, updates to engineering estimates and additional regulatory requirements. The project schedule has been updated for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 238,976	\$ 779,558	\$ 400,000	\$ -	\$ 1,430,000	\$ 582,316	\$ -	\$ -	\$ -	\$ -	\$ 3,430,851
<b>Total</b>		<b>\$ 238,976</b>	<b>\$ 779,558</b>	<b>\$ 400,000</b>	<b>\$ -</b>	<b>\$ 1,430,000</b>	<b>\$ 582,316</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 3,430,851</b>

**Operating Budget Impact**

Department - Fund	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
<b>Metro Wastewtr Metro - METRO SEWER UTILITY - CIP FUNDING SOURCE</b>	<b>FTEs</b>	0.00	0.00	0.00	0.00
<b>Metro Wastewtr Metro - METRO SEWER UTILITY - CIP FUNDING SOURCE</b>	<b>Total Impact \$</b>	-	-	(14,040)	(14,040)

**Public Utilities**

**Freeway Relocation / AKB00002**

**Water - Distribution Sys - Distribution**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides funding to relocate water lines in conflict with highway construction zones.

**Justification:** Waterline relocation is required by the State Department of Transportation's effort to expand the State Highway System. Relocation projects are accomplished in conjunction with highway projects scheduled by the State Department of Transportation.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis per Caltrans requests.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$100,000 due to updates to the schedule of sub-projects.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,299,604	\$ 1,290,169	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 2,989,774
<b>Total</b>		<b>\$ 1,299,604</b>	<b>\$ 1,290,169</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ 100,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,989,774</b>

**Public Utilities**

**Groundwater Asset Development Program / ABM00001**

**Bldg - Water - Wells**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Adrian, George
<b>Duration:</b>	2010 - 2024		619-533-4680
<b>Improvement Type:</b>	Replacement		gadrian@sandiego.gov

**Description:** This annual allocation provides for investigation work related to legal, technical, regulatory, and water quality issues; and for the planning, design, and construction of groundwater facilities to increase the local water supply.

**Justification:** The City imports 85 percent of its water from the Colorado River and the State Water Project. The City has access to several under-utilized groundwater assets that could be developed to supply new yield, seasonal storage, or carryover storage.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is in compliance with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Research, exploration, and demonstration began in Fiscal Year 2001 and continued through Fiscal Year 2014. Design and construction of sub-projects identified in the research/exploration/demonstration phase began in Fiscal Year 2012 and will continue through Fiscal Year 2024.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$900,000 due to updates to the schedule of sub-projects.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,361,896	\$ 1,465,709	\$ 1,000,000	\$ -	\$ 2,642,979	\$ -	\$ 395,487	\$ 1,165,013	\$ -	\$ -	\$ 8,031,084
<b>Total</b>		<b>\$ 1,361,896</b>	<b>\$ 1,465,709</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ 2,642,979</b>	<b>\$ -</b>	<b>\$ 395,487</b>	<b>\$ 1,165,013</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 8,031,084</b>



## Public Utilities

### Harbor Drive Trunk Sewer / S18006

### Wastewater - Collection Sys - Trunk Swr

<b>Council District:</b>	3	<b>Priority Score:</b>	89
<b>Community Planning:</b>	Barrio Logan	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2016 - 2023		619-533-5105
<b>Improvement Type:</b>	Expansion		bvitelle@sandiego.gov

**Description:** This project will upsize the existing 12-inch, 15-inch, 18-inch, and 24-inch Harbor Drive Trunk Sewer from 12th Avenue and Imperial Avenue to Sewer Pump Station #5 (Beardsley Street and Harbor Drive) with 18-inch, 21-inch, and 30-inch diameter sewer mains for a total length of 4,650 lineal feet.

**Justification:** The Harbor Drive Trunk Sewer is constructed of Techite pipe, which is known to be a high risk for catastrophic failure. The replacement of this trunk sewer will address the structural integrity of the existing sewer mains and provide additional capacity to accommodate the future flows.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Barrio Logan Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2016 and is scheduled to be completed in Fiscal Year 2020. Construction is scheduled to begin in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2021.

**Summary of Project Changes:** This is a newly published project for Fiscal Year 2020. This project was converted from RD16001.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 1,119,285	\$ 3,671,964	\$ 5,000,000	\$ -	\$ 11,253,751	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,045,001
<b>Total</b>		<b>\$ 1,119,285</b>	<b>\$ 3,671,964</b>	<b>\$ 5,000,000</b>	<b>\$ -</b>	<b>\$ 11,253,751</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 21,045,001</b>

**Public Utilities**

**Instrumentation and Control / AKB00007**

**Water - Distribution Sys - Distribution**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This Annual Allocation provides for replacement and upgrades of the existing Supervisory Control and Data Acquisition (SCADA) equipment for the water distribution system.

**Justification:** The existing control system is outdated and exceeded its life cycle. This replacement will improve and enhance the control system capabilities as well as update the system to the current technology.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is in compliance with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$500,000 due to updates to the schedule of sub-projects.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ -	\$ 500,000	\$ -	\$ -	\$ 500,000	\$ 500,000	\$ 350,000	\$ -	\$ -	\$ -	\$ 1,850,000
<b>Total</b>		\$ -	\$ 500,000	\$ -	\$ -	\$ 500,000	\$ 500,000	\$ 350,000	\$ -	\$ -	\$ -	\$ 1,850,000

**Public Utilities**

**Kearny Mesa Trunk Sewer / S20000**

**Wastewater - Collection Sys - Trunk Swr**

<b>Council District:</b>	6	<b>Priority Score:</b>	77
<b>Community Planning:</b>	Kearny Mesa	<b>Priority Category:</b>	Low
<b>Project Status:</b>	New	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2019 - 2025		858-292-6425
<b>Improvement Type:</b>	Replacement - Rehab		tphung@sandiego.gov

**Description:** This project involves the repair and rehabilitation of 7.89 miles of existing 12-inch to 36-inch deteriorated sewer pipes, repair/rehabilitation of 56 manholes, and replacement of 2.18 miles of pipes ranging from 12-inch to 33-inch and 24 manholes. The scope also includes the abandonment of 3,012 feet of the existing 12-inch sewer mains, and 8 manholes located in the northwest corridor of 52 Freeway and Interstate 15.

**Justification:** Replace and rehabilitate deteriorated sewer pipes and manholes.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Kearny Mesa, Serra Mesa, and Mission Valley Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design is scheduled to begin in Fiscal Year 2020.

**Summary of Project Changes:** This is a newly published project for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ -	\$ -	\$ 500,000	\$ -	\$ 2,000,000	\$ 5,000,000	\$ 10,000,000	\$ 6,700,000	\$ -	\$ -	\$ 24,200,000
<b>Total</b>		\$ -	\$ -	\$ 500,000	\$ -	\$ 2,000,000	\$ 5,000,000	\$ 10,000,000	\$ 6,700,000	\$ -	\$ -	\$ 24,200,000

**Public Utilities**

**La Jolla Scenic Drive 16inch Main / S12009**

**Water - Distribution Sys - Transmission**

<b>Council District:</b>	1	<b>Priority Score:</b>	82
<b>Community Planning:</b>	La Jolla	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Salem, Nicole
<b>Duration:</b>	2015 - 2020		619-533-7443
<b>Improvement Type:</b>	Expansion		nsalem@sandiego.gov

**Description:** This project provides for replacement of 6-inch, 8-inch, and 12-inch pipelines with 15,635 linear feet of 16-inch pipe from the Soledad Reservoir that travels south along La Jolla Scenic Drive South; continues onto La Jolla Rancho Road, La Jolla Mesa Drive, Muirlands Drive, and El Camino Del Teatro; rejoins Muirlands Drive and Nautilus Street; and terminates at Fairway Road and the Muirlands Pump Station (PS). It will connect the Muirlands PS to the south Soledad Muirlands (725 Zone) to provide backup supply to the 725 Zone, and to solve fire flow deficiency and maintain peak pressures.

**Justification:** The current distribution grid has insufficient capacity to meet fire flow and is a bottleneck that leads to two isolated portions of the 725 Zone. If either of the pump/reservoir tandems that feed the zone go out of service, feed from the other tandem could not effectively be moved across the zone.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the La Jolla Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2015 and was completed in Fiscal Year 2018. Construction began in Fiscal Year 2018 and is anticipated to be completed in Fiscal Year 2020.

**Summary of Project Changes:** The total project cost increased by \$316,000 due to an additional task added for construction management services. Additionally, the project schedule has been updated for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 5,649,260	\$ 3,582,739	\$ 316,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,548,000
<b>Total</b>		<b>\$ 5,649,260</b>	<b>\$ 3,582,739</b>	<b>\$ 316,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 9,548,000</b>

## Public Utilities

### La Jolla View Reservoir / S15027

### Water - Distribution Sys - Distribution

<b>Council District:</b>	1	<b>Priority Score:</b>	80
<b>Community Planning:</b>	La Jolla	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2012 - 2024		619-533-6651
<b>Improvement Type:</b>	Expansion		dvanmartin@sandiego.gov

**Description:** This project will provide for the construction of a new 3.11 million gallons (MG) prestressed concrete reservoir. Also, it will install 2,800 feet of 30-inch pipeline and demolish the old La Jolla View Reservoir and the La Jolla Exchange Place Reservoir and Pump Station.

