

**Burbank Water and Power
Fiscal Year 2019-20 Adopted Budget
Water Fund Capital Plan**

	2019-20 Adopted	2020-21 Forecast	2021-22 Forecast	2022-23 Forecast	2023-24 Forecast	FY 2019-20 to FY 2023-24 Forecast
Potable CIP						
Small Water Mains	2,561,486	2,506,486	2,141,063	1,876,063	2,131,063	11,216,161
Large Water Mains	625,000	925,000	1,125,000	1,350,000	1,060,000	5,085,000
Plant Replacement	35,000	35,000	35,000	35,000	35,000	175,000
Automation and Control	195,000	65,000	20,000	20,000	65,000	365,000
Boosters	1,520,000	475,000	100,000	-	-	2,095,000
Production Facilities	100,000	25,000	115,000	125,000	75,000	440,000
Miscellaneous Facilities	150,000	105,000	90,000	150,000	50,000	545,000
Storage - Reservoirs and Tanks	580,000	330,000	395,000	880,000	280,000	2,465,000
New Customer Projects/AIC	483,762	1,008,762	683,762	333,762	333,762	2,843,810
Water Fund's share of common projects	288,644	163,700	139,750	131,500	120,616	844,210 (A)
Total Potable CIP	\$ 6,538,892	\$ 5,638,948	\$ 4,844,575	\$ 4,901,325	\$ 4,150,441	\$ 26,074,181
Recycled CIP						
Recycled Water	334,105	134,105	274,105	259,105	649,105	1,650,525
Total Recycled CIP	\$ 334,105	\$ 134,105	\$ 274,105	\$ 259,105	\$ 649,105	\$ 1,650,525
Total CIP	\$ 6,872,997	\$ 5,773,053	\$ 5,118,680	\$ 5,160,430	\$ 4,799,546	\$ 27,724,706
Capital Outlay	10,000	10,200	10,404	10,612	10,824	52,040
Information Technology	8,970	9,149	9,332	9,519	9,709	46,680
Master Fleet Plan	262,075	466,390	921,200	371,905	202,100	2,223,670
Subtotal Capital Outlay	281,045	485,739	940,936	392,036	222,634	2,322,391
Grand Total - Current Forecast	\$ 7,154,042	\$ 6,258,792	\$ 6,059,616	\$ 5,552,466	\$ 5,022,180	\$ 30,047,097

Note:

(A) Includes 15% for Safety, 12.5% for Customer Service, and 11.5% for Operations Technology, Facilities, Finance, and Security when applicable.

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Project	FY 19-20 Adopted	FY 20-21 Forecast	FY 21-22 Forecast	FY 22-23 Forecast	FY 23-24 Forecast	Total FY 2019/20 - 2023/2024
System Replacement/AIC						
System Expansion Services	400,000	925,000	600,000	250,000	250,000	2,425,000
System Expansion Meters	83,762	83,762	83,762	83,762	83,762	418,810
Sub-Total	483,762	1,008,762	683,762	333,762	333,762	2,843,810
Potable Small Water Mains						
Walnut, Sixth to Kenneth				225,000		225,000
Toluca Lake Ave, Olive to Rose	200,000					200,000
Monterey, Lincoln to Orchard	325,000					325,000
Upper Country Club Drive 6" D.I., 1,450 LF, replacement of 6" SS		400,000				400,000
7th Street, Angeleno to Tujunga					160,000	160,000
Alley South of San Fernando, Olive to Orange Grove					160,000	160,000
Reese, Monterey to Lockheed Channel, Replace 4" CI with 8" DI, 600 LF	115,000					115,000
Ford Street, Clark Ave to Magnolia Blvd	280,000					280,000
Pass, Burbank to Chandler	275,000					275,000
Orchard, Clark to Magnolia	160,000					160,000
6th, 710 6th to Elmwood	35,000					35,000
Alley E/O 5th, Elmwood to Cedar	80,000					80,000
Pass, Clark to Magnolia			300,000			300,000
Irving Drive, Glenoaks to Scott			150,000			150,000
Ally North of Orange Grove, Bel Aire to Kenneth Road			250,000			250,000
Ally South of Olive, Bel Aire Dr. to Kenneth Road		250,000				250,000
Alley N/O Orange Grove, Glenoaks to Sixth			250,000			250,000
Catalina, Burbank to Wyoming			125,000			125,000
6th, Eaton to Andover					350,000	350,000
Frederic, 2101 Frederic to Thornton		110,000				110,000
Frederic/Naomi/Willow Loop		500,000				500,000
Cypress & San Jose, Glenoaks to 3rd, Cypress					125,000	125,000
Cypress & San Jose, Glenoaks to 3rd, San Jose					125,000	125,000
Cypress & San Jose, Glenoaks to 3rd, Magnolia					125,000	125,000
Parkside, Parish to Reese		105,000				105,000
Brighton, Pacific to Monterey			120,000			120,000

