

Public Utilities



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Public Utilities

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 Improvements 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 pipeline. 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 a proven innovative water purification program 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 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.

2020 CIP Accomplishments

As of June 30, 2020, the Department completed the replacement and rehabilitation of 36.73 sewer miles and 20.7 water miles. The Department has also televised 23.41 miles of sewer mains as of June 30, 2020. To date, over 2,150 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 2020:

- Construction was completed on the South Bay Water Reclamation Plant Manhole Rehabilitation Project, which consisted of the rehabilitation of 21 manholes located within the plant located in the Tijuana river valley area
- Construction was completed on the Water and Sewer Group Job 966 Project, which consisted of the replacement of approximately 0.92 miles of water mains and 0.76 miles of sewer mains in the Clairemont Mesa area
- Construction was completed on the Pipeline Rehabilitation AK-1 Project, which consisted of the rehabilitation of approximately 7.77 miles of sewer mains in the Skyline-Paradise hills area
- Construction was completed on the Pipeline Rehabilitation AT-1 Project, which consisted of the rehabilitation of approximately 7.51 miles of sewer mains in the Linda Vista and Navajo areas
- Construction was completed on the AC Water and Sewer Group Job 1017 Project, which consisted of the replacement of approximately 2.84 miles of water mains and 0.16 miles of sewer mains in the Peninsula area
- Construction was completed on the AC Water and Sewer Group Job 1014 Project, which consisted of the replacement of approximately 2.8 miles of water mains and 0.3 miles of sewer mains in the Mid-City and City Heights areas
- Construction was completed on the AC Water Group 1012 Project, which consisted of the replacement of approximately 3.6 miles of existing water mains in the Southeastern San Diego area
- Construction was completed on the Water Group Job 942 Project, which consisted of the replacement of approximately 1.2 miles of existing water mains in the Kearny Mesa Area
- Construction was completed on the Water and Sewer Group Job 955 Project, which consisted of the replacement of approximately 1.18 miles of water mains and 0.33 miles of sewer mains in the Clairemont Mesa area

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- Construction continues on the AC Water & Sewer Group 1024 Project, which consists of the replacement of approximately 5.15 miles of water mains and 0.79 miles of sewer mains in the Southeastern San Diego and Encanto areas
- Construction continues on the AC Water & Sewer Group 1044 Project, which consists of the replacement of 1.12 miles of AC and CI water mains and 0.11 miles of sewer mains in the Mid-City Heights area. The construction is anticipated to be completed in 2021
- Construction continues on the Soledad Pump Station Upgrade Project, which consists of the replacement of an existing building, installation of 4 pumps, and installing a new pressure relief valve in the La Jolla area. The construction is anticipated to be completed in 2021
- Construction continues on the AC Water & Sewer Group 1029 Project, which consists of the replacement of 4 miles of AC water mains and 0.6 miles of sewer mains in the Encanto area. The construction is anticipated to be completed in 2021
- Construction continues on the Mira Mesa Trunk Sewer Improvement Project, which consists of the rehabilitation of approximately 1.42 miles of sewer mains and the replacement of approximately 0.43 miles of sewer mains in the Mira Mesa area. The construction is anticipated to be completed in 2021
- Construction continues on the Sewer and AC Water Group 778 Project, which consists of replacement of 5.06 miles of AC water mains in the Encanto area. The construction is anticipated to be completed in 2021
- Construction continues on the AC Water & Sewer Group Job 1013 Project, which consists of replacement of 5.32 miles of AC water mains and 0.86 miles of sewer mains in the Mid-City and City Heights areas. The construction is anticipated to be completed in 2021

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 reached on the Pure Water Program:

- Began construction for the Phase 1 construction package, which includes early site work at the North City Water Reclamation Plant and North City Pure Water Facility
- Completed mass grading and clearing at the North City Pure Water Facility site
- Received the Conditional Acceptance Letter from the Division of Drinking Water for the Title 22 Engineering Report for the North City Pure Water Project on July 12, 2019
- Held the first Independent Advisory Panel (IAP) meeting on Pure Water Phase 2 treatment approaches. The IAP provided expert oversight in the development of the North City Pure Water Phase 1 treatment approach and will once again provide expert oversight for Phase 2
- Received the National Pollutant Discharge Elimination System (NPDES) permit for the North City Water Reclamation Plant and Pure Water Facility which allows the City to discharge advanced treated recycled water into Miramar Reservoir.

2021 CIP Goals

In order to achieve the Public Utilities Department goal to provide safe drinking water and to improve its aging infrastructure, the Public Utilities Department continues to replace and rehabilitate about 40 sewer miles and 35 water miles per fiscal year. These capital needs are based on condition assessment results, future demand projections, 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 2021, the department anticipated accomplishing the following:

- Complete construction on the AC Water & Sewer Group 1044 Project, which consists of the replacement of 1.12 miles of AC and CI water mains and 0.11 miles of sewer mains in the Mid-City Heights area
- Complete construction of the Soledad Pump Station Upgrade Project, which consists of the replacement of an existing building, installation of 4 pumps, and installing a new pressure relief valve in the La Jolla area
- Complete construction on the AC Water & Sewer Group 1029 project, which consists of the replacement of 4 miles of AC water mains and 0.6 miles of sewer mains in the Encanto area
- Complete construction of the Mira Mesa Trunk Sewer Improvement Project, which consists of the rehabilitation of

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approximately 1.42 miles of sewer mains and the replacement of approximately 0.43 miles of sewer mains in the Mira Mesa area

- In Fiscal Year 2021, the Department anticipates accomplishing the following goals for the Pure Water Program:
- Complete construction on the early site work at the North City Water Reclamation Plant and North City Pure Water Facility
- Finalize the Pure Water Project Labor Agreement
- Advertise eight of the remaining ten Phase 1 construction packages



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Public Utilities: Capital Improvement Projects

Project	Prior Fiscal Years	FY 2021 Adopted	Future Fiscal Years	Project Total
30th Street Pipeline Replacement / S12010	\$ 28,753,592	\$ 1,250,000	\$ -	\$ 30,003,592
69th & Mohawk Pump Station / S12011	15,088,594	-	-	15,088,594
Advanced Metering Infrastructure / S17008	67,568,898	-	57,966,743	125,535,641
Alvarado 2nd Extension Pipeline / S12013	9,224,242	-	71,274,289	80,498,531
Alvarado Trunk Sewer Phase IV / S15019	12,420,000	24,660,000	23,099,009	60,179,009
Catalina 12inch Cast Iron Mains / S12008	12,620,000	-	-	12,620,000
Chollas Building / S11025	45,661,948	-	-	45,661,948
Cielo & Woodman Pump Station / S12012	2,678,000	1,200,000	3,000,000	6,878,000
Corrosion Control / AKA00001	200,000	-	-	200,000
El Monte Pipeline No 2 / S10008	4,448,000	2,000,000	18,052,001	24,500,001
EMTS Boat Dock Esplanade / S00319	1,418,535	2,012,316	-	3,430,851
Freeway Relocation / AKB00002	2,589,774	-	400,000	2,989,774
Groundwater Asset Development Program / ABM00001	3,000,000	-	1,478,988	4,478,988
Harbor Drive Trunk Sewer / S18006	9,791,250	4,000,000	7,253,751	21,045,001
Instrumentation and Control / AKB00007	200,000	-	10,400,297	10,600,297
Kearny Mesa Trunk Sewer / S20000	500,000	2,000,000	21,700,000	24,200,000
La Jolla Scenic Drive 16inch Main / S12009	10,898,000	500,000	-	11,398,000
La Jolla View Reservoir / S15027	5,380,001	200,000	21,420,314	27,000,315
Large Diameter Water Transmission PPL / AKA00003	51,256,722	6,558,557	36,212,396	94,027,675
Little McGonigle Ranch Road Pipeline / S00069	6,000,000	-	-	6,000,000
Lower Otay Outlet Tower / S12018	990,811	-	1,655,053	2,645,864
MBC Dewatering Centrifuges Replacement / S00339	12,122,443	300,000	-	12,422,443
MBC Equipment Upgrades / S17013	3,929,506	1,961,315	39,596,240	45,487,061
Metro Treatment Plants / ABO00001	13,423,360	5,639,170	9,136,354	28,198,884
Metropolitan System Pump Stations / ABP00002	989,385	-	11,689,363	12,678,748
Metropolitan Waste Water Department Trunk Sewers / AJB00001	27,445,215	6,000,000	49,249,098	82,694,313
Miramar Clearwell Improvements / S11024	120,328,744	-	-	120,328,744
Montezuma/Mid-City Pipeline Phase II / S11026	19,478,200	18,000,000	8,745,553	46,223,753
Morena Pipeline / S16027	20,871,734	15,364,419	53,104,663	89,340,816
Morena Reservoir Outlet Tower Upgrade / S00041	3,480,000	-	20,020,000	23,500,000
NCWRP Improvements to 30 mgd / S17012	5,083,139	755,291	33,230,687	39,069,117
New 16" Water Mains (U-3) / RD15003	1,225,000	-	-	1,225,000
Otay 1st/2nd PPL West of Highland Avenue / S12016	14,813,051	14,627,449	-	29,440,500
Otay 2nd Pipeline Phase 4 / S20001	800,000	5,000,000	32,208,900	38,008,900
Otay 2nd Pipeline Steel Replacement Ph 5 / S21000	-	100,000	18,660,000	18,760,000
Otay Second Pipeline Relocation-PA / S15016	13,096,171	-	14,948,274	28,044,445
Pacific Beach Pipeline South (W) / S12015	40,110,443	1,656,490	-	41,766,933
Pipeline Rehabilitation / AJA00002	123,793,262	11,867,986	26,321,332	161,982,580
Pressure Reduction Facility Upgrades / AKA00002	1,850,000	1,200,000	2,436,300	5,486,300
PS2 Power Reliability & Surge Protection / S00312	59,645,232	12,955,568	3,475,000	76,075,800
Pump Station Restorations / ABP00001	9,881,516	2,800,000	12,095,639	24,777,155
Pure Water Pooled Contingency / P19002	31,483,498	-	71,180,339	102,663,837
PURE Water Program / ALA00001	640,828,640	-	1,097,841,669	1,738,670,309
Recycled Water Systems Upgrades / AHC00004	86,899	-	-	86,899
Recycled Water Tank Modifications / S12014	1,500,000	-	-	1,500,000
SBWR Plant Demineralization / S00310	5,973,695	-	-	5,973,695
Sewer CIP Emergency Reserve / ABT00007	12,000,000	-	-	12,000,000
Sewer Main Replacements / AJA00001	254,656,818	55,904,294	195,259,059	505,820,171
South Mission Valley Trunk Sewer Ph II / S21002	-	100,000	13,900,000	14,000,000
Standpipe and Reservoir Rehabilitations / ABL00001	25,186,834	3,261,000	46,599,834	75,047,668
Tecolote Canyon Trunk Sewer Improvement / S15020	2,180,000	2,000,000	30,820,000	35,000,000