**Justification:** This project will replace the existing La Jolla View Reservoir which will improve water quality, set new reservoir to appropriate health guidelines, and improve fire flow capacity in the 610 Zone.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the La Jolla Community Plan and is in compliance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2013 and is scheduled to be completed in Fiscal Year 2020. Environmental Impact Report is required due to night work and other impacts created by this project. Construction is scheduled to begin in Fiscal Year 2021 and will be completed in Fiscal Year 2023.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,766,676	\$ 1,658,323	\$ 955,001	\$ -	\$ 11,349,999	\$ 10,270,314	\$ -	\$ -	\$ -	\$ -	\$ 27,000,314
<b>Total</b>		<b>\$ 2,766,676</b>	<b>\$ 1,658,323</b>	<b>\$ 955,001</b>	<b>\$ -</b>	<b>\$ 11,349,999</b>	<b>\$ 10,270,314</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 27,000,314</b>

## Public Utilities

### Large Diameter Water Transmission PPL / AKA00003

### Water - Distribution Sys - Transmission

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation allows for the replacement of 16-inch and larger diameter water pipelines at various locations throughout the City.

**Justification:** This annual allocation provides for the replacement of large diameter pipelines that are in a deteriorated condition or have reached the end of their service life.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** In Fiscal Year 2019, the City Council authorized the deappropriation of \$2.0 million. The annual project cost for Fiscal Year 2020 decreased by \$4.2 million due to updates to the schedule of sub-projects.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 21,249,521	\$ 24,256,904	\$ 5,750,295	\$ -	\$ 3,864,841	\$ 16,214,465	\$ 3,969,947	\$ 2,360,947	\$ -	\$ -	\$ 77,666,921
<b>Total</b>		<b>\$ 21,249,521</b>	<b>\$ 24,256,904</b>	<b>\$ 5,750,295</b>	<b>\$ -</b>	<b>\$ 3,864,841</b>	<b>\$ 16,214,465</b>	<b>\$ 3,969,947</b>	<b>\$ 2,360,947</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 77,666,921</b>

**Public Utilities**

**Little McGonigle Ranch Road Pipeline / S00069**

**Water - Distribution Sys - Transmission**

<b>Council District:</b>	1	<b>Priority Score:</b>	70
<b>Community Planning:</b>	Del Mar Mesa; Pacific Highlands Ranch	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Wilson, Leonard
<b>Duration:</b>	2004 - 2020		619-446-5421
<b>Improvement Type:</b>	Expansion		llwilson@sandiego.gov

**Description:** This reimbursement project provides for the construction of approximately 15,800 linear feet of 30-inch diameter water transmission pipeline in Carmel Mountain Road and Little McGonigle Ranch Road within the Del Mar Mesa and Pacific Highlands Ranch communities to provide capacity for both Del Mar Mesa and Pacific Highlands Ranch. Project was divided in 5 Phases, Phase 1 (Carmel Valley Road within SR-56/Carmel Valley Road Interchange within Right-of-Way), Phase 2 (Carmel Valley Road from SR-56/Carmel Valley Road Interchange to Del Mar Heights Road), Phase 3 (Little McGonigle Ranch Road from interchange to Del Mar Mesa Road), Phase 4 (Little McGonigle Ranch Road from Del Mar Mesa Road to Devino Court) and Phase 5 (Carmel Mountain Road from Devino Court to Del Mar Mesa Community Boundary).

**Justification:** The pipeline is required to provide capacity in the water system to adequately supply the demand resulting from the build-out of the Del Mar Mesa and Pacific Highlands Ranch communities.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Del Mar Mesa and Pacific Highlands Ranch Community Plans and is in conformance with the City's General Plan.

**Schedule:** Phase 1, Phase 4, and Phase 5 are complete. Phase 2 will be completed in Fiscal Year 2019. The design of Phase 3 is not scheduled at this time.

**Summary of Project Changes:** The project schedule has been updated for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Del Mar Mesa FBA	400089	\$ 756,999	\$ 743,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
Pacific Highlands Ranch FBA	400090	3,742,425	757,575	-	-	-	-	-	-	-	-	4,500,000
<b>Total</b>		<b>\$ 4,499,424</b>	<b>\$ 1,500,575</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 6,000,000</b>

## Public Utilities

### Lower Otay Outlet Tower / S12018

### Bldg - Water - Reservoirs/Dams

<b>Council District:</b>	Non-City	<b>Priority Score:</b>	89
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Hong, Vien
<b>Duration:</b>	2014 - 2025		858-292-6473
<b>Improvement Type:</b>	Betterment		vhong@sandiego.gov

**Description:** This project provides for the upgrade/replacement of the Lower Otay Outlet Tower.

**Justification:** Seismic analysis concluded that the tower's concrete has an overstress in flexural tension. Both the tower and the tower foundation are in danger of failure.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is outside the City limits and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design is scheduled to begin in Fiscal Year 2020 and be completed in Fiscal Year 2025. Construction is being evaluated and may be combined with another project, S00044 - Lower Otay Reservoir Emergency Outlet Improvements.

**Summary of Project Changes:** The total project cost increased by \$655,053 in Fiscal Year 2020.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 301,015	\$ 1,689,795	\$ -	\$ -	\$ 655,053	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,645,864
<b>Total</b>		<b>\$ 301,015</b>	<b>\$ 1,689,795</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 655,053</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,645,864</b>



## Public Utilities

### Lower Otay Reservoir Emer Outlet Improve / S00044

### Bldg - Water - Reservoirs/Dams

<b>Council District:</b>	8	<b>Priority Score:</b>	75
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2003 - 2025		858-292-6425
<b>Improvement Type:</b>	Betterment		tphung@sandiego.gov

**Description:** This project provides for the installation of two sluice gates on the auxiliary spillway to improve drawdown capacity.

**Justification:** The State Department of Safety of Dams requires an emergency draw-down capability of 10 percent of reservoir capacity in 10 days. Lower Otay Reservoir requires 56 days for 10 percent drawdown.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is outside of the City limits and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2001 and was completed in Fiscal Year 2018. Project may be combined with project S12018 - Lower Otay Outlet Tower.

**Summary of Project Changes:** The project schedule has been updated for Fiscal Year 2020.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 403,219	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	403,219
Water Utility - CIP Funding Source	700010	398,334	135,081	-	-	-	-	-	-	-	-	533,415
Water Utility Operating Fund	700011	243,337	-	-	-	-	-	-	-	-	-	243,337
<b>Total</b>		<b>\$ 1,044,890</b>	<b>\$ 135,080</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>1,179,971</b>

Public Utilities

MBC Dewatering Centrifuges Replacement / S00339

Bldg - MWWD - Treatment Plants

<b>Council District:</b>	6	<b>Priority Score:</b>	83
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2012 - 2020		619-533-5105
<b>Improvement Type:</b>	Expansion		bvitelle@sandiego.gov

**Description:** This project provides for the replacement of six of the eight existing dewatering centrifuges with six larger capacity units to better handle biosolid flows during maintenance of the centrifuges and its associated equipment and to handle larger future biosolid flows. The existing units are also near the end of their useful life. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** This project will increase the production capacity of the dewatering centrifuges to accommodate plant shutdowns for maintenance and construction, to accommodate future flows, and to address diverse types of constraining operational factors that limit current capacity. To achieve the required capacity, the existing dewatering centrifuge units must be replaced with larger units.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is located on federal property and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2014 and the installation of the six centrifuges was completed in Fiscal Year 2019.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020. The project is complete and will be close by the end of the fiscal year.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 934	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 934
Metro Sewer Utility - CIP Funding Source	700009	11,268,182	840,702	-	-	-	-	-	-	-	-	12,108,884
Metropolitan Sewer Utility Fund	700001	12,625	-	-	-	-	-	-	-	-	-	12,625
<b>Total</b>		<b>\$ 11,281,741</b>	<b>\$ 840,702</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 12,122,443</b>

**Public Utilities**

**MBC Equipment Upgrades / S17013**

**Bldg - MWWd - Treatment Plants**

<b>Council District:</b>	6	<b>Priority Score:</b>	85
<b>Community Planning:</b>	Kearny Mesa	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Barhoumi, Amer
<b>Duration:</b>	2017 - 2024		858-292-6364
<b>Improvement Type:</b>	Replacement		abarhoumi@sandiego.gov

**Description:** Project consists of replacing aging equipment throughout various process areas to ensure the plant operates reliably. Improvements include installation of new raw solids feed pumps, replacement of existing thickening centrifuges, upgrades to anaerobic digesters, improvements to the sludge dewatering system, and other upgrades.

**Justification:** To ensure that the plant operates reliably and efficiently, process equipment associated with anaerobic digestion and sludge dewatering must be replaced.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is in compliance with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Design began in June 2017 and was completed in August 2018. Construction is scheduled to begin in April 2019 and is anticipated to be completed in Fiscal Year 2024.