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	Adopted	Forecast	Forecast	Forecast	Forecast	FY 2019/20 - 2023/2024
Alley N/O San Jose Glenoaks to N 3rd, Replace 6" SS with 12" DI, 551 LF				150,000		150,000
Alley N/O Orange Grove, 6th St to 7th St, Replace 4" SS with 8" DI, 594 LF				135,000		135,000
Alley N/O Verdugo, 7th St to Kenneth Rd, Replace 4" SS with 8" DI, 532 LF				120,000		120,000
Alley N/O Santa Anita, 6th St to 7th St, Replace 4" SS with 8" DI, 532 LF					140,000	140,000
Alley N/O Tujunga, 7th St to Kenneth Rd, Replace 4" SS with 8" DI, 520 LF				125,000		125,000
Alley N/O Tujunga, 6th St to Kenneth Rd, Replace 4" SS with 8" DI, 600 LF				175,000		175,000
Valley St, End to Hood Ave End, Replace 4"CI with 8" DI, 185 LF		50,000				50,000
Street Improvements Coordination Project (Clear Street Improvements)	12,500	12,500	12,500	12,500	12,500	62,500
Hydrants replacement	80,000	80,000	80,000	80,000	80,000	400,000
Service Replacement Due to Tree Roots	95,000	95,000	95,000	95,000	95,000	475,000
Service Replacement Tie-overs to New Water Mains	10,000	10,000	10,000	10,000	10,000	50,000
Service Replacement Valves on Existing Fire Services	35,000	35,000	35,000	35,000	35,000	175,000
Meter Replacements	783,986	783,986	638,563	638,563	638,563	3,483,661
Valve Replacements	75,000	75,000	75,000	75,000	75,000	375,000
Sub-Total	2,561,486	2,506,486	2,141,063	1,876,063	2,131,063	11,216,161
Potable Large Water Mains						
Hollywood Way, Pacific to Victory	425,000					425,000
Ontario, from 2950 Ontario to Cohasset St		150,000				150,000
Victory Blvd, Verdugo to Providencia			225,000			225,000
Alley South of Alameda, Glenoaks to San Fernando			250,000			250,000
Lake, Olive to Providencia				450,000		450,000
Lake Street, North of Burbank Blvd Bridge		150,000				150,000
Palm Pump Station, Replace 12" CI Distribution Main with 20" DI, 162 LF					60,000	60,000
Magnolia from Wash to Victory, 12" 1000 LF		425,000				425,000
Burbank - 5 points to Beechwood 1250 LF 12"				400,000		400,000
Burbank, Beechwood to Parish 1250 LF 12"					400,000	400,000
Replace Transmission Main Valve	200,000	200,000	200,000	200,000	200,000	1,000,000
Victory, Isabel to Chandler				300,000		300,000
Victory, Chandler to Magnolia					400,000	400,000
Magnolia, I-5 to 3rd			450,000			450,000
Sub-Total	625,000	925,000	1,125,000	1,350,000	1,060,000	5,085,000
Total for Potable Distribution	3,670,248	4,440,248	3,949,825	3,559,825	3,524,825	19,144,971

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Project	FY 19-20 Adopted	FY 20-21 Forecast	FY 21-22 Forecast	FY 22-23 Forecast	FY 23-24 Forecast	Total FY 2019/20 - 2023/2024
Potable Plant Replacement						
Miscellaneous Equipment Replacement	35,000	35,000	35,000	35,000	35,000	175,000
Sub-Total	35,000	35,000	35,000	35,000	35,000	175,000
Potable Automation and Control						
Water Supervisory Control and Data Acquisition (SCADA) Equipment Replacement	20,000	20,000	20,000	20,000	20,000	100,000
Programmable Logic Controller (PLC) 5 Replacements - VPP, Blend, GAC & B-1	100,000					100,000
SCADA Software Upgrade		45,000			45,000	90,000
B-2 Panel Rebuild	75,000					75,000
Sub-Total	195,000	65,000	20,000	20,000	65,000	365,000
Potable Boosters						
Modernize Equipment - B-1 MCC		125,000				125,000
MWD B-1 Booster Evaluation		50,000				50,000
VPP Booster Station Upgrade	1,200,000		100,000			1,300,000
McClure Booster Upgrade (P-29, P-32 & P-34)	250,000					250,000
Res 5 Booster Station Upgrade (P-20 & P-23)	70,000	300,000				370,000
Sub-Total	1,520,000	475,000	100,000	-	-	2,095,000
Potable Production Facilities						
Upper Zones Disinfection Residual Improvement	25,000	25,000	40,000			90,000
Rehabilitation of Well #7				125,000		125,000
Destruction of Well # 13	75,000					75,000
Destruction of Well # 12			75,000			75,000
Destruction of Well# 11					75,000	75,000
Sub-Total	100,000	25,000	115,000	125,000	75,000	440,000