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Project	Prior Fiscal Years	FY 2021 Adopted	Future Fiscal Years	Project Total
Tierrasanta (Via Dominique) Pump Station / S12040	16,093,996	190,000	-	16,283,996
University Ave Pipeline Replacement / S11021	27,550,000	-	-	27,550,000
University Heights Reservoir Rehabilitation / S20002	1,000,000	1,000,000	16,200,000	18,200,000
Unscheduled Projects / AJA00003	9,051,215	-	-	9,051,215
Upas St Pipeline Replacement / S11022	37,387,986	-	-	37,387,986
Water & Sewer Group Job 816 (W) / S13015	18,199,392	-	-	18,199,392
Water CIP Emergency Reserve / ABT00008	5,000,000	-	-	5,000,000
Water Department Security Upgrades / S00050	7,565,062	1,000,000	-	8,565,062
Water Main Replacements / AKB00003	370,940,885	78,535,744	276,043,948	725,520,577
Water Pump Station Restoration / ABJ00001	25,179,561	800,000	23,257,562	49,237,123
Water SCADA Upgrade Phase I / S21001	-	500,000	15,600,000	16,100,000
Water Treatment Plants / ABI00001	2,769,966	-	16,546,187	19,316,153
Total	\$ 2,277,689,217	\$ 285,899,599	\$ 2,412,078,842	\$ 4,975,667,658

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 2021	Project
Metro Sewer Utility - CIP Funding Source	700009	\$ -	\$ 13,223,069	\$ -	\$ 44,254,295
Water Utility - CIP Funding Source	700010	-	18,260,429	-	58,409,542
Total		\$ -	\$ 31,483,498	\$ -	\$ 102,663,837



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30th Street Pipeline Replacement / S12010

Water - Distribution Sys - Transmission

Council District:	3 8	Priority Score:	93
Community Planning:	Greater North Park; Greater Golden Hill; Southeastern San Diego	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Bose, Sheila
Duration:	2014 - 2022		619-533-4698
Improvement Type:	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 2021 due to utility conflicts discovered during construction.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 24,484,820	\$ 4,268,771	\$ 1,250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,003,592
Total		\$ 24,484,820	\$ 4,268,771	\$ 1,250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,003,592

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69th & Mohawk Pump Station / S12011

Bldg - Water - Pump Stations

Council District:	4 9	Priority Score:	96
Community Planning:	College Area; Mid-City: Eastern Area	Priority Category:	High
Project Status:	Continuing	Contact Information:	Van Martin, Debbie
Duration:	2013 - 2022		619-533-6651
Improvement Type:	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 2018 and is scheduled to be completed in Fiscal Year 2021.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 14,028,535	\$ 1,060,058	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,088,594
Total		\$ 14,028,535	\$ 1,060,058	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,088,594

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Advanced Metering Infrastructure / S17008

Bldg - Other City Facility / Structures

Council District:	Citywide	Priority Score:	59
Community Planning:	Citywide	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Arnold, Jane
Duration:	2017 - 2024		858-614-4517
Improvement Type:	Betterment		jarnold@saniego.gov

Description: This project deploys Advanced Metering Infrastructure (AMI) technology to approximately 280,000 water meters citywide. The AMI technology allows water meters to be read electronically rather than by direct visual inspection by field staff, which improves the accuracy of the meter reads. AMI offers several benefits, including mitigating human error in meter readings, automatically detecting leaks, and allowing customers to monitor their own hourly water consumption. This enhances customer service and assists customers with water conservation. 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: Design began in Fiscal Year 2012, which carried out an initial Pilot Program of approximately 11,000 metered connections between Fiscal Years 2013 – 2015. In Fiscal Year 2019 the citywide AMI implementation approach, project budget and timeline for the remaining approximately 270,000 meters were re-evaluated to address productivity issues and take corrective actions, as needed, to guide the rest of the AMI implementation. As a result, construction is anticipated to be completed in Fiscal Year 2024.

Summary of Project Changes: The project cost and schedule have been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 4,479,793	\$ 15,790,875	\$ -	\$ -	\$ 5,353,494	\$ 5,353,495	\$ 6,683,035	\$ -	\$ -	\$ -	\$ 37,660,693
Water Utility - CIP Funding Source	700010	10,459,362	36,838,867	-	-	12,491,486	12,491,486	15,593,747	-	-	-	87,874,948
Total		\$ 14,939,155	\$ 52,629,742	\$ -	\$ -	\$ 17,844,980	\$ 17,844,981	\$ 22,276,782	\$ -	\$ -	\$ -	\$ 125,535,641

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Alvarado 2nd Extension Pipeline / S12013

Water - Distribution Sys - Transmission

Council District:	2 3 7
Community Planning:	Mission Valley; Mission Bay Park; Old San Diego
Project Status:	Continuing
Duration:	2016 - 2025
Improvement Type:	Expansion

Priority Score:	92
Priority Category:	Medium
Contact Information:	Bose, Sheila 619-533-4698 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 Napa St. 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 total project cost increased by \$27.4 million due to expanded scope and escalating costs of additional water mains along Sea World Drive, Fashion Valley Rd. and Morena Blvd. Additionally, \$2.5 million was de-appropriated by City Council in the Fiscal Year 2020 Year-End CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 4,971,194	\$ 4,253,047	\$ -	\$ -	\$ 30,201,892	\$ 30,979,744	\$ 10,092,653	\$ -	\$ -	\$ -	\$ 80,498,531
Total		\$ 4,971,194	\$ 4,253,047	\$ -	\$ -	\$ 30,201,892	\$ 30,979,744	\$ 10,092,653	\$ -	\$ -	\$ -	\$ 80,498,531

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Alvarado Trunk Sewer Phase IV / S15019

Wastewater - Collection Sys - Trunk Swr

Council District:	7 9	Priority Score:	84
Community Planning:	Navajo; College Area	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Jaro, Janice
Duration:	2015 - 2024		619-533-3851
Improvement Type:	Replacement		jjaro@saniego.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 began in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2023.