**Summary of Project Changes:** The total project cost increased by \$30.3 million in Fiscal Year 2020 due to the completion of design and the review of plans, specifications, and schedule by the project's construction management consultants. Additionally, in Fiscal Year 2019, the City Council authorized the appropriation of \$1.5 million.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 75,340	\$ 3,724,659	\$ 11,266,772	\$ -	\$ 13,716,112	\$ 8,583,177	\$ 3,398,102	\$ -	\$ -	\$ -	\$ 40,764,163
<b>Total</b>		<b>\$ 75,340</b>	<b>\$ 3,724,659</b>	<b>\$ 11,266,772</b>	<b>\$ -</b>	<b>\$ 13,716,112</b>	<b>\$ 8,583,177</b>	<b>\$ 3,398,102</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 40,764,163</b>

## Public Utilities

### Metro Treatment Plants / ABO00001

### Bldg - MWW - Treatment Plants

<b>Council District:</b>	2 6 7 8	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Peninsula; University; Tijuana River Valley	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sanidiego.gov

**Description:** This annual allocation provides for replacement or improvements of facilities at Metro Treatment Plants: Point Loma Wastewater Treatment Plant (PLWTP), North City Water Reclamation Plant (NCWRP), South Bay Water Reclamation Plant (SBWRP), and Metro Biosolids Center (MBC). Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** Various facilities require replacement due to increasing wastewater flows and to be compliant with current regulatory requirements. This annual allocation will be considered an enhancement to the facility and does not include operation and maintenance.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula, Tijuana River Valley, and University community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** In Fiscal Year 2019, the City Council authorized the de-appropriation of \$1.5 million. Additionally, the annual project cost for Fiscal Year 2020 increased by \$22,656 due to updates to the schedule of sub-projects.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 3,513,900	\$ 6,956,165	\$ 2,014,156	\$ -	\$ 4,801,687	\$ 2,575,529	\$ 3,088,187	\$ 1,534,328	\$ -	\$ -	\$ 24,483,952
<b>Total</b>		<b>\$ 3,513,900</b>	<b>\$ 6,956,165</b>	<b>\$ 2,014,156</b>	<b>\$ -</b>	<b>\$ 4,801,687</b>	<b>\$ 2,575,529</b>	<b>\$ 3,088,187</b>	<b>\$ 1,534,328</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 24,483,952</b>

**Public Utilities**

**Metropolitan System Pump Stations / ABP00002**

**Bldg - MWWd - Pump Stations**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for comprehensive upgrades, design modifications, and renovations or replacement of equipment such as pumps, valves, tanks, controls, odor control systems, etc. at Metropolitan System Pump Stations 1, 2, Otay River, and Grove Avenue. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** These improvements will allow pump stations to run more efficiently and increase the reliability of the Metropolitan Wastewater System.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$807,840 due to updates to the schedule of sub-projects.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 613,347	\$ 606,037	\$ -	\$ -	\$ 1,024,394	\$ 1,805,478	\$ 8,448,073	\$ 8,170,619	\$ -	\$ -	\$ 20,667,948
<b>Total</b>		<b>\$ 613,347</b>	<b>\$ 606,037</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,024,394</b>	<b>\$ 1,805,478</b>	<b>\$ 8,448,073</b>	<b>\$ 8,170,619</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 20,667,948</b>

## Public Utilities

### Metropolitan Waste Water Department Trunk Sewers / AJB00001

### Wastewater - Collection Sys - Trunk Swr

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for the replacement of trunk sewers at various locations, including canyons, within the City limits. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** This annual allocation provides for the upgrading of trunk sewers, to improve the level of service to residents of the City of San Diego, and to comply with regulatory agencies by reducing the possibility of sewer spills.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$255,659 due to updates to the schedule of sub-projects.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 8,660,281	\$ 3,832,494	\$ -	\$ -	\$ 602,720	\$ 1,139,808	\$ 3,389,893	\$ 6,058,069	\$ -	\$ -	\$ 23,683,265
Metropolitan Sewer Utility Fund	700001	23,059	-	-	-	-	-	-	-	-	-	23,059
Muni Sewer Utility - CIP Funding Source	700008	4,920,287	7,101,898	4,424,710	-	3,164,125	15,104,417	15,557,368	10,617,792	-	-	60,890,597
<b>Total</b>		<b>\$ 13,603,627</b>	<b>\$ 10,934,392</b>	<b>\$ 4,424,710</b>	<b>\$ -</b>	<b>\$ 3,766,845</b>	<b>\$ 16,244,225</b>	<b>\$ 18,947,261</b>	<b>\$ 16,675,861</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 84,596,921</b>

**Public Utilities**

**Miramar Clearwell Improvements / S11024**

**Bldg - Water - Standpipes**

<b>Council District:</b>	5	<b>Priority Score:</b>	100
<b>Community Planning:</b>	Scripps Miramar Ranch; Miramar Ranch North	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2012 - 2022		619-533-5105
<b>Improvement Type:</b>	Replacement		bvitelle@sandiego.gov

**Description:** This project will construct two new potable water storage clearwells, associated piping, and facilities for a total storage capacity of 58.3 million gallons (MG), demolish Clearwell Nos. 1 and 2, and associated piping and facilities, construct a new chlorine contact chamber with an adjoining lift station for a maximum plant capacity of 215 million gallons per day (mgd), construct a new maintenance building, new guard house, and install a one megawatt Photovoltaic System on the deck of Clearwell No. 2.

**Justification:** The existing clearwells were determined to have significant structural stability concerns. The lift station will improve filter performance and increase hydraulic grade line to 712 feet.

**Operating Budget Impact:** The department is currently assessing the operational impacts of the expansion to the treatment facility. Operational costs will be revised as all amenities and unique site characteristics are considered.

**Relationship to General and Community Plans:** This project is consistent with the Scripps Miramar Ranch Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2013 and was completed in Fiscal Year 2016. Construction began in Fiscal Year 2016 and is anticipated to be completed in Fiscal Year 2021.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 79,916,095	\$ 30,492,353	\$ 9,915,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,324,248
Water Utility Operating Fund	700011	4,495	-	-	-	-	-	-	-	-	-	4,495
<b>Total</b>		<b>\$ 79,920,590</b>	<b>\$ 30,492,353</b>	<b>\$ 9,915,800</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 120,328,744</b>

**Public Utilities**

**MOC Complex Solar Project / S14022**

**Bldg - Other City Facility / Structures**

<b>Council District:</b>	6	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Kearny Mesa	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Lewis, Nikki
<b>Duration:</b>	2015 - 2020		619-533-6653
<b>Improvement Type:</b>	Betterment		nlewis@sanidiego.gov

**Description:** This project includes the design, installation, and interconnection of approximately 500 kilowatts (kw) worth of solar photovoltaics at various locations throughout the Metropolitan Operations Complex (MOC) in Kearny Mesa.

**Justification:** Project complies with the City's Solar Implementation Plan and will provide solar electricity to offset energy used at the MOC Complex buildings when averaged over the year.

**Operating Budget Impact:** The department is anticipating energy savings from the project and is currently assessing the operational impacts.

**Relationship to General and Community Plans:** This project is consistent with the Kearny Mesa Community Plan and is in conformance with the City's General Plan and helps implement the City's Climate Action Plan.

**Schedule:** Design and construction was awarded in Fiscal Year 2017 and are anticipated to be completed in Fiscal Year 2019.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020. The project is complete and will be closed by the end of the fiscal year.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Energy Conservation Program CIP Fund	200225	\$ 907,781	\$ 67,218	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 975,000
Metro Sewer Utility - CIP Funding Source	700009	270,953	86,047	-	-	-	-	-	-	-	-	357,000
Muni Sewer Utility - CIP Funding Source	700008	658,029	208,971	-	-	-	-	-	-	-	-	867,000
Water Utility - CIP Funding Source	700010	361,270	114,730	-	-	-	-	-	-	-	-	476,000
<b>Total</b>		<b>\$ 2,198,033</b>	<b>\$ 476,966</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,675,000</b>

**Operating Budget Impact**

Department - Fund	FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
<b>Metro Wastewtr Metro - WATER UTILITY - CIP FUNDING SOURCE</b>	<b>FTEs</b>	0.00	0.00	0.00	0.00
<b>Metro Wastewtr Metro - WATER UTILITY - CIP FUNDING SOURCE</b>	<b>Total Impact \$</b>	(81,500)	(81,500)	(81,500)	(81,500)



**Public Utilities**

**Montezuma/Mid-City Pipeline Phase II / S11026**

**Water - Distribution Sys - Distribution**

<b>Council District:</b>	7 9	<b>Priority Score:</b>	98
<b>Community Planning:</b>	College Area; Mid-City; Eastern Area; Navajo	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2013 - 2023		619-533-5105
<b>Improvement Type:</b>	Expansion		bvitelle@sandiego.gov

**Description:** This project will construct a new 66-inch pipeline from the Alvarado Water Treatment Plant Clearwells to the existing 48-inch Mid-City Pipeline, which crosses Highway 8. Approximate pipeline length is 5,685 linear feet. This project also includes street resurfacing of 70th Street and Lake Murray Boulevard as part of a future reimbursement agreement with the City of La Mesa.

**Justification:** This project will give complete redundancy to the Trojan Pipeline and will add transmission capacity to all of San Diego, south of Highway 8. The project will provide a back-up supply for the aging 54-inch Trojan Pipeline that currently supplies the Mid-City Pipeline west of the 63rd Street inter-tie, a second supply line to the largest region of the Alvarado Water Treatment Plant service area, and a back-up service that will allow the Trojan Pipeline to be removed from service for inspection. In addition, the project provides connections for a new 69th and Mohawk Pump Station to become the lead supply to the Redwood Village (645 Zone).

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the College Area, Navajo, Mid-City, and Eastern Area Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2013 and was completed in Fiscal Year 2018. Easement acquisition began in Fiscal Year 2017 and was completed in Fiscal Year 2018. Construction will begin in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2022.

**Summary of Project Changes:** The total project cost increased by \$21.1 million due to project scope changes and current construction industry estimates. Additionally, the project schedule has been updated for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 3,201,532	\$ 14,601,555	\$ -	\$ -	\$ 26,145,000	\$ 8,536,800	\$ -	\$ -	\$ -	\$ -	\$ 52,484,888
Water Utility Operating Fund	700011	215,112	-	-	-	-	-	-	-	-	-	215,112
<b>Total</b>		<b>\$ 3,416,644</b>	<b>\$ 14,601,555</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 26,145,000</b>	<b>\$ 8,536,800</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 52,700,000</b>

## Public Utilities

### Morena Pipeline / S16027

### Water - Distribution Sys - Transmission

<b>Council District:</b>	2 6 7	<b>Priority Score:</b>	92
<b>Community Planning:</b>	Linda Vista; Clairemont Mesa; Mission Valley	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Batta-Hajjawi, Nabil
<b>Duration:</b>	2015 - 2023		858-614-4524
<b>Improvement Type:</b>	Expansion		nbatta@sandiego.gov

**Description:** This project will replace 19,765 feet of existing cast iron and asbestos cement 16-inch pipeline with 16-inch PVC and install 17,440 feet of new 36-inch steel pipeline (CML & C) along Morena Blvd from Friars Road to Balboa Avenue. Total length of this project is 38,012 feet.

**Justification:** This project was driven by the need to provide redundant transmission capacity to the coastal regions of Pacific Beach and La Jolla. This pipeline will also allow the beach areas to be fed by the Alvarado Water Treatment Plant which helps maximize local water resources.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with Linda Vista, Mission Valley, and Clairemont Mesa community plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2016 and was completed in Fiscal Year 2019. Construction is scheduled to begin in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2022.

**Summary of Project Changes:** In Fiscal Year 2019, the City Council authorized the appropriation of 13.6 million. The total project cost increased by \$46.2 million due to added costs for the relocation of SDG&E utilities and \$6.0 million due to the completion of design and the review of plans, specifications, and schedule by the project's construction management consultants.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water SDG&E Utility Relocation	700105	\$ 13,564,385	\$ -	\$ -	\$ 46,150,972	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 59,715,358
Water Utility - CIP Funding Source	700010	3,495,567	7,502,548	15,364,419	-	14,598,708	3,123,945	85,013	-	-	-	44,170,200
<b>Total</b>		<b>\$ 17,059,952</b>	<b>\$ 7,502,548</b>	<b>\$ 15,364,419</b>	<b>\$ 46,150,972</b>	<b>\$ 14,598,708</b>	<b>\$ 3,123,945</b>	<b>\$ 85,013</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 103,885,558</b>

## Public Utilities

### Morena Reservoir Outlet Tower Upgrade / S00041

### Bldg - Water - Reservoirs/Dams

<b>Council District:</b>	Non-City	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2011 - 2023		858-292-6425
<b>Improvement Type:</b>	Betterment		tphung@sandiego.gov

**Description:** This project replaces the existing outlet tower to meet seismic requirements. It will add a 120-foot long, 6-foot wide maintenance access bridge from the dam to the new outlet tower, enlarge the existing outlet tunnel, and raise the dam crest.

**Justification:** The aging outlet tower components are in need of replacement for safety and cost effective operation. Furthermore, the electrical system needs to be upgraded to meet current standards, provide remote, automated control, and provide safety and better accessibility. The tower is 100 years old and seismically inadequate. This project is mandated by the California Division of Safety of Dams (DSOS).

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is outside of the City limits and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design phase began in Fiscal Year 2012 and is anticipated to be completed in Fiscal Year 2020. Construction is scheduled to begin in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2022.

**Summary of Project Changes:** In Fiscal Year 2019, the City Council authorized the appropriation of \$500,000. Additionally, the project schedule was updated for Fiscal Year 2020.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 322,485	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	322,485
Water Utility - CIP Funding Source	700010	1,935,983	2,206,855	2,000,000	-	11,020,000	9,000,000	-	-	-	-	26,162,839
Water Utility Operating Fund	700011	14,676	-	-	-	-	-	-	-	-	-	14,676
<b>Total</b>		<b>\$ 2,273,144</b>	<b>\$ 2,206,855</b>	<b>\$ 2,000,000</b>	<b>\$ -</b>	<b>\$ 11,020,000</b>	<b>\$ 9,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>26,500,000</b>

## Public Utilities

### NCWRP Improvements to 30 mgd / S17012

### Bldg - MWWWD - Treatment Plants

<b>Council District:</b>	1	<b>Priority Score:</b>	85
<b>Community Planning:</b>	University	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Barhoumi, Amer
<b>Duration:</b>	2017 - 2024		858-292-6364
<b>Improvement Type:</b>	Replacement		abarhoumi@sandiego.gov

**Description:** The North City Water Reclamation Plant (NCWRP) treats wastewater from several San Diego communities and distributes recycled water for irrigation and industrial purposes throughout the surrounding areas. The condition and hydraulic capacity of the existing equipment at the NCWRP has been assessed through the review and examination of the plant design drawings, operation and assessment. It was determined that improvements to the process equipment are needed in order to ensure the facility is capable of operating reliably at its design capacity of 30 million gallons per day (mgd).

**Justification:** This project entails improvements to the process equipment at the NCWRP in order to ensure the facility is capable of operating reliably at its design capacity of 30 mgd.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is in compliance with the University Community Plan and is in conformance with the City's General plan and helps to implement the City's Climate Action Plan.

**Schedule:** Design began in Fiscal Year 2017 and was completed in Fiscal Year 2018. Construction began in Fiscal Year 2019 and is anticipated to be completed in Fiscal Year 2024.

**Summary of Project Changes:** The total project cost increased by \$5.7 million in Fiscal Year 2020 due to the review of plans, specifications, and schedule by the project's construction management consultants.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 1,746,498	\$ 3,943,501	\$ 8,320,539	\$ -	\$ 12,039,230	\$ 6,886,323	\$ 1,473,906	\$ -	\$ -	\$ -	\$ 34,409,998
<b>Total</b>		<b>\$ 1,746,498</b>	<b>\$ 3,943,501</b>	<b>\$ 8,320,539</b>	<b>\$ -</b>	<b>\$ 12,039,230</b>	<b>\$ 6,886,323</b>	<b>\$ 1,473,906</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 34,409,998</b>

**Public Utilities**

**New 16" Water Mains (U-3) / RD15003**

**Water - Distribution Sys - Distribution**

<b>Council District:</b>	5	<b>Priority Score:</b>	N/A
<b>Community Planning:</b>	Torrey Highlands	<b>Priority Category:</b>	N/A
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Abeyta, Angela
<b>Duration:</b>	2015 - 2020		619-533-3674
<b>Improvement Type:</b>	Expansion		aabeyta@sanidiego.gov

**Description:** This project provides for reimbursement to a developer for the construction of approximately 16,636 linear feet of 16-inch diameter water mains within the Camino Del Sur (Watson Ranch Road to Dormouse) and along Carmel Mountain Road from Camino Del Sur to Sundance Avenue. This is Project U-3 in the Torrey Highlands Public Facilities Financing Plan.

**Justification:** This project is required to provide primary distribution facilities to serve the community.

**Operating Budget Impact:** The operations and maintenance funding for this project will be included in the Public Utilities budget.

**Relationship to General and Community Plans:** This project is consistent with the Torrey Highlands Subarea Plan and is in conformance with the City's General Plan.

**Schedule:** A portion of the waterline was completed by a Torrey Highlands developer in Fiscal Year 2008. Construction of two other portions of the Carmel Mountain Road waterline are currently under construction by another Torrey Highlands developer under the terms of an approved reimbursement agreement. The remaining portion of the Camino Del Sur and the Carmel Mountain Road waterline is expected to be completed by the Merge 56 developer as part of a future reimbursement agreement. A new CIP project will be established for this segment.

**Summary of Project Changes:** Project is complete and will be closed by the end of the fiscal year.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Torrey Highlands	400094	\$ 445,758	\$ 779,241	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,225,000
<b>Total</b>		<b>\$ 445,758</b>	<b>\$ 779,241</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,225,000</b>

## Public Utilities

### Otay 1st/2nd PPL West of Highland Avenue / S12016

### Water - Distribution Sys - Transmission

<b>Council District:</b>	3 9	<b>Priority Score:</b>	91
<b>Community Planning:</b>	Mid-City: City Heights; Greater North Park	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2014 - 2022		619-533-5105
<b>Improvement Type:</b>	Replacement		bvitelle@sandiego.gov

**Description:** This project provides for replacement of the Otay 1st and 2nd Pipeline (west of Highland Avenue, along the existing Otay 2nd alignment). It will replace 14,572 linear feet of existing cast iron with a new 36-inch pipeline.

**Justification:** This project will replace the existing deteriorated cast iron pipe. The new pipeline will provide supply reliability and improve water quality.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the City Heights and Greater North Park Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2016 and was completed in Fiscal Year 2019. Construction is scheduled to begin in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2022.

**Summary of Project Changes:** The project schedule has been updated for Fiscal Year 2020. Additionally, in Fiscal Year 2019, the City Council authorized the deappropriation of \$5.0 million.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 3,018,831	\$ 5,794,219	\$ 6,000,000	\$ -	\$ 14,627,449	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,440,500
<b>Total</b>		<b>\$ 3,018,831</b>	<b>\$ 5,794,219</b>	<b>\$ 6,000,000</b>	<b>\$ -</b>	<b>\$ 14,627,449</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 29,440,500</b>

**Public Utilities**

**Otay 2nd Pipeline Phase 4 / S20001**

**Water - Distribution Sys - Transmission**

<b>Council District:</b>	Non-City	<b>Priority Score:</b>	99
<b>Community Planning:</b>		<b>Priority Category:</b>	High
<b>Project Status:</b>	New	<b>Contact Information:</b>	Demich, Andrea
<b>Duration:</b>	2020 - 2023		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This project will replace an existing portion of the Otay 2nd Pipeline in the City of Chula Vista between Bonita Road (North end) and Telegraph Canyon Road (South end), and install a new distribution main to supply water to a number of existing customers currently connected directly into the main transmission pipeline. The work will replace approximately 16,910 linear feet of existing Otay 2nd steel piping with new 48" Cement Mortar Lined and Tape Coated piping, and construct approximately 1,041 linear feet of new 8" distribution piping to serve existing customers.

**Justification:** This project will replace and up-size existing deteriorated piping to provide supply reliability for the Alvarado service area, and increase operational flexibility of the system. Seventeen existing residential water connections will be transferred to the new 8" distribution pipe in compliance with the City's design guidelines.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is recommended by addenda to the Otay Water Treatment Plant Service Area Master Plan and is in conformance with the City's General Plan.

**Schedule:** Design is anticipated to begin in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2021. Construction is scheduled to begin in Fiscal Year 2021 and is anticipated to be completed in Fiscal Year 2023.