Summary of Project Changes: The total project cost increased by \$5.5 million due to current construction industry estimates. Additionally, \$300,000 was appropriated in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 4,292,918	\$ 8,127,081	\$ 24,660,000	\$ -	\$ 13,019,000	\$ 10,080,009	\$ -	\$ -	\$ -	\$ -	\$ 60,179,009
Total		\$ 4,292,918	\$ 8,127,081	\$ 24,660,000	\$ -	\$ 13,019,000	\$ 10,080,009	\$ -	\$ -	\$ -	\$ -	\$ 60,179,009

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Catalina 12inch Cast Iron Mains / S12008

Water - Distribution Sys - Transmission

Council District:	2	Priority Score:	98
Community Planning:	Peninsula	Priority Category:	High
Project Status:	Continuing	Contact Information:	Salem, Nicole
Duration:	2014 - 2022		619-533-7443
Improvement Type:	Replacement		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 is anticipated to be completed in Fiscal Year 2021.

Summary of Project Changes: The total project cost decreased by \$350,000, that was de-appropriated by City Council in the Fiscal Year 2020 Year-End CIP Budget Monitoring action, due to the release of funds not needed to complete the project. The project schedule has been updated for Fiscal Year 2021 due to scope revisions resulting in project delays.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
PFFA-Water Rev Bonds Series 2016A	700095	\$ 3,433	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,433
Water Utility - CIP Funding Source	700010	12,340,591	275,976	-	-	-	-	-	-	-	-	12,616,567
Total		\$ 12,344,024	\$ 275,975	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,620,000

Public Utilities

Chollas Building / S11025

Bldg - Operations Facility / Structures

Council District:	4	Priority Score:	77
Community Planning:	Mid-City: Eastern Area	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Lewis, Nikki
Duration:	2010 - 2022		619-533-6653
Improvement Type:	Replacement		nlewis@sandiego.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 2021.

Summary of Project Changes: The total project cost increased by \$1.8 million due to additional project scope for IT network equipment and installation, specialized audio visual (AV) equipment and installation, and unforeseen contaminated soils. Additionally, \$3.0 million was allocated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 37,444,110	\$ 7,967,362	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45,411,473
Water Utility Operating Fund	700011	250,475	-	-	-	-	-	-	-	-	-	250,475
Total		\$ 37,694,585	\$ 7,967,362	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45,661,948

Public Utilities

Cielo & Woodman Pump Station / S12012

Bldg - Water - Pump Stations

Council District:	4	Priority Score:	90
Community Planning:	Southeastern (Encanto Neighborhoods)	Priority Category:	High
Project Status:	Continuing	Contact Information:	Ammerlahn, Parita
Duration:	2014 - 2023		619-533-5406
Improvement Type:	Expansion		pammerlahn@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 2021. 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 schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,112,729	\$ 1,565,270	\$ 1,200,000	\$ -	\$ 2,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 6,878,000
Total		\$ 1,112,729	\$ 1,565,270	\$ 1,200,000	\$ -	\$ 2,000,000	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 6,878,000

Public Utilities

Corrosion Control / AKA00001

Water - Distribution Sys - Transmission

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021		FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
					Anticipated								
Water Utility - CIP Funding Source	700010	\$ -	\$ 200,000	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000
Total		\$ -	\$ 200,000	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Public Utilities

El Monte Pipeline No 2 / S10008

Water - Distribution Sys - Distribution

Council District:	7	Priority Score:	86
Community Planning:	Navajo	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Ammerlahn, Parita
Duration:	2018 - 2025		619-533-5406
Improvement Type:	Replacement - Rehab		pammerlahn@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 2020 and is anticipated to be completed in Fiscal Year 2022. Construction is scheduled to start in Fiscal Year 2022 and is anticipated to be completed in Fiscal Year 2024.

Summary of Project Changes: The total project cost increased by \$12 million due to additions to project scope and increased construction estimate. Additionally, the project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 3,029,518	\$ 1,417,502	\$ 2,000,000	\$ -	\$ 6,200,000	\$ 8,800,000	\$ 3,052,001	\$ -	\$ -	\$ -	\$ 24,499,021
Water Utility Operating Fund	700011	979	-	-	-	-	-	-	-	-	-	979
Total		\$ 3,030,497	\$ 1,417,502	\$ 2,000,000	\$ -	\$ 6,200,000	\$ 8,800,000	\$ 3,052,001	\$ -	\$ -	\$ -	\$ 24,500,001

Public Utilities

EMTS Boat Dock Esplanade / S00319

Bldg - MWWWD - Laboratories

Council District:	2	Priority Score:	81
Community Planning:	Peninsula	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Choi, Jong
Duration:	2018 - 2023		619-533-5493
Improvement Type:	New		jchoi@sanidiego.gov

Description: This project provides for the design and construction of the Environmental Monitoring and Technical Services (EMTS) Laboratory Boat esplanade. Approximately 33 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 (MWWWD) 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 was completed in Fiscal Year 2020. Construction is anticipated to begin in Fiscal Year 2021 and is anticipated to be completed in Fiscal Year 2022.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 564,608	\$ 853,926	\$ 2,012,316	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,430,851
Total		\$ 564,608	\$ 853,926	\$ 2,012,316	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,430,851

Operating Budget Impact

Department - Fund	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Public Utilities - METRO SEWER UTILITY	FTEs 0.00	0.00	0.00	0.00	0.00
Public Utilities - METRO SEWER UTILITY	Total Impact \$ -	-	(14,040)	(14,040)	(14,040)

Public Utilities

Freeway Relocation / AKB00002

Water - Distribution Sys - Distribution

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 2021 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 2021	FY 2021		FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
					Anticipated	Actual							
Water Utility - CIP Funding Source	700010	\$ 2,121,694	\$ 468,080	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 2,989,774
Total		\$ 2,121,694	\$ 468,080	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000	\$ 100,000	\$ 100,000	\$ -	\$ -	\$ 2,989,774

Public Utilities

Groundwater Asset Development Program / ABM00001

Bldg - Water - Wells

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Danek, Karina
Duration:	2010 - 2040		619-533-7402
Improvement Type:	Replacement		kdanek@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 2035.

Summary of Project Changes: The annual project cost for Fiscal Year 2021 decreased by \$2.6 million due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,753,779	\$ 1,246,220	\$ -	\$ -	\$ 1,206,672	\$ 76,718	\$ 79,097	\$ 116,501	\$ -	\$ -	\$ 4,478,988
Total		\$ 1,753,779	\$ 1,246,220	\$ -	\$ -	\$ 1,206,672	\$ 76,718	\$ 79,097	\$ 116,501	\$ -	\$ -	\$ 4,478,988

Public Utilities

Harbor Drive Trunk Sewer / S18006

Wastewater - Collection Sys - Trunk Swr

Council District:	3 8	Priority Score:	89
Community Planning:	Barrio Logan; Centre City	Priority Category:	High
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2016 - 2023		619-533-5105
Improvement Type:	Replacement		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 Tectite 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 and Downtown Plans 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 2022.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 1,608,424	\$ 8,182,825	\$ 4,000,000	\$ -	\$ 7,253,751	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,045,001
Total		\$ 1,608,424	\$ 8,182,825	\$ 4,000,000	\$ -	\$ 7,253,751	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,045,001

Public Utilities

Instrumentation and Control / AKB00007

Water - Distribution Sys - Distribution

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 2021 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 2021	FY 2021		FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
					Anticipated	Actual							
Water Utility - CIP Funding Source	700010	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ 1,037,680	\$ 2,172,366	\$ 7,190,251	\$ -	\$ -	\$ -	\$ 10,600,297
Total		\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ 1,037,680	\$ 2,172,366	\$ 7,190,251	\$ -	\$ -	\$ -	\$ 10,600,297

Public Utilities

Kearny Mesa Trunk Sewer / S20000

Wastewater - Collection Sys - Trunk Swr

Council District:	6	Priority Score:	77
Community Planning:	Kearny Mesa	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Ammerlahn, Parita
Duration:	2019 - 2027		619-533-5406
Improvement Type:	Replacement - Rehab		pammerlahn@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 2021 and is anticipated to be completed in Fiscal Year 2024. Construction is anticipated to begin in Fiscal Year 2025 and is anticipated to be completed in Fiscal Year 2027.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 135,997	\$ 364,002	\$ 2,000,000	\$ -	\$ 5,000,000	\$ 10,000,000	\$ 6,700,000	\$ -	\$ -	\$ -	\$ 24,200,000
Total		\$ 135,997	\$ 364,002	\$ 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

Council District:	1	Priority Score:	82
Community Planning:	La Jolla	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Salem, Nicole
Duration:	2015 - 2022		619-533-7443
Improvement Type:	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 2021.

Summary of Project Changes: The total project cost increased by \$1.9 million due to project scope changes and an additional task added for construction management services. Additionally, \$1.0 million was allocated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action, and \$350,000 was allocated in the Fiscal Year 2020 Year-End CIP Budget Monitoring action. The project schedule and cost have been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 9,565,135	\$ 1,332,864	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,398,000
Total		\$ 9,565,135	\$ 1,332,864	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,398,000

Public Utilities

La Jolla View Reservoir / S15027

Water - Distribution Sys - Distribution

Council District:	1	Priority Score:	80
Community Planning:	La Jolla	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Van Martin, Debbie
Duration:	2012 - 2027		619-533-6651
Improvement Type:	Expansion		dvanmartin@sanidiego.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 the 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 2022. An Environmental Impact Report is required due to night work and other impacts created by this project. Construction is scheduled to begin in Fiscal Year 2023 and is anticipated be completed in Fiscal Year 2026.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified	Project
Water Utility - CIP Funding Source	700010	\$ 3,132,815	\$ 2,247,185	\$ 200,000	Anticipated	\$ -	\$ 2,637,500	\$ 8,512,500	\$ 5,135,157	\$ 5,135,157	\$ -	\$ -
Total		\$ 3,132,815	\$ 2,247,185	\$ 200,000		\$ -	\$ 2,637,500	\$ 8,512,500	\$ 5,135,157	\$ 5,135,157	\$ -	\$ 27,000,315

Public Utilities

Large Diameter Water Transmission PPL / AKA00003

Water - Distribution Sys - Transmission

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 deteriorated in 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: The annual project cost for Fiscal Year 2021 increased by \$2.7 million due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021		FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
					Anticipated								
Water Utility - CIP Funding Source	700010	\$ 32,184,708	\$ 19,072,013	\$ 6,558,557	\$ -	\$ 10,068,023	\$ 15,229,068	\$ 10,915,305	\$ -	\$ -	\$ -	\$ -	\$ 94,027,674
Total		\$ 32,184,708	\$ 19,072,013	\$ 6,558,557	\$ -	\$ 10,068,023	\$ 15,229,068	\$ 10,915,305	\$ -	\$ -	\$ -	\$ -	\$ 94,027,674

Public Utilities

Little McGonigle Ranch Road Pipeline / S00069

Water - Distribution Sys - Transmission

Council District:	1	Priority Score:	70
Community Planning:	Del Mar Mesa; Pacific Highlands Ranch	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Taleghani, Reza
Duration:	2004 - 2021		619-533-3673
Improvement Type:	Expansion		rtaleghani@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. The project was divided into 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 2021. The design of Phase 3 is not scheduled at this time and will be completed under a separate project.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Del Mar Mesa FBA	400089	\$ 756,999	\$ 743,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
Pacific Highlands Ranch FBA	400090	4,205,822	294,178	-	-	-	-	-	-	-	-	4,500,000
Total		\$ 4,962,821	\$ 1,037,178	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,000,000

Public Utilities

Lower Otay Outlet Tower / S12018

Bldg - Water - Reservoirs/Dams

Council District:	Non City	Priority Score:	89
Community Planning:	Non City	Priority Category:	High
Project Status:	Continuing	Contact Information:	Hong, Vien
Duration:	2014 - 2026		858-292-6473
Improvement Type:	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 2021 and be completed in Fiscal Year 2025. Construction is anticipated to begin in Fiscal Year 2025 and be completed in Fiscal Year 2026.

Summary of Project Changes: \$1.0 million was de-appropriated as part of the Fiscal Year 2020 Year-End CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021		FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
					Anticipated								
Water Utility - CIP Funding Source	700010	\$ 301,015	\$ 689,795	\$ -	\$ -	\$ -	\$ 655,053	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 2,645,864
Total		\$ 301,015	\$ 689,795	\$ -	\$ -	\$ -	\$ 655,053	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ 2,645,864

Public Utilities

MBC Dewatering Centrifuges Replacement / S00339

Bldg - MWWd - Treatment Plants

Council District:	6	Priority Score:	83
Community Planning:	Non City	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2012 - 2021		619-533-5105
Improvement Type:	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 33 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. The installation construction has been completed, however there are several outstanding issues with all the centrifuges. For that reason, PUD staff at MBC has not accepted the equipment. In addition, As-Built were not completed and will need to be updated per the ongoing equipment revisions.

Summary of Project Changes: The total project cost increased by \$300,000 due to costs related to 3rd party machinery inspection of the centrifuges. Additionally, the project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 934	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	934
Metro Sewer Utility - CIP Funding Source	700009	11,630,905	477,979	300,000	-	-	-	-	-	-	-	12,408,884
Metropolitan Sewer Utility Fund	700001	12,625	-	-	-	-	-	-	-	-	-	12,625
Total		\$ 11,644,464	\$ 477,978	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	12,422,443

Public Utilities

MBC Equipment Upgrades / S17013

Bldg - MWWd - Treatment Plants

Council District:	6	Priority Score:	85
Community Planning:	Kearny Mesa	Priority Category:	High
Project Status:	Continuing	Contact Information:	Barhoumi, Amer
Duration:	2017 - 2024		858-292-6364
Improvement Type:	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. Approximately 33 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

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 July 2020 and is anticipated to be completed in Fiscal Year 2024. This project's construction contract is being bundled with the Pure Water Program's construction contract for efficiency purposes.

Summary of Project Changes: The total project cost increased by \$4.7 million in Fiscal Year 2021 due to the completion of design and the review of plans, specifications and schedule by the project's construction management consultants. Additionally, \$11.1 million was de-appropriated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 459,545	\$ 3,469,960	\$ 1,961,315	\$ -	\$ 14,428,232	\$ 14,680,612	\$ 7,094,774	\$ 3,392,622	\$ -	\$ -	\$ 45,487,061
Total		\$ 459,545	\$ 3,469,960	\$ 1,961,315	\$ -	\$ 14,428,232	\$ 14,680,612	\$ 7,094,774	\$ 3,392,622	\$ -	\$ -	\$ 45,487,061

Public Utilities

Metro Treatment Plants / ABO00001

Bldg - MWWd - Treatment Plants

Council District:	2 6 7 8	Priority Score:	Annual
Community Planning:	Peninsula; University; Tijuana River Valley	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	Replacement		tphung@sandiego.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 33 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: The annual project cost for Fiscal Year 2021 decreased by \$837,483 due to updates to the schedule of sub-projects. Additionally, \$1.7 million was allocated in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action, and \$1.7 million was allocated in the Fiscal Year 2020 Year-End CIP Budget Monitoring action.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 8,477,791	\$ 4,945,568	\$ 5,639,170	\$ -	\$ 1,504,418	\$ 5,607,828	\$ 1,441,601	\$ 582,507	\$ -	\$ -	\$ 28,198,884
Total		\$ 8,477,791	\$ 4,945,568	\$ 5,639,170	\$ -	\$ 1,504,418	\$ 5,607,828	\$ 1,441,601	\$ 582,507	\$ -	\$ -	\$ 28,198,884

Public Utilities

Metropolitan System Pump Stations / ABP00002

Bldg - MWWWD - Pump Stations

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 33 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 2021 decreased by \$1.0 million due to updates to the schedule of sub-projects. Additionally, \$350,000 was allocated by City Council in Fiscal Year 2020 Mid-Year CIP Budget Monitoring action.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 442,223	\$ 547,160	\$ -	\$ -	\$ 726,056	\$ 6,123,077	\$ 4,482,685	\$ 357,545	\$ -	\$ -	\$ 12,678,747
Total		\$ 442,223	\$ 547,160	\$ -	\$ -	\$ 726,056	\$ 6,123,077	\$ 4,482,685	\$ 357,545	\$ -	\$ -	\$ 12,678,747

Public Utilities

Metropolitan Waste Water Department Trunk Sewers / AJB00001

Wastewater - Collection Sys - Trunk Swr

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 33 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 2021 increased by \$2.2 million due to updates to the schedule of sub-projects. Additionally, \$320,000 was allocated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action, and \$1.7 million was de-appropriated in the Fiscal Year 2020 Year End CIP Budget Monitoring action.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 9,331,894	\$ 1,510,880	\$ -	\$ -	\$ 3,482,496	\$ 4,649,107	\$ 15,869,105	\$ 15,696,364	\$ -	\$ -	\$ 50,539,847
Metropolitan Sewer Utility Fund	700001	23,059	-	-	-	-	-	-	-	-	-	23,059
Muni Sewer Utility - CIP Funding Source	700008	11,781,181	4,798,199	6,000,000	-	6,696,886	2,723,484	131,656	-	-	-	32,131,406
Total		\$ 21,136,135	\$ 6,309,079	\$ 6,000,000	\$ -	\$ 10,179,382	\$ 7,372,591	\$ 16,000,761	\$ 15,696,364	\$ -	\$ -	\$ 82,694,312