**Summary of Project Changes:** This is a new project for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ -	\$ -	\$ 500,000	\$ -	\$ 10,000,000	\$ 10,000,000	\$ 11,270,000	\$ -	\$ -	\$ -	\$ 31,770,000
<b>Total</b>		\$ -	\$ -	\$ 500,000	\$ -	\$ 10,000,000	\$ 10,000,000	\$ 11,270,000	\$ -	\$ -	\$ -	\$ 31,770,000

## Public Utilities

### Otay Second Pipeline Relocation-PA / S15016

### Water - Distribution Sys - Transmission

<b>Council District:</b>	Non-City	<b>Priority Score:</b>	98
<b>Community Planning:</b>	Non City	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Wilson, Leonard
<b>Duration:</b>	2015 - 2025		619-446-5421
<b>Improvement Type:</b>	Replacement		llwilson@sandiego.gov

**Description:** This project is a participation agreement and will relocate 7.82 miles of potable water transmission pipelines from Otay Water Treatment to Olympic Parkway. The participation agreement outlines each segment of work, the City and Developer costs, and the schedule to begin and complete the work.

**Justification:** As the Otay Ranch Community develops, the existing Otay 2nd Pipeline, Otay 3rd Pipeline, South San Diego Pipeline No. 1, and South San Diego Pipeline No. 2 will be relocated into the City of Chula Vista's public rights-of-way.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is outside the City limits and there is no community planning area. This project is in conformance with the City's General Plan.

**Schedule:** Design of Phase 1 began in Fiscal Year 2015 and construction of Phase 1 will begin in Fiscal Year 2019. Subsequent design and construction phases will continue through calendar year 2025.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 50,971	\$ 4,783,120	\$ 8,262,079	\$ -	\$ 10,218,802	\$ 729,472	\$ 4,000,000	\$ -	\$ -	\$ -	\$ 28,044,445
<b>Total</b>		<b>\$ 50,971</b>	<b>\$ 4,783,120</b>	<b>\$ 8,262,079</b>	<b>\$ -</b>	<b>\$ 10,218,802</b>	<b>\$ 729,472</b>	<b>\$ 4,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 28,044,445</b>



**Public Utilities**

**Pacific Beach Pipeline South (W) / S12015**

**Water - Distribution Sys - Transmission**

<b>Council District:</b>	2	<b>Priority Score:</b>	92
<b>Community Planning:</b>	Pacific Beach; Midway - Pacific Highway; Mission Beach; Peninsula	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Jaro, Janice
<b>Duration:</b>	2012 - 2022		619-533-3851
<b>Improvement Type:</b>	Expansion		jjaro@sanidiego.gov

**Description:** Replacement of approximately 7.8 miles of existing transmission and distribution mains known as Pacific Beach Pipeline along Ingraham Street, West Mission Bay Drive, Sports Arena Boulevard, Midway Drive, Enterprise Street, Pacific Highway, Kurtz Street, Hancock Street, California Street, West Walnut Avenue, Vine Street, and Kettner Boulevard from the Buena Vista Street and Ingraham Street intersection through the Upas and Kettner Boulevard intersection. The project also includes demolition of the existing Pacific Beach Reservoir, abandonment of existing 16-inch pipeline from this reservoir through Tourmaline Street and Foothill Boulevard, and replacement of adjacent water mains along West Mission Bay Drive from Mission Boulevard through Ingraham Street, along Hancock Street from Estudillo Street through Noell Street, along West Washington Street from Hancock Street through Pacific Highway, and along Anna Avenue from Pacific Highway to Lovelock Street.

**Justification:** This project is needed to provide water supply reliability to Pacific Beach by replacing a 73 year old deteriorating cast iron pipe; thereby, increasing capacity and allowing for increased operational flexibility.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Midway-Pacific Highway, Mission Beach, Peninsula and Pacific Beach Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2014 and was completed in Fiscal Year 2016. Construction began in Fiscal Year 2016 and is anticipated to be completed in Fiscal Year 2021.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 28,510,465	\$ 5,862,379	\$ 5,737,598	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,110,443
<b>Total</b>		<b>\$ 28,510,465</b>	<b>\$ 5,862,379</b>	<b>\$ 5,737,598</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 40,110,443</b>

**Public Utilities**

**Pipeline Rehabilitation / AJA00002**

**Wastewater - Collection Sys - Main**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for the rehabilitation and repair of deteriorated sewers and manholes at various locations within the Municipal Wastewater System.

**Justification:** This annual allocation provides for the extension of the useful life of sewers and manholes, improvements in the level of service to the residents of San Diego, and compliance with regulatory agencies' standards by reducing the possibility of sewer spills.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 increased by \$10.7 million due to updates to the schedule of sub-projects.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 84,436,437	\$ 31,936,694	\$ 25,674,443	\$ -	\$ 12,702,996	\$ 17,547,873	\$ 18,079,427	\$ 18,640,212	\$ -	\$ -	\$ 209,018,083
<b>Total</b>		<b>\$ 84,436,437</b>	<b>\$ 31,936,694</b>	<b>\$ 25,674,443</b>	<b>\$ -</b>	<b>\$ 12,702,996</b>	<b>\$ 17,547,873</b>	<b>\$ 18,079,427</b>	<b>\$ 18,640,212</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 209,018,083</b>

## Public Utilities

### Pressure Reduction Facility Upgrades / AKA00002

### Water - Distribution Sys - Transmission

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for replacing existing pressure reducing stations or expanding pressure capacities to meet present and future water demands.

**Justification:** Increasing demands for water throughout the City require pressure reducing stations to better control water pressure throughout the City's system. This annual allocation will continue to fund the replacement and expansion of pressure reduction facilities.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 increased by \$800,000 due to updates to the schedule of sub-projects.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 504,754	\$ 545,245	\$ 800,000	\$ -	\$ 3,422,853	\$ 949,601	\$ 790,975	\$ 1,165,013	\$ -	\$ -	\$ 8,178,442
<b>Total</b>		<b>\$ 504,754</b>	<b>\$ 545,245</b>	<b>\$ 800,000</b>	<b>\$ -</b>	<b>\$ 3,422,853</b>	<b>\$ 949,601</b>	<b>\$ 790,975</b>	<b>\$ 1,165,013</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 8,178,442</b>

## Public Utilities

### PS2 Power Reliability & Surge Protection / S00312

### Bldg - MWWDD - Pump Stations

<b>Council District:</b>	2	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Peninsula	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Choi, Jong
<b>Duration:</b>	2011 - 2023		619-533-5493
<b>Improvement Type:</b>	Expansion		jchoi@sandiego.gov

**Description:** This project improves the reliability of Pump Station 2 and provides the required surge protection and backup power against an electrical outage in compliance with the Environmental Protection Agency (EPA) recommendation of standby power for essential facilities. This project also provides the required building upgrades (ADA compliant restrooms and offices). Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** Sewer Pump Station 2 currently has three feeds from San Diego Gas and Electric (SDG&E). Two of the feeds are fed from the same substation. Neither of the two SDG&E substations provide 100% power to Pump Station 2. EPA guidelines recommend that facilities like Pump Station 2 be equipped with two separate and independent sources of electrical power provided from either two separate utility substations or from a single substation and a plant base generator. The current pump station electrical configuration does not comply with the EPA recommendations. Besides satisfying the EPA guidelines, it is also required that force main surge protection be provided at all times during pump station operation and in the event of a total power failure.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2013 and was completed in Fiscal Year 2017. Construction began in Fiscal Year 2018 and is anticipated to be completed in Fiscal Year 2022.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 30,244,368	\$ 13,986,697	\$ 15,350,000	\$ -	\$ 12,955,568	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72,536,633
Metropolitan Sewer Utility Fund	700001	64,166	-	-	-	-	-	-	-	-	-	64,166
<b>Total</b>		<b>\$ 30,308,534</b>	<b>\$ 13,986,697</b>	<b>\$ 15,350,000</b>	<b>\$ -</b>	<b>\$ 12,955,568</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 72,600,800</b>

**Public Utilities**

**Pump Station Restorations / ABP00001**

**Bldg - MWWd - Pump Stations**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for the replacement of deteriorated municipal pumping equipment and/or pipeline appurtenances.

**Justification:** Many existing sewer pump stations have reached or exceeded their anticipated service life.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This annual allocation is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$2.2 million due to updates to the schedule of sub-projects. Additionally, in Fiscal Year 2019, the City Council authorized all budget to be transferred from ABP00003, Pump Station 64,65, Penasquitos, E Mission Gorge to this project.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 53,517	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 53,517
Muni Sewer Utility - CIP Funding Source	700008	11,802,822	4,350,782	-	-	588,742	7,565,421	12,529,843	29,941,578	-	-	66,779,188
Municipal Sewer Revenue Fund	700000	458,400	-	-	-	-	-	-	-	-	-	458,400
<b>Total</b>		<b>\$ 12,314,739</b>	<b>\$ 4,350,781</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 588,742</b>	<b>\$ 7,565,421</b>	<b>\$ 12,529,843</b>	<b>\$ 29,941,578</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 67,291,105</b>

## Public Utilities

### PURE Water Program / ALA00001

### Potable Reuse

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Dorman, Amy
<b>Duration:</b>	2015 - 2035		858-614-5504
<b>Improvement Type:</b>	New		adorman@sandiego.gov

**Description:** The Pure Water Program will be implemented in two phases. This annual allocation provides funding for phase I of the Program and it includes the design and construction of several facilities including a 30 million gallons per day (mgd) Pure Water Facility, expansion of the existing North City Water Reclamation Plant from 30 mgd to 52 mgd, 30 mgd Pure Water Pump Station and Conveyance system to deliver pure water to Miramar Reservoir, and a 37 mgd pump station and forcemain on Morena Blvd, which will convey additional wastewater from the central area of San Diego to the North City Water Reclamation Plant. The capacity and location of the Phase II Pure Water will be determined once Phase II Pure Water Program validation is complete.