Public Utilities

Miramar Clearwell Improvements / S11024

Bldg - Water - Standpipes

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

Description: This project constructs two new potable water storage clearwells, associated piping and facilities for a total storage capacity of 58.3 million gallons (MG); removes existing Clearwell Nos. 1 and 2 and associated piping and facilities; constructs a new chlorine contact chamber with an adjoining lift station for a maximum plant capacity of 215 million gallons per day (mgd), a new maintenance building, a new guard house, and installs 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: None

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 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 104,319,757	\$ 16,004,491	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,324,248
Water Utility Operating Fund	700011	4,495	-	-	-	-	-	-	-	-	-	4,495
Total		\$ 104,324,252	\$ 16,004,491	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 120,328,744

Public Utilities

Montezuma/Mid-City Pipeline Phase II / S11026

Water - Distribution Sys - Distribution

Council District:	7 9	Priority Score:	98
Community Planning:	College Area; Navajo	Priority Category:	High
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2013 - 2024		619-533-5105
Improvement Type:	Expansion		bvitelle@sandiego.gov

Description: This project will construct a new 66-inch pipeline from the Alvarado Water Treatment Plant Clearwells to the 69th and Mohawk pump station. Approximate pipeline length is 5,297 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 and Navajo Community Planning Groups and is in conformance with the City's General Plan.

Schedule: Design began in Fiscal Year 2013 and was completed in Fiscal Year 2019. Easement acquisition began in Fiscal Year 2017 and was completed in Fiscal Year 2018. Construction began in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2022.

Summary of Project Changes: The total project cost decreased by \$6.5 million due to current construction bid results. Additionally, \$1.6 million was allocated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action, and \$140,000 was de-appropriated as part of the Fiscal Year 2020 Year-End CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 5,809,563	\$ 13,453,525	\$ 18,000,000	\$ -	\$ 8,745,553	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46,008,641
Water Utility Operating Fund	700011	215,112	-	-	-	-	-	-	-	-	-	215,112
Total		\$ 6,024,674	\$ 13,453,525	\$ 18,000,000	\$ -	\$ 8,745,553	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 46,223,753

Public Utilities

Morena Pipeline / S16027

Water - Distribution Sys - Transmission

Council District:	2 6 7	Priority Score:	92
Community Planning:	Linda Vista; Clairemont Mesa; Mission Valley	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Barhoumi, Amer
Duration:	2015 - 2025		858-292-6364
Improvement Type:	Expansion		abarhoumi@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 2021 and is anticipated to be completed in Fiscal Year 2024. This project's construction contract is being bundled with the Pure Water Program's construction contract for efficiency purposes.

Summary of Project Changes: The total project cost decreased by \$14.5 million due to revised SDG&E relocation estimates. Additionally, \$19.1 million was de-appropriated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water SDG&E Utility Relocation	700105	\$ 13,564,385	\$ -	\$ -	\$ 31,606,230	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45,170,616
Water Utility - CIP Funding Source	700010	3,955,374	3,351,974	15,364,419	-	14,598,708	6,899,725	-	-	-	-	44,170,200
Total		\$ 17,519,759	\$ 3,351,974	\$ 15,364,419	\$ 31,606,230	\$ 14,598,708	\$ 6,899,725	\$ -	\$ -	\$ -	\$ -	\$ 89,340,816

Public Utilities

Morena Reservoir Outlet Tower Upgrade / S00041

Bldg - Water - Reservoirs/Dams

Council District:	Non City	Priority Score:	90
Community Planning:	Non City	Priority Category:	High
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2011 - 2024		858-292-6425
Improvement Type:	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: Project is on hold pending results from on-going condition assessment. The project scope is to demolish the existing outlet tower and install a new tower at Moreno Reservoir. During the permitting and environmental review process, it was determined that the outlet tower is eligible for the National Register of Historic Places. Therefore, the project cannot proceed as originally designed without further alternative analysis required by the State to reduce impacts to historic resources. The Public Utilities Department will update the design, which will include the overall condition assessment results for the Moreno Dam.

Summary of Project Changes: The total project cost decreased by \$3.0 million in Fiscal Year 2021. \$3.0 million was de-appropriated by City Council in the Fiscal Year 2020 Year-End CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 322,485	\$ -	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	322,485
Water Utility - CIP Funding Source	700010	1,937,668	1,205,171	-	-	-	11,020,000	9,000,000	-	-	-	23,162,839
Water Utility Operating Fund	700011	14,676	-	-	-	-	-	-	-	-	-	14,676
Total		\$ 2,274,829	\$ 1,205,170	- \$	- \$	- \$	11,020,000	9,000,000	- \$	- \$	- \$	23,500,000

Public Utilities

NCWRP Improvements to 30 mgd / S17012

Bldg - MWWD - Treatment Plants

Council District:	1	Priority Score:	85
Community Planning:	University	Priority Category:	High
Project Status:	Continuing	Contact Information:	Barhoumi, Amer
Duration:	2017 - 2024		858-292-6364
Improvement Type:	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). Approximately 33 percent of all Metro Sewer Utility Fund expenditures related to this project are funded by Participating Agencies.

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 2020 and will be completed in Fiscal Year 2024. This project's construction contract is being bundled with the Pure Water Program's construction contract for efficiency purposes.

Summary of Project Changes: The total project cost increased by \$4.7 million in Fiscal Year 2021 due to the review of plans, specifications and schedule by the project's construction management consultants. Additionally, \$8.9 million was de-appropriated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 2,078,219	\$ 3,004,919	\$ 755,291	\$ -	\$ 11,649,255	\$ 12,683,689	\$ 6,225,886	\$ 2,671,857	\$ -	\$ -	\$ 39,069,117
Total		\$ 2,078,219	\$ 3,004,919	\$ 755,291	\$ -	\$ 11,649,255	\$ 12,683,689	\$ 6,225,886	\$ 2,671,857	\$ -	\$ -	\$ 39,069,117

Public Utilities

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

Water - Distribution Sys - Distribution

Council District:	5	Priority Score:	N/A
Community Planning:	Torrey Highlands	Priority Category:	N/A
Project Status:	Continuing	Contact Information:	Taleghani, Reza
Duration:	2015 - 2021		619-533-3673
Improvement Type:	Expansion		rtaleghani@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 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Torrey Highlands	400094	\$ 458,742	\$ 766,257	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,225,000
Total		\$ 458,742	\$ 766,257	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	1,225,000

Public Utilities

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

Water - Distribution Sys - Transmission

Council District:	3 9	Priority Score:	91
Community Planning:	City Heights; North Park	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2014 - 2023		619-533-5105
Improvement Type:	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 26,090 linear feet of existing cast iron and asbestos cement transmission mains and distribution mains with new mains.

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 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 began in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2022.

Summary of Project Changes: The project schedule and project description have been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 5,565,909	\$ 9,247,141	\$ 14,627,449	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,440,500
Total		\$ 5,565,909	\$ 9,247,141	\$ 14,627,449	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,440,500

Public Utilities

Otay 2nd Pipeline Phase 4 / S20001

Water - Distribution Sys - Transmission

Council District:	Non City	Priority Score:	99
Community Planning:		Priority Category:	High
Project Status:	Continuing	Contact Information:	Ammerlahn, Parita
Duration:	2020 - 2030		619-533-5406
Improvement Type:	Replacement		pammerlahn@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 an amendment to the Otay Water Treatment Plant Service Area Master Plan and is in conformance with the City's General Plan.

Schedule: Design began in Fiscal Year 2020 and is anticipated to be completed in Fiscal Year 2024. Construction is scheduled to begin in Fiscal Year 2025 and is anticipated to be completed in Fiscal Year 2029.

Summary of Project Changes: The total project cost increased by \$6.2 million due to increased construction estimate. Additionally, \$300,000 was appropriated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 245,459	\$ 554,540	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000	\$ 22,208,900	\$ -	\$ 38,008,900
Total		\$ 245,459	\$ 554,540	\$ 5,000,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000,000	\$ 22,208,900	\$ -	\$ 38,008,900

Public Utilities

Otay 2nd Pipeline Steel Replacement Ph 5 / S21000

Water - Distribution Sys - Transmission

Council District:	4	Priority Score:	95
Community Planning:	Otay Mesa	Priority Category:	High
Project Status:	New	Contact Information:	Lyons, Jeffrey
Duration:	2021 - 2027		858-292-6315
Improvement Type:	Replacement		jdlyons@sanidiego.gov

Description: This project will replace the existing 36-inch Steel Cylinder Cement (CMLCS) pipe with 42-inch CMLCS pipe from Balboa Vista Drive south of Seifert Street to the intersection of 60th Street and Tooley Street. The project also includes a new tunneling segment under SR-94.

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 consistent with the Otay Mesa Neighborhood and is in compliance with the City's General Plan.

Schedule: Design is anticipated to begin in Fiscal Year 2021 and is anticipated to be completed in Fiscal Year 2024. Construction is scheduled to begin in Fiscal Year 2024 and is anticipated to be completed in Fiscal Year 2026.

Summary of Project Changes: This is a newly published project for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ -	\$ -	\$ 100,000	\$ -	\$ 1,000,000	\$ 5,000,000	\$ 10,000,000	\$ 2,000,000	\$ 660,000	\$ -	\$ 18,760,000
Total		\$ -	\$ -	\$ 100,000	\$ -	\$ 1,000,000	\$ 5,000,000	\$ 10,000,000	\$ 2,000,000	\$ 660,000	\$ -	\$ 18,760,000

Public Utilities

Otay Second Pipeline Relocation-PA / S15016

Water - Distribution Sys - Transmission

Council District:	Non City	Priority Score:	98
Community Planning:	Non City	Priority Category:	High
Project Status:	Continuing	Contact Information:	Wilson, Leonard
Duration:	2015 - 2027		619-446-5421
Improvement Type:	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 began in Fiscal Year 2019. Subsequent design and construction phases will continue through 2027.

Summary of Project Changes: No significant change has been made to this project for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 331,378	\$ 12,764,792	\$ -	\$ -	\$ 6,000,000	\$ 4,000,000	\$ 4,000,000	\$ -	\$ 948,274	\$ -	\$ 28,044,445
Total		\$ 331,378	\$ 12,764,792	\$ -	\$ -	\$ 6,000,000	\$ 4,000,000	\$ 4,000,000	\$ -	\$ 948,274	\$ -	\$ 28,044,445

Public Utilities

Pacific Beach Pipeline South (W) / S12015

Water - Distribution Sys - Transmission

Council District:	2	Priority Score:	92
Community Planning:	Pacific Beach; Midway - Pacific Highway; Mission Beach; Peninsula	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Jaro, Janice
Duration:	2012 - 2022		619-533-3851
Improvement Type:	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: The total project cost increased by \$1.7 million due to unforeseen site conditions.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 34,919,679	\$ 5,190,763	\$ 1,656,490	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,766,933
Total		\$ 34,919,679	\$ 5,190,763	\$ 1,656,490	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 41,766,933

Public Utilities

Pipeline Rehabilitation / AJA00002

Wastewater - Collection Sys - Main

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 2021 decreased by \$835,010 due to updates to the schedule of sub-projects. Additionally, \$4.0 million was allocated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 85,878,622	\$ 37,914,638	\$ 11,867,986	\$ -	\$ 936,385	\$ -	\$ 7,909,749	\$ 17,475,198	\$ -	\$ -	\$ 161,982,579
Total		\$ 85,878,622	\$ 37,914,638	\$ 11,867,986	\$ -	\$ 936,385	\$ -	\$ 7,909,749	\$ 17,475,198	\$ -	\$ -	\$ 161,982,579

Public Utilities

Pressure Reduction Facility Upgrades / AKA00002

Water - Distribution Sys - Transmission

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 requires 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 2021 decreased by \$2.2 million due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021		FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
					Anticipated								
Water Utility - CIP Funding Source	700010	\$ 952,068	\$ 897,931	\$ 1,200,000	\$ -	\$	\$ 878,146	\$ 767,179	\$ 790,975	\$ -	\$ -	\$ -	\$ 5,486,300
Total		\$ 952,068	\$ 897,931	\$ 1,200,000	\$ -	\$	\$ 878,146	\$ 767,179	\$ 790,975	\$ -	\$ -	\$ -	\$ 5,486,300

Public Utilities

PS2 Power Reliability & Surge Protection / S00312

Bldg - MWWd - Pump Stations

Council District:	2	Priority Score:	90
Community Planning:	Peninsula	Priority Category:	High
Project Status:	Continuing	Contact Information:	Choi, Jong
Duration:	2011 - 2023		619-533-5493
Improvement Type:	Expansion		jchoi@sanidiego.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 33 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: The total project cost increased by \$3.5 million due to extended Design Consultant and Construction Management's contracts.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 52,245,051	\$ 7,336,014	\$ 12,955,568	\$ 3,475,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 76,011,633
Metropolitan Sewer Utility Fund	700001	64,166	-	-	-	-	-	-	-	-	-	64,166
Total		\$ 52,309,217	\$ 7,336,014	\$ 12,955,568	\$ 3,475,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 76,075,800

Public Utilities

Pump Station Restorations / ABP00001

Bldg - MWWd - Pump Stations

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 2021 increased by \$2.2 million due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 40,008	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 40,008
Muni Sewer Utility - CIP Funding Source	700008	7,909,707	1,931,800	2,800,000	-	367,553	896,178	5,486,277	5,345,631	-	-	24,737,146
Total		\$ 7,949,715	\$ 1,931,799	\$ 2,800,000	\$ -	\$ 367,553	\$ 896,178	\$ 5,486,277	\$ 5,345,631	\$ -	\$ -	\$ 24,777,154

Public Utilities

PURE Water Program / ALA00001

Potable Reuse

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Dorman, Amy
Duration:	2015 - 2040		858-614-5504
Improvement Type:	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 Phase I project will also include an upgrade to the MBC Facility. The capacity and location of the Phase II Pure Water project 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: While the annual project cost for Fiscal Year 2021 decreased by \$456.8 million due to AGC litigation, 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 project's construction management consultants. Additionally, \$9.3 million was de-appropriated by City Council in Fiscal Year 2020 Mid-Year Monitoring action. 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 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Metro SDG&E Utility Relocation	700104	\$ 7,527,418	\$ -	\$ -	\$ 28,446,868	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 35,974,287
Metro Sewer Utility - CIP Funding Source	700009	56,968,371	257,235,263	-	-	157,345,237	167,788,058	69,877,754	28,032,289	-	-	737,246,972
Water SDG&E Utility Relocation	700105	11,395,096	-	-	19,307,663	-	-	-	-	-	-	30,702,759
Water Utility - CIP Funding Source	700010	64,573,206	243,129,285	-	-	198,275,307	208,935,444	148,928,913	68,659,189	2,244,947	-	934,746,291
Total		\$ 140,464,091	\$ 500,364,548	\$ -	\$ 47,754,531	\$ 355,620,544	\$ 376,723,502	\$ 218,806,667	\$ 96,691,478	\$ 2,244,947	\$ -	\$ 1,738,670,309

Operating Budget Impact

Department - Fund	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025
Public Utilities - METRO SEWER UTILITY	FTEs	0.00	0.00	0.00	8.67
Public Utilities - METRO SEWER UTILITY	Total Impact \$	40,000	-	800,000	9,949,900
Public Utilities - WATER UTILITY OPERATING	FTEs	5.00	12.00	15.00	44.33
Public Utilities - WATER UTILITY OPERATING	Total Impact \$	671,667	1,513,220	2,792,856	18,815,731

Public Utilities

Recycled Water Systems Upgrades / AHC00004

Reclaimed Water System - Pipelines

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	Expansion		tphung@sandiego.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: No significant change has been made to this project for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 18,908	\$ 67,990	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 86,899
Total		\$ 18,908	\$ 67,990	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 86,899

Public Utilities

Recycled Water Tank Modifications / S12014

Reclaimed Water System - Reservoirs

Council District:	5 8	Priority Score:	90
Community Planning:	Scripps Miramar Ranch; Rancho Peñasquitos; Tijuana River Valley	Priority Category:	High
Project Status:	Continuing	Contact Information:	Ammerlahn, Parita
Duration:	2014 - 2022		619-533-5406
Improvement Type:	Expansion		pammerlahn@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 Peñasquitos, 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: The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 1,394,943	\$ 105,056	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000
Total		\$ 1,394,943	\$ 105,056	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000

Public Utilities

SBWR Plant Demineralization / S00310

Bldg - MWWd - Treatment Plants

Council District:	8	Priority Score:	77
Community Planning:	Tijuana River Valley	Priority Category:	Medium
Project Status:	Warranty	Contact Information:	Vitelle, Brian
Duration:	2013 - 2021		619-533-5105
Improvement Type:	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 33 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 reduces 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 2020.