**Justification:** This project is needed to meet the new permit requirement stipulated in the 2015 Point Loma Wastewater Treatment Plant permit application and to reduce reliance on external water sources by providing an uninterrupted local water supply.

**Operating Budget Impact:** The operating budget impact reflects the staffing and non-personnel expenditures required to bring the Pure Water Facilities online for continued operations and maintenance. As the project develops and progresses additional operating budget impacts will be identified.

**Relationship to General and Community Plans:** This project is in compliance with applicable community plans and is in conformance with the City's General Plan and helps to implement the City's Climate Action Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** In Fiscal Year 2019, City Council authorized the appropriation of \$18.9 million. While the annual project cost for Fiscal Year 2020 decreased by \$156.8 million, the overall program costs have increased due to revised projections at design completion and an updated review of the plans, specifications, and schedules by the projects construction management consultants. The Phase One of the Pure Water Project is currently the subject of litigation, and may impact projected project schedules and cost. Additionally, there have been costs added for the relocation of SDG&E utilities.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Metro SDG&E Utility Relocation	700104	\$ 7,527,418	\$ -	\$ -	\$ 33,646,954	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,174,373
Metro Sewer Utility - CIP Funding Source	700009	40,705,620	96,385,906	177,112,108	-	200,800,203	107,131,566	33,974,430	1,566,921	-	-	657,676,754
Water SDG&E Utility Relocation	700105	11,395,096	-	-	7,918,045	-	-	-	-	-	-	19,313,141
Water Utility - CIP Funding Source	700010	53,482,063	83,806,611	179,692,713	-	255,980,896	183,548,127	100,242,256	12,979,638	-	-	869,732,304
<b>Total</b>		<b>\$ 113,110,197</b>	<b>\$ 180,192,517</b>	<b>\$ 356,804,821</b>	<b>\$ 41,564,999</b>	<b>\$ 456,781,099</b>	<b>\$ 290,679,693</b>	<b>\$ 134,216,686</b>	<b>\$ 14,546,559</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,587,896,572</b>

### Operating Budget Impact

Department - Fund		FY 2020	FY 2021	FY 2022	FY 2023	FY 2024
<b>Public Utilities - METRO SEWER UTILITY</b>	<b>FTEs</b>	3.00	3.00	3.00	3.00	3.00
<b>Public Utilities - METRO SEWER UTILITY</b>	<b>Total Impact \$</b>	232,973	248,678	257,478	266,504	266,499
<b>Public Utilities - WATER UTILITY OPERATING</b>	<b>FTEs</b>	3.00	3.00	3.00	3.00	3.00
<b>Public Utilities - WATER UTILITY OPERATING</b>	<b>Total Impact \$</b>	275,052	274,560	274,545	274,548	274,560

## Public Utilities

### Recycled Water Systems Upgrades / AHC00004

### Reclaimed Water System - Pipelines

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Expansion		tphung@sanidiego.gov

**Description:** This annual allocation provides for the upgrade and replacement of recycled water system components as necessary.

**Justification:** Replacement and upgrades are necessary for the ongoing operation of the recycled water system.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$210,000 due to updates to the schedule of sub-projects.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 2,048,005	\$ 579,580	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,627,586
<b>Total</b>		<b>\$ 2,048,005</b>	<b>\$ 579,580</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,627,586</b>

## Public Utilities

### Recycled Water Tank Modifications / S12014

<b>Council District:</b>	5 8	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Scripps Miramar Ranch; Rancho Penasquitos; Tijuana River Valley	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Ammerlahn, Parita
<b>Duration:</b>	2014 - 2021		619-533-6651
<b>Improvement Type:</b>	Expansion		dvanmartin@sandiego.gov

**Description:** This project provides three recycled water tank drain modifications to comply with new regulatory requirements. The three tanks being modified: 9 million gallon Miramar Recycled Water Tank, 3 million gallon Black Mountain Ranch Tank, and .75 million gallon South Bay Reclamation Tank).

**Justification:** This project is needed in order to comply with the latest regulatory requirements of the Regional Water Quality Control Board that recycled water be drained to the sewer system rather than the storm drain system.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with Scripps Miramar Ranch, Rancho Penasquitos, and Tijuana River Valley Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design and construction began in Fiscal Year 2016 and are anticipated to be completed in Fiscal Year 2021.

**Summary of Project Changes:** Project schedule has been updated for Fiscal Year 2020.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,353,535	\$ 146,464	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
<b>Total</b>		<b>\$ 1,353,535</b>	<b>\$ 146,464</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 1,500,000</b>



## Public Utilities

### SBWR Plant Demineralization / S00310

### Bldg - MWWd - Treatment Plants

<b>Council District:</b>	8	<b>Priority Score:</b>	77
<b>Community Planning:</b>	Tijuana River Valley	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2013 - 2020		619-533-5105
<b>Improvement Type:</b>	Expansion		bvitelle@sandiego.gov

**Description:** This project provides demineralization of reclaimed water using the Electrodialysis Reversal (EDR) process. The project relocated two trailer mounted EDR units from the North City Water Reclamation Plant to the South Bay Water Reclamation Plant to reduce the Total Dissolved Solids (TDS) in the reclaimed water. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** The majority of reclaimed water is used for irrigation. Demineralization will reduce the level of total dissolved solids in the reclaimed water.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Tijuana River Valley Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2014 and was completed in Fiscal Year 2015. Construction began in Fiscal Year 2015 and was completed in Fiscal Year 2019.

**Summary of Project Changes:** No significant change has been made to this project in Fiscal Year 2020. Project is completed and will be closed by the end of the fiscal year.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 5,405,345	\$ 567,949	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,973,295
Metropolitan Sewer Utility Fund	700001	399	-	-	-	-	-	-	-	-	-	399
<b>Total</b>		<b>\$ 5,405,745</b>	<b>\$ 567,949</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 5,973,695</b>

Citywide

Sewer CIP Emergency Reserve / ABT00007

Bldg - Other City Facility / Structures

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Rashid, Surraya
<b>Duration:</b>	2010 - 2024		858-654-4112
<b>Improvement Type:</b>	Betterment		srashid@sandiego.gov

**Description:** This project is an emergency capital reserve intended to be used for emergency capital needs.

**Justification:** This reserve is required to comply with the City's reserve policy 100-20.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project acts as a reserve to fund projects on an as-needed basis. Projects utilizing this funding source are consistent with applicable community plans and are in conformance with the City's General Plan.

**Schedule:** The reserve will be used on an as-needed basis and will be held as a continuing appropriation.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000
Muni Sewer Utility - CIP Funding Source	700008	-	5,000,000	-	-	-	-	-	-	-	-	5,000,000
<b>Total</b>		<b>\$ -</b>	<b>\$ 10,000,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 10,000,000</b>

## Public Utilities

### Sewer Main Replacements / AJA00001

### Wastewater - Collection Sys - Main

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for the replacement of deteriorated and undersized sewer mains at various locations within the Municipal Wastewater System.

**Justification:** This annual allocation provides for the replacement of sewer mains that are in a deteriorated condition or are undersized.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$6.6 million due to updates to the schedule of sub-projects.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 6,666,926	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,666,926
Muni Sewer Utility - CIP Funding Source	700008	163,317,917	79,548,559	31,734,776	-	32,790,127	45,543,007	39,040,237	36,020,067	-	-	427,994,690
Municipal Sewer Revenue Fund	700000	1,427,951	-	-	-	-	-	-	-	-	-	1,427,951
<b>Total</b>		<b>\$ 171,412,794</b>	<b>\$ 79,548,559</b>	<b>\$ 31,734,776</b>	<b>\$ -</b>	<b>\$ 32,790,127</b>	<b>\$ 45,543,007</b>	<b>\$ 39,040,237</b>	<b>\$ 36,020,067</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 436,089,567</b>

## Public Utilities

### Standpipe and Reservoir Rehabilitations / ABL00001

### Bldg - Water - Standpipes

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for rehabilitation, upgrades, and improvement projects at reservoirs, dams, and standpipes to improve operations and extend their service life.

**Justification:** The existing reservoirs, dams, and standpipes in the water system have deteriorated and need to be reconstructed or replaced to meet the current Occupational Safety and Health Act and Environmental Protection Agency safety and water quality standards.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is in compliance with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$4.2 million due to updates to the schedule of sub-projects. Additionally, in Fiscal Year 2019, the City Council authorized the deappropriation of \$561,000.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 6,037,930	\$ 12,588,929	\$ 2,361,000	\$ -	\$ 9,907,481	\$ 18,659,991	\$ 20,357,626	\$ 23,143,036	\$ -	\$ -	\$ 93,055,994
Water Utility Operating Fund	700011	35,430	-	-	-	-	-	-	-	-	-	35,430
<b>Total</b>		<b>\$ 6,073,360</b>	<b>\$ 12,588,929</b>	<b>\$ 2,361,000</b>	<b>\$ -</b>	<b>\$ 9,907,481</b>	<b>\$ 18,659,991</b>	<b>\$ 20,357,626</b>	<b>\$ 23,143,036</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 93,091,423</b>

## Public Utilities

### Tecolote Canyon Trunk Sewer Improvement / S15020

### Wastewater - Collection Sys - Trunk Swr

<b>Council District:</b>	2	<b>Priority Score:</b>	84
<b>Community Planning:</b>	Clairemont Mesa	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Salem, Nicole
<b>Duration:</b>	2015 - 2026		619-533-7443
<b>Improvement Type:</b>	Replacement - Rehab		nsalem@sandiego.gov

**Description:** This project upsizes approximately 3.3 miles of existing 18- to 24-inch vitrified clay (VC) sewer pipe in Tecolote Canyon to provide additional capacity, and to rehabilitate approximately 1.4 miles of existing 15-inch VC sewer pipe. An access path is also being designed and constructed as part of the project.