Summary of Project Changes: The project schedule has been updated for Fiscal Year 2021. This project is anticipated to be closed by the end of the Fiscal Year.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Metro Sewer Utility - CIP Funding Source	700009	\$ 5,409,681	\$ 563,614	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,973,295
Metropolitan Sewer Utility Fund	700001	399	-	-	-	-	-	-	-	-	-	399
Total		\$ 5,410,080	\$ 563,614	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,973,695

Public Utilities

Sewer CIP Emergency Reserve / ABT00007

Bldg - Other City Facility / Structures

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Rashid, Surrayya
Duration:	2010 - 2040		858-654-4112
Improvement Type:	Betterment		srashid@sanidiego.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 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	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	1,361,029	5,638,971	-	-	-	-	-	-	-	-	7,000,000
Total		\$ 1,361,029	\$ 10,638,970	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,000,000

Public Utilities

Sewer Main Replacements / AJA00001

Wastewater - Collection Sys - Main

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 2021 increased by \$23.1 million due to updates to the schedule of sub-projects. Additionally, \$8.8 million was allocated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action, and \$2.0 million was de-appropriated in the Fiscal Year 2020 Year-End CIP Budget Monitoring action.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 4,557,770	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,557,770
Muni Sewer Utility - CIP Funding Source	700008	184,487,497	64,915,605	55,904,294	-	53,319,274	53,020,177	44,544,012	44,375,596	-	-	500,566,455
Municipal Sewer Revenue Fund	700000	695,946	-	-	-	-	-	-	-	-	-	695,946
Total		\$ 189,741,213	\$ 64,915,604	\$ 55,904,294	\$ -	\$ 53,319,274	\$ 53,020,177	\$ 44,544,012	\$ 44,375,596	\$ -	\$ -	\$ 505,820,171

Public Utilities

South Mission Valley Trunk Sewer Ph II / S21002

Wastewater - Collection Sys - Trunk Swr

Council District:	7	Priority Score:	83
Community Planning:	Mission Valley	Priority Category:	Medium
Project Status:	New	Contact Information:	Phung, Tung
Duration:	2021 - 2026		858-292-6425
Improvement Type:	Replacement		tphung@sanidiego.gov

Description: This project replaces approximately 1,800 Linear Feet (LF) of 24-inch with new 27-inch sewer mains, 800 LF of 24-inch with new 36-inch sewer mains, 6,900 LF of 27-inch with new 36-inch sewer mains, and installs new sewer mains of approximately 3,700 LF of 10-inch, 300 LF of 15-inch and 100 LF of 18-inch. Total miles are 2.6 and mains range from 15-inch to 36-inch.

Justification: This project is needed for inadequate capacity and potential sewer overflows.

Operating Budget Impact: None.

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

Schedule: Design is anticipated to begin in Fiscal Year 2021 and is anticipated to be completed in Fiscal Year 2022. Construction is scheduled to begin in Fiscal Year 2023 and is anticipated to be completed in Fiscal Year 2025.

Summary of Project Changes: This is a newly published project for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ -	\$ -	\$ 100,000	\$ -	\$ 1,000,000	\$ 2,500,000	\$ 7,000,000	\$ 2,400,000	\$ 1,000,000	\$ -	\$ 14,000,000
Total		\$ -	\$ -	\$ 100,000	\$ -	\$ 1,000,000	\$ 2,500,000	\$ 7,000,000	\$ 2,400,000	\$ 1,000,000	\$ -	\$ 14,000,000

Public Utilities

Standpipe and Reservoir Rehabilitations / ABL00001

Bldg - Water - Standpipes

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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: \$1.6 million was allocated by City Council in the Fiscal Year 2020 Year-End CIP Budget Monitoring action. The annual project cost for Fiscal Year 2021 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 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Grant Fund-Enterprise-State	710001	\$ 2,555,158	\$ (658)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,554,500
Water Utility - CIP Funding Source	700010	11,747,811	10,849,094	3,261,000	-	10,412,249	18,566,778	17,620,807	-	-	-	72,457,738
Water Utility Operating Fund	700011	35,430	-	-	-	-	-	-	-	-	-	35,430
Total		\$ 14,338,398	\$ 10,848,434	\$ 3,261,000	\$ -	\$ 10,412,249	\$ 18,566,778	\$ 17,620,807	\$ -	\$ -	\$ -	\$ 75,047,667

Public Utilities

Tecolote Canyon Trunk Sewer Improvement / S15020

Wastewater - Collection Sys - Trunk Swr

Council District:	2 6 7	Priority Score:	84
Community Planning:	Clairemont Mesa; Linda Vista	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Salem, Nicole
Duration:	2015 - 2026		619-533-7443
Improvement Type:	Replacement - Rehab		nsalem@sandiego.gov

Description: This project upsizes approximately 3.3 miles of existing 15 to 21-inch vitrified clay (VC) sewer pipe to new 18 to 30 inch PVC in Tecolote Canyon to provide additional capacity, and to rehabilitate approximately 1.42 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 in Fiscal Year 2021. Construction is scheduled to begin in Fiscal Year 2021 and is anticipated to be completed in Fiscal Year 2024.

Summary of Project Changes: \$6.0 million was de-appropriated by the City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Muni Sewer Utility - CIP Funding Source	700008	\$ 1,864,264	\$ 315,735	\$ 2,000,000	\$ -	\$ 16,000,000	\$ 14,820,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000,000
Total		\$ 1,864,264	\$ 315,735	\$ 2,000,000	\$ -	\$ 16,000,000	\$ 14,820,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000,000

Public Utilities

Tierrasanta (Via Dominique) Pump Station / S12040

Bldg - Water - Pump Stations

Council District:	7	Priority Score:	96
Community Planning:	Tierrasanta	Priority Category:	High
Project Status:	Continuing	Contact Information:	Van Martin, Debbie
Duration:	2010 - 2022		619-533-6651
Improvement Type:	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 2021.

Summary of Project Changes: The total project cost increased by \$450,000 due to costs associated with construction operations extending beyond the original schedule due to unforeseen conditions. Additionally, \$200,000 was allocated, by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action, and \$60,000 was allocated in the Fiscal Year 2020 Year-End CIP Budget Monitoring action. The project cost and schedule have been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 15,289,703	\$ 804,292	\$ 190,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,283,996
Total		\$ 15,289,703	\$ 804,292	\$ 190,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,283,996

Public Utilities

University Ave Pipeline Replacement / S11021

Water - Distribution Sys - Distribution

Council District:	3	Priority Score:	93
Community Planning:	Uptown; North Park	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Vitelle, Brian
Duration:	2011 - 2022		619-533-5105
Improvement Type:	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 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 2021.

Summary of Project Changes: The total project cost increased by \$350,000 due to the SR 163 bridge crossing changes in scope and additional Caltrans requirements which was allocated by City Council in the Fiscal Year 2020 Year-End CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 26,298,822	\$ 1,120,973	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,419,796
Water Utility Operating Fund	700011	130,204	-	-	-	-	-	-	-	-	-	130,204
Total		\$ 26,429,026	\$ 1,120,973	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,550,000

Public Utilities

University Heights Reservoir Rehabilitation / S20002

Bldg - Water - Reservoirs/Dams

Council District:	3	Priority Score:	94
Community Planning:	North Park	Priority Category:	High
Project Status:	Continuing	Contact Information:	Aberra, Nitsuh
Duration:	2020 - 2025		619-533-3167
Improvement Type:	Replacement		naberra@sandiego.gov

Description: Install Supervisory Control and Data Acquisition (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 North Park Community Plan and is in compliance with the City's General Plan.

Schedule: Design is scheduled to begin in 2021 and is anticipated to be completed in 2022. Construction is scheduled to begin in 2022 and is anticipated to be completed in 2024.

Summary of Project Changes: The project schedule has been revised for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021		FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
					Anticipated								
Water Utility - CIP Funding Source	700010	\$ 63,502	\$ 936,497	\$ 1,000,000	\$ -	\$	\$ 4,400,000	\$ 7,300,000	\$ 4,500,000	\$ -	\$ -	\$ -	\$ 18,200,000
Total		\$ 63,502	\$ 936,497	\$ 1,000,000	\$ -	\$	\$ 4,400,000	\$ 7,300,000	\$ 4,500,000	\$ -	\$ -	\$ -	\$ 18,200,000

Public Utilities

Unscheduled Projects / AJA00003

Wastewater - Collection Sys - Main

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021					FY 2025	Future FY	Unidentified Funding	Project Total
					Anticipated	FY 2022	FY 2023	FY 2024					
Historical Fund	X999	\$ 552,840	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 552,840
Muni Sewer Utility - CIP Funding Source	700008	8,326,642	143,343	-	-	-	-	-	-	-	-	-	8,469,985
Municipal Sewer Revenue Fund	700000	28,390	-	-	-	-	-	-	-	-	-	-	28,390
Total		\$ 8,907,872	\$ 143,342	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,051,215

Public Utilities

Upas St Pipeline Replacement / S11022

Water - Distribution Sys - Distribution

Council District:	2 3	Priority Score:	93
Community Planning:	Uptown; Greater North Park; Midway - Pacific Highway	Priority Category:	Medium
Project Status:	Continuing	Contact Information:	Ammerlahn, Parita
Duration:	2011 - 2023		619-533-5406
Improvement Type:	Replacement		pammerlahn@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 completed in Fiscal Year 2021.

Summary of Project Changes: The total project cost decreased by \$208,340 due to funds being transferred to the O&M budget for a revegetation agreement. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	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	32,781,423	2,053,099	-	-	-	-	-	-	-	-	34,834,522
Water Utility Operating Fund	700011	113,103	-	-	-	-	-	-	-	-	-	113,103
Total		\$ 35,334,887	\$ 2,053,098	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37,387,986

Public Utilities

Water & Sewer Group Job 816 (W) / S13015

Water - Distribution Sys - Distribution

Council District:	2	Priority Score:	90
Community Planning:	Pacific Beach	Priority Category:	Low
Project Status:	Continuing	Contact Information:	Sleiman, Alexander
Duration:	2013 - 2022		619-533-7588
Improvement Type:	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. This project also installs curb ramps and paving due to modifications to a pressure reducing station.

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. Predesign began in Fiscal Year 2013 and was completed in Fiscal Year 2015. Design and Construction of phase 1 began in Fiscal Year 2015 and was completed in Fiscal Year 2016. Design and Construction of phase 2 began in Fiscal Year 2016 and was completed in Fiscal Year 2017. Design and Construction of phase 3 began in Fiscal Year 2017 and was completed in Fiscal Year 2018. Design and Construction of phase 4 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 \$280,000 due to a scope change and additional tasks to complete the project. Additionally, \$200,000 was allocated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action, and \$80,000 was allocated in the Fiscal Year 2020 Year-End CIP Budget Monitoring action. The project schedule has been updated for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 15,824,322	\$ 2,375,069	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,199,392
Total		\$ 15,824,322	\$ 2,375,069	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,199,392

Public Utilities

Water CIP Emergency Reserve / ABT00008

Bldg - Other City Facility / Structures

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Rashid, Surraya
Duration:	2010 - 2040		858-654-4112
Improvement Type:	Betterment		srashid@sanidiego.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 City's reserve policy 100-20.

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 and will be held as a continuing appropriation.

Summary of Project Changes: No significant change has been made to this project for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021		FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
					Anticipated								
Water Utility - CIP Funding Source	700010	\$ -	\$ 5,000,000	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000
Total		\$ -	\$ 5,000,000	\$ -	\$ -		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,000,000

Public Utilities

Water Department Security Upgrades / S00050

Bldg - Operations Facility / Structures

Council District:	Citywide	Priority Score:	N/A
Community Planning:	Citywide	Priority Category:	N/A
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2001 - 2024		858-292-6425
Improvement Type:	Betterment		tphung@sanidiego.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 2021.

Summary of Project Changes: The annual project cost for Fiscal Year 2021 increased by \$1 million due to updates to the schedule of sub-projects. It is anticipated that this project will be closed and moved to the appropriate annual during the Fiscal Year.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	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	1,000,000	-	-	-	-	-	-	-	4,065,803
Water Utility Operating Fund	700011	30,986	-	-	-	-	-	-	-	-	-	30,986
Total		\$ 5,545,684	\$ 2,019,377	\$ 1,000,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,565,061

Public Utilities

Water Main Replacements / AKB00003

Water - Distribution Sys - Distribution

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 2021 increased by \$8.7 million due to updates to the schedule of sub-projects. Additionally, \$20.8 million was allocated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action, and \$4.5 million was allocated by City Council in the Fiscal Year 2020 Year-End CIP Budget Monitoring action.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Historical Fund	X999	\$ 399,847	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 399,847
PFFA-Water Rev Bonds Series 2016A	700095	2,953,284	-	-	-	-	-	-	-	-	-	2,953,284
Water SDG&E Utility Relocation	700105	3,191,620	-	-	7,436,760	-	-	-	-	-	-	10,628,380
Water Utility - CIP Funding Source	700010	277,008,445	87,192,564	78,535,744	-	69,159,892	79,760,385	58,827,303	60,859,608	-	-	711,343,941
Water Utility Operating Fund	700011	195,124	-	-	-	-	-	-	-	-	-	195,124
Total		\$ 283,748,321	\$ 87,192,563	\$ 78,535,744	\$ 7,436,760	\$ 69,159,892	\$ 79,760,385	\$ 58,827,303	\$ 60,859,608	\$ -	\$ -	\$ 725,520,577

Public Utilities

Water Pump Station Restoration / ABJ00001

Bldg - Water - Pump Stations

Council District:	Citywide	Priority Score:	Annual
Community Planning:	Citywide	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2010 - 2040		858-292-6425
Improvement Type:	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 2021 decreased by \$855,440 due to updates to the schedule of sub-projects. Additionally, \$600,000 was allocated by City Council in the Fiscal Year 2020 Mid-Year CIP Budget Monitoring action.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ 18,903,919	\$ 6,238,132	\$ 800,000	\$ -	\$ 2,467,297	\$ 6,571,229	\$ 14,219,036	\$ -	\$ -	\$ -	\$ 49,199,614
Water Utility Operating Fund	700011	37,509	-	-	-	-	-	-	-	-	-	37,509
Total		\$ 18,941,428	\$ 6,238,132	\$ 800,000	\$ -	\$ 2,467,297	\$ 6,571,229	\$ 14,219,036	\$ -	\$ -	\$ -	\$ 49,237,123

Public Utilities

Water SCADA Upgrade Phase I / S21001

Water - Distribution Sys - Distribution

Council District:	Citywide	Priority Score:	99
Community Planning:	Citywide	Priority Category:	High
Project Status:	New	Contact Information:	Dadachanji, Chisti
Duration:	2021 - 2026		858-654-4493
Improvement Type:	Replacement		pdadachanji@saniego.gov

Description: This project will replace and upgrade the existing Supervisory Control and Data Acquisition (SCADA) equipment for the water system.

Justification: The current system is over 20 years old and obsolete. The new system will enhance monitoring and control capabilities.

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: Design is scheduled to begin in Fiscal Year 2021 and construction is anticipated to be completed in Fiscal Year 2026.

Summary of Project Changes: This is a newly published project for Fiscal Year 2021.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021 Anticipated	FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
Water Utility - CIP Funding Source	700010	\$ -	\$ -	\$ 500,000	\$ -	\$ 1,200,000	\$ 4,000,000	\$ 8,000,000	\$ 2,000,000	\$ 400,000	\$ -	\$ 16,100,000
Total		\$ -	\$ -	\$ 500,000	\$ -	\$ 1,200,000	\$ 4,000,000	\$ 8,000,000	\$ 2,000,000	\$ 400,000	\$ -	\$ 16,100,000

Public Utilities

Water Treatment Plants / ABI00001

Bldg - Water - Treatment Plants

Council District:	5 7 Non City	Priority Score:	Annual
Community Planning:	Scripps Miramar Ranch; Navajo; Non City	Priority Category:	Annual
Project Status:	Continuing	Contact Information:	Phung, Tung
Duration:	2013 - 2040		858-292-6425
Improvement Type:	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 2021 decreased by \$246,192 due to updates to the schedule of sub-projects.

Expenditure by Funding Source

Fund Name	Fund No	Exp/Enc	Con Appn	FY 2021	FY 2021		FY 2022	FY 2023	FY 2024	FY 2025	Future FY	Unidentified Funding	Project Total
					Anticipated								
Water Utility - CIP Funding Source	700010	\$ 543,741	\$ 2,226,224	\$ -	\$ -	\$ -	\$ 2,327,448	\$ 2,725,967	\$ 11,492,772	\$ -	\$ -	\$ -	\$ 19,316,153
Total		\$ 543,741	\$ 2,226,224	\$ -	\$ -	\$ -	\$ 2,327,448	\$ 2,725,967	\$ 11,492,772	\$ -	\$ -	\$ -	\$ 19,316,153