**Justification:** Improvements are needed to accommodate future flow capacity and address deteriorated conditions within the Tecolote Canyon Trunk Sewer.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Clairemont Mesa Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2016 and is anticipated to be completed by Fiscal Year 2021. Construction is scheduled to begin in Fiscal Year 2021 and is anticipated to be completed by Fiscal Year 2024.

**Summary of Project Changes:** The total project cost increased by \$18.1 million due to revised engineer's estimate. The project schedule has been updated for Fiscal Year 2020.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 1,538,402	\$ 4,141,597	\$ 2,500,000	\$ -	\$ 2,000,000	\$ 10,000,000	\$ 14,820,000	\$ -	\$ -	\$ -	\$ 35,000,000
<b>Total</b>		<b>\$ 1,538,402</b>	<b>\$ 4,141,597</b>	<b>\$ 2,500,000</b>	<b>\$ -</b>	<b>\$ 2,000,000</b>	<b>\$ 10,000,000</b>	<b>\$ 14,820,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 35,000,000</b>

## Public Utilities

### Tierrasanta (Via Dominique) Pump Station / S12040

### Bldg - Water - Pump Stations

<b>Council District:</b>	7	<b>Priority Score:</b>	96
<b>Community Planning:</b>	Tierrasanta	<b>Priority Category:</b>	High
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Van Martin, Debbie
<b>Duration:</b>	2010 - 2021		619-533-6651
<b>Improvement Type:</b>	Expansion		dvanmartin@sandiego.gov

**Description:** This project provides for a new station with a total pump station capacity of 13.9 million gallons per day (mgd), and 2,900 feet of 16-inch transmission mains. It will replace the existing temporary Tierrasanta Pump Station and Via Dominique Pump Station, and will serve the Tierrasanta Norte 900 Zone and the Tierrasanta 752 Zone.

**Justification:** The existing pump stations are past their useful life and are heavily deteriorated and inefficient.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This plan is consistent with the Tierrasanta Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2013 and was completed in Fiscal Year 2016. Construction began in Fiscal Year 2017 and is anticipated to be completed in Fiscal Year 2020.

**Summary of Project Changes:** The total project cost increased by \$580,000 due to costs associated with an additional scope of improvements, an upgrade to the emergency generator, extension of the design consultant's contract, extension of the construction management consultant's contract, and additional security system scope.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 14,377,880	\$ 876,115	\$ 580,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,833,996
<b>Total</b>		<b>\$ 14,377,880</b>	<b>\$ 876,115</b>	<b>\$ 580,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 15,833,996</b>

## Public Utilities

### University Ave Pipeline Replacement / S11021

### Water - Distribution Sys - Distribution

<b>Council District:</b>	3	<b>Priority Score:</b>	93
<b>Community Planning:</b>	Uptown; Greater North Park	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2011 - 2021		619-533-5105
<b>Improvement Type:</b>	Replacement		bvitelle@sandiego.gov

**Description:** This project replaces 23,072 linear feet of the existing cast iron University Avenue Pipeline with a new 16-inch distribution line along the entire alignment of the pipeline. This project will connect crossing distribution lines at all intersections, and re-connect all services, including tunneling at State Route 163.

**Justification:** This project will replace the existing deteriorated cast iron pipe. The University Avenue Pipeline was built in 1912 and lined with concrete in 1974. The replacement of cast-iron pipes is mandated by the California Department of Public Health's (CDPH) Compliance Order. The new pipeline will provide supply reliability and improve water quality.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Uptown and Greater North Park Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2012 and was completed in Fiscal Year 2015. Construction began in Fiscal Year 2015 and is anticipated to be completed in Fiscal Year 2020.

**Summary of Project Changes:** The total project cost increased by \$1.2 million due to additional Caltrans requirements. Additionally, in Fiscal Year 2019, the City Council authorized the appropriation of \$1.2 million. The project schedule was updated for Fiscal Year 2020.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 25,184,132	\$ 1,885,663	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,069,796
Water Utility Operating Fund	700011	130,204	-	-	-	-	-	-	-	-	-	130,204
<b>Total</b>		<b>\$ 25,314,336</b>	<b>\$ 1,885,663</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 27,200,000</b>

**Public Utilities**

**University Heights Reservoir Rehabilitation / S20002**

**Bldg - Water - Reservoirs/Dams**

<b>Council District:</b>	3	<b>Priority Score:</b>	94
<b>Community Planning:</b>	Greater North Park	<b>Priority Category:</b>	High
<b>Project Status:</b>	New	<b>Contact Information:</b>	Ammerlahn, Parita
<b>Duration:</b>	2020 - 2023		619-533-5406
<b>Improvement Type:</b>	Replacement		pammerlahn@sandiego.gov

**Description:** Install SCADA and instruments, install valves, update the Valve Building, install mixing appurtenance, and fix structural issues with reservoir.

**Justification:** The Reservoir needs repairs to remain in service, the yard-piping needs to be reconfigured to connect to the proposed Otay 1st and 2nd Pipelines West of Highland Avenue Project, and address water quality issues.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Greater North Park Community Plan and is in compliance with the City's General Plan.

**Schedule:** Design is scheduled to begin in 2020 and is anticipated to be completed in 2021. Construction is scheduled to begin in 2021 and is anticipated to be completed in 2023.

**Summary of Project Changes:** This is a new project for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ -	\$ -	\$ 1,000,000	\$ -	\$ 5,400,000	\$ 7,300,000	\$ 4,500,000	\$ -	\$ -	\$ -	\$ 18,200,000
<b>Total</b>		\$ -	\$ -	\$ 1,000,000	\$ -	\$ 5,400,000	\$ 7,300,000	\$ 4,500,000	\$ -	\$ -	\$ -	\$ 18,200,000



## Public Utilities

### University Heights Water Tower Seismic Retrofit / S17006

### Bldg - Water - Standpipes

<b>Council District:</b>	3	<b>Priority Score:</b>	43
<b>Community Planning:</b>	Greater North Park	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Vitelle, Brian
<b>Duration:</b>	2016 - 2020		619-533-5105
<b>Improvement Type:</b>	Replacement		bvitelle@sandiego.gov

**Description:** This project will replace the exterior structural elements which includes replacing the corroded anchor bolt washers, extending of column footing foundation, removing and replacing existing tie-rods with new tie-rods, and installing new gusset plates and pin connectors, lead coating abatement, and recoating of lower portions of the columns.

**Justification:** This project is being driven by the need to repair and retrofit the existing historical University Heights Water Tower to maintain the current state of structural elements and allow for safer performance during seismic events.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Greater North Park Community Plan and is in conformance with the City's General Plan.

**Schedule:** Design started in Fiscal Year 2017 and was completed in Fiscal Year 2018.

Construction began in Fiscal Year 2018 and was completed in Fiscal Year 2019.

**Summary of Project Changes:** The total project cost increased by \$150,000 due to increased project scope. In Fiscal Year 2019, the City Council authorized the appropriation of \$150,000. The project is complete and will be closed by the end of the fiscal year.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,939,933	\$ 373,066	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,313,000
<b>Total</b>		<b>\$ 1,939,933</b>	<b>\$ 373,066</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 2,313,000</b>

**Public Utilities**

**Unscheduled Projects / AJA00003**

**Wastewater - Collection Sys - Main**

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for the repair and replacement of municipal and metropolitan sewers in need of emergency repairs.

**Justification:** This annual allocation provides for emergency repairs and replacement of sewer pipeline to avoid failures of the Municipal and Metropolitan Sewer System.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects are scheduled on a priority basis.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 552,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 552,840
Metro Sewer Utility - CIP Funding Source	700009	-	240,017	-	-	-	-	-	-	-	-	240,017
Muni Sewer Utility - CIP Funding Source	700008	8,196,509	706,122	-	-	-	-	-	-	-	-	8,902,632
Municipal Sewer Revenue Fund	700000	28,390	-	-	-	-	-	-	-	-	-	28,390
<b>Total</b>		<b>\$ 8,777,739</b>	<b>\$ 946,139</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 9,723,878</b>

## Public Utilities

### Upas St Pipeline Replacement / S11022

### Water - Distribution Sys - Distribution

<b>Council District:</b>	2 3	<b>Priority Score:</b>	93
<b>Community Planning:</b>	Uptown; Greater North Park; Midway - Pacific Highway	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Ammerlahn, Parita
<b>Duration:</b>	2011 - 2021		619-533-5105
<b>Improvement Type:</b>	Replacement		bvitelle@sandiego.gov

**Description:** This project replaces 5.67 miles of cast iron mains along the Upas Street Pipeline from Ray Street to Pacific Highway, as well as portions of the 5th Avenue pipeline and the Park Boulevard pipeline. This project also installs one new pressure reducing station and replaces three existing pressure reducing stations.

**Justification:** This project will replace the existing deteriorated cast iron pipe. The new pipeline will improve supply reliability and water quality.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Uptown, Greater North Park, and Midway-Pacific Highway Community Plans and is in conformance with the City's General Plan.

**Schedule:** Design began in Fiscal Year 2012 and was completed in Fiscal Year 2014. Construction began in Fiscal Year 2014 and is anticipated to be completed in Fiscal Year 2020.

**Summary of Project Changes:** The total project cost increased by \$1.2 million due to unexpected conditions at the site and project delays due to operational issues. Additionally, in Fiscal Year 2019, the City Council authorized the appropriation of \$1.2 million.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
PFFA-Water Rev Bonds Series 2016A	700095	\$ 2,440,361	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,440,361
Water Utility - CIP Funding Source	700010	31,942,688	3,100,173	-	-	-	-	-	-	-	-	35,042,862
Water Utility Operating Fund	700011	113,103	-	-	-	-	-	-	-	-	-	113,103
<b>Total</b>		<b>\$ 34,496,152</b>	<b>\$ 3,100,173</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 37,596,326</b>

## Public Utilities

### Water & Sewer Group Job 816 (W) / S13015

### Water - Distribution Sys - Distribution

<b>Council District:</b>	2	<b>Priority Score:</b>	90
<b>Community Planning:</b>	Pacific Beach	<b>Priority Category:</b>	Low
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Sleiman, Alexander
<b>Duration:</b>	2013 - 2021		619-533-7588
<b>Improvement Type:</b>	Expansion		asleiman@sandiego.gov

**Description:** This project is in the Pacific Beach Community and provides for the replacement and expansion of 30,879 linear feet of various pipe materials and sizes.

**Justification:** The majority of Pacific Beach Community pipelines are made of cast iron and are due for replacement in accordance with California Department of Public Health's (CDPH) Compliance Order. This project is intended to reduce maintenance and improve service.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This plan is consistent with the Pacific Beach Community Plan and is in conformance with the City's General Plan.

**Schedule:** Planning began in Fiscal Year 2012 and was completed in Fiscal Year 2013. Design began in Fiscal Year 2013 and was completed in Fiscal Year 2019.

Construction began in Fiscal Year 2016 and is anticipated to be completed in Fiscal Year 2020.

**Summary of Project Changes:** The total project cost increased by \$1.4 million due to increased street repair/resurfacing costs. Additionally, the project schedule has been updated for Fiscal Year 2020.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 12,719,974	\$ 3,799,417	\$ 1,400,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,919,392
<b>Total</b>		<b>\$ 12,719,974</b>	<b>\$ 3,799,417</b>	<b>\$ 1,400,000</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 17,919,392</b>

Citywide

Water CIP Emergency Reserve / ABT00008

Bldg - Other City Facility / Structures

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Rashid, Surraya
<b>Duration:</b>	2010 - 2024		858-654-4112
<b>Improvement Type:</b>	Betterment		srashid@sandiego.gov

**Description:** This annual allocation provides for an emergency financial reserve for Water Fund capital improvement projects.

**Justification:** This reserve is required to comply with the stipulation in the Bond Counsel.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** Projects utilizing this funding source are consistent with applicable community plans and are in conformance with the City's General Plan.

**Schedule:** This reserve will be used on an as-needed basis, in conformance with Bond Counsel requirements. This reserve will be held as a continuing appropriation.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000
<b>Total</b>		\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000

## Public Utilities

### Water Department Security Upgrades / S00050

### Bldg - Operations Facility / Structures

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	N/A
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	N/A
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2001 - 2021		858-292-6425
<b>Improvement Type:</b>	Betterment		tphung@sandiego.gov

**Description:** This project provides for the design and installation of miscellaneous security systems at various facilities.

**Justification:** This project provides for the deterrence, detection, and apprehension of unauthorized personnel, in order to maintain a safe and secure water system.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Implementation began in Fiscal Year 2001 and will continue through Fiscal Year 2020.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$1.8 million due to updates to the schedule of sub-projects. Additionally, in Fiscal Year 2019, the City Council authorized the deappropriation of \$1.0 million.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 4,468,272	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,468,272
Water Utility - CIP Funding Source	700010	1,046,426	2,019,377	-	-	-	-	-	-	-	-	3,065,803
Water Utility Operating Fund	700011	30,986	-	-	-	-	-	-	-	-	-	30,986
<b>Total</b>		<b>\$ 5,545,684</b>	<b>\$ 2,019,377</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,565,061</b>

## Public Utilities

### Water Main Replacements / AKB00003

### Water - Distribution Sys - Distribution

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation allows for the replacement of water mains at various locations throughout the City.

**Justification:** Water mains require replacement due to their deteriorated condition or size limitation. The existing pipeline is either approaching or has exceeded its expected life. The replacement of cast iron pipes is mandated by the California Department of Public Health's (CDPH) Compliance Order.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 increased by \$14.2 million due to updates to the schedule of sub-projects and added costs for the relocation of SDG&E utilities. Additionally, in Fiscal Year 2019, the City Council authorized the appropriation of \$12.5 million.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 760,126	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 760,126
PFFA-Water Rev Bonds Series 2016A	700095	5,757,624	-	-	-	-	-	-	-	-	-	5,757,624
Water SDG&E Utility Relocation	700105	3,191,620	-	-	7,667,432	-	-	-	-	-	-	10,859,052
Water Utility - CIP Funding Source	700010	219,884,802	85,593,538	64,191,685	-	69,810,252	43,676,451	53,496,151	50,280,281	-	-	586,933,160
Water Utility Operating Fund	700011	656,575	-	-	-	-	-	-	-	-	-	656,575
<b>Total</b>		<b>\$ 230,250,748</b>	<b>\$ 85,593,537</b>	<b>\$ 64,191,685</b>	<b>\$ 7,667,432</b>	<b>\$ 69,810,252</b>	<b>\$ 43,676,451</b>	<b>\$ 53,496,151</b>	<b>\$ 50,280,281</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 604,966,537</b>

## Public Utilities

### Water Pump Station Restoration / ABJ00001

### Bldg - Water - Pump Stations

<b>Council District:</b>	Citywide	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Citywide	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2010 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for replacing deteriorated pumping equipment and appurtenances or expanding pumping capacities to meet present and future water demands.

**Justification:** Many existing water pump stations have reached or exceeded their anticipated service life or demands have exceeded their maximum pumping capacity. However, because of the widely varying actual lengths of service life, scheduling for pump station restoration is difficult.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$4.6 million due to updates to the schedule of sub-projects. Additionally, in Fiscal Year 2019, the City Council authorized the appropriation of \$800,000.

### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 13,923,489	\$ 9,141,109	\$ 1,477,453	\$ -	\$ 1,655,440	\$ 8,555,919	\$ 7,904,737	\$ 9,095,153	\$ -	\$ -	\$ 51,753,301
Water Utility Operating Fund	700011	37,509	-	-	-	-	-	-	-	-	-	37,509
<b>Total</b>		<b>\$ 13,960,998</b>	<b>\$ 9,141,109</b>	<b>\$ 1,477,453</b>	<b>\$ -</b>	<b>\$ 1,655,440</b>	<b>\$ 8,555,919</b>	<b>\$ 7,904,737</b>	<b>\$ 9,095,153</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 51,790,810</b>



**Public Utilities**

**Water Treatment Plants / ABI00001**

**Bldg - Water - Treatment Plants**

<b>Council District:</b>	5 7 Non-City	<b>Priority Score:</b>	Annual
<b>Community Planning:</b>	Scripps Miramar Ranch; Navajo; Non City	<b>Priority Category:</b>	Annual
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Phung, Tung
<b>Duration:</b>	2013 - 2024		858-292-6425
<b>Improvement Type:</b>	Replacement		tphung@sandiego.gov

**Description:** This annual allocation provides for upgrades and replacement of the treatment facilities at Alvarado, Miramar, and Otay water treatment plants.

**Justification:** These improvements are necessary to ensure a reliable water supply to the customers and for compliance under the Safe Drinking Water Act.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with applicable community plans and is in conformance with the City's General Plan.

**Schedule:** Projects will be scheduled on a priority basis.

**Summary of Project Changes:** The annual project cost for Fiscal Year 2020 decreased by \$203,600 due to updates to the schedule of sub-projects.

**Expenditure by Funding Source**

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 524,758	\$ 2,245,207	\$ 500,000	\$ -	\$ 246,192	\$ 246,192	\$ 246,192	\$ 246,192	\$ -	\$ -	\$ 4,254,734
<b>Total</b>		<b>\$ 524,758</b>	<b>\$ 2,245,207</b>	<b>\$ 500,000</b>	<b>\$ -</b>	<b>\$ 246,192</b>	<b>\$ 246,192</b>	<b>\$ 246,192</b>	<b>\$ 246,192</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,254,734</b>

## Public Utilities

### Wet Weather Storage Facility / S00314

### Bldg - MWWD - Administration Struct

<b>Council District:</b>	1 2 6	<b>Priority Score:</b>	83
<b>Community Planning:</b>	University; Clairemont Mesa; Mission Bay Park; Peninsula	<b>Priority Category:</b>	Medium
<b>Project Status:</b>	Continuing	<b>Contact Information:</b>	Hong, Vien
<b>Duration:</b>	2010 - 2022		858-292-6473
<b>Improvement Type:</b>	Expansion		vhong@sandiego.gov

**Description:** This project includes the implementation of the emergency live stream discharge of reclaimed water from the North City Reclamation Plant during heavy rain events to reduce the capacity demand on the downstream sewer system and facilities. Approximately 34 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

**Justification:** The facility will reduce the risk of potential wet weather overflows, which may be caused by the capacity limitation of Pump Station 2 during extreme rainfall events.

**Operating Budget Impact:** None.

**Relationship to General and Community Plans:** This project is consistent with the Peninsula, University, and Clairemont Mesa Community Plans, and Mission Bay Park Master Plan and is in conformance with the City's General Plan.

**Schedule:** The project design and construction may be adjusted pending the Regional Water Quality Control Board (RWQCB) approval of the National Pollutant Discharge Elimination System (NPDES) permit, expected in Fiscal Year 2020.

**Summary of Project Changes:** No significant change has been made to this project for Fiscal Year 2020.

#### Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2020	FY 2020 Anticipated	FY 2021	FY 2022	FY 2023	FY 2024	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 1,853,216	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,853,216
Metro Sewer Utility - CIP Funding Source	700009	136,444	122,214	1,000,000	-	3,780,501	-	-	-	-	-	5,039,159
Metropolitan Sewer Utility Fund	700001	379,752	-	-	-	-	-	-	-	-	-	379,752
<b>Total</b>		<b>\$ 2,369,412</b>	<b>\$ 122,213</b>	<b>\$ 1,000,000</b>	<b>\$ -</b>	<b>\$ 3,780,501</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 7,272,127</b>