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Project	FY 19-20 Adopted	FY 20-21 Forecast	FY 21-22 Forecast	FY 22-23 Forecast	FY 23-24 Forecast	Total FY 2019/20 - 2023/2024
Potable Miscellaneous Facilities						
Security Improvements	25,000	25,000	25,000	25,000	25,000	125,000
Paving of Facility Sites	25,000	25,000	25,000	25,000	25,000	125,000
Irrigation and Landscape Improvements	25,000	35,000	20,000	80,000		160,000
GIS Facility layer Development	25,000					25,000
Facility Inspection Development in MIMS	50,000	20,000	20,000	20,000		110,000
Sub-Total	150,000	105,000	90,000	150,000	50,000	545,000
Total for Potable Production	2,000,000	705,000	360,000	330,000	225,000	3,620,000
Potable Storage - Reservoirs and Tanks						
Reservoir #5 Install Stair Access	20,000	150,000				170,000
Reservoir #2 Stability Study	30,000					30,000
GAC Assesment/Study	30,000					30,000
Twin Tanks Site Work			100,000			100,000
Interior Joint Replacement/Crack Repair	200,000			300,000	250,000	750,000
Re-roof Reservoir #2			200,000			200,000
GAC		100,000				100,000
Reroof Valley Forebays				425,000		425,000
Interior Painting		80,000		125,000		205,000
Exterior Painting (Full Strip and Abatement)	300,000		95,000			395,000
Exterior Painting (Overcoat)				30,000	30,000	60,000
Sub-Total	580,000	330,000	395,000	880,000	280,000	2,465,000
Total for Potable Storage - Reservoirs and Tanks	580,000	330,000	395,000	880,000	280,000	2,465,000
Total for Potable Water System	6,250,248	5,475,248	4,704,825	4,769,825	4,029,825	25,229,971

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Project	FY 19-20 Adopted	FY 20-21 Forecast	FY 21-22 Forecast	FY 22-23 Forecast	FY 23-24 Forecast	Total FY 2019/20 - 2023/2024
<u>Recycled System Expansion</u>						
Wildwood Canyon Park - Planning, Design, & Construction					200,000	200,000
Repurpose/retrofit Abandoned 8" CI to RW on Hollywood Way, Winona to Thornton	150,000					150,000
Hydrants	10,000	10,000	10,000	10,000	10,000	50,000
Services (Under New Policy)	10,000	10,000	10,000	10,000	10,000	50,000
Meters - Recycled Water	14,105	14,105	14,105	14,105	14,105	70,525
Total for Recycled Distribution	184,105	34,105	34,105	34,105	234,105	520,525
<u>Recycled Automation and Control</u>						
Water Supervisory Control and Data Acquisition (SCADA) Equipment Replacement	10,000	10,000	10,000	10,000	10,000	50,000
<u>Recycled Boosters</u>						
Equipment, Pump & Motor Replacements/Overhaul	15,000	15,000	15,000	15,000	15,000	75,000
Booster Improvements from Optimization Study					300,000	300,000
Total for Recycled Production	25,000	25,000	25,000	25,000	325,000	425,000
<u>Recycled Storage - Reservoirs and Tanks</u>						
Tank Replacement - Wildwood Tank				200,000		200,000
Painting Program - Steel Tanks	125,000	75,000	215,000		90,000	505,000
Total for Recycled Storage - Reservoirs and Tanks	125,000	75,000	215,000	200,000	90,000	705,000
Total for Recycled Water	334,105	134,105	274,105	259,105	649,105	1,650,525
Total for Potable and Recycled	6,584,353	5,609,353	4,978,930	5,028,930	4,678,930	26,880,496
			-			
<u>Water Fund's Share of Common Projects</u>						
Operational Reliability	2,875	23,000	-	-	-	25,875
Security Operations Center (SOC)/Network Operations Center (NOC)	-	28,750	-	-	-	28,750
Data Center Hardware	-	-	23,000	40,250	-	63,250
Roof Replacement Program	17,250	14,375	11,500	8,625	8,625	60,375
BWP Administrative Building Lighting Upgrade	3,450	11,500	-	-	-	14,950

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Communication System	9,000	-	-	-	-	9,000
HVAC Upgrade for Campus Buildings	11,500	11,500	11,500	11,500	11,500	57,500
HVAC Upgrade Study & Project for ECC	23,000	-	-	-	-	23,000
Auto Reordering	23,000	-	-	-	-	23,000
Warehouse Office & HVAC Modification Project	11,500	-	-	-	-	11,500
Implement Oracle Self Service and Time Entry	17,250	-	-	-	-	17,250
Hyperion Upgrades	25,875	-	-	-	26,491	52,366
Meter Data Management System Upgrade and Update	-	43,750	-	43,750	-	87,500
Customer Enhancements	-	18,750	-	18,750	-	37,500
IVR Upgrade	-	-	-	-	6,250	6,250
Customer Web Portal	37,500	-	37,500	-	-	75,000
Customer Information System Upgrade	62,500	-	56,250	-	56,250	175,000
OT Network Monitoring	5,750	-	-	8,625	-	14,375
BWP Campus Network Update 10G	22,344	4,025	-	-	-	26,369
BWP Campus Security	4,600	8,050	-	-	11,500	24,150
EHS Data Management System	11,250	-	-	-	-	11,250
Sub-Total	288,644	163,700	139,750	131,500	120,616	844,210
Grand Total Water Fund CIP Projects	6,872,997	5,773,053	5,118,680	5,160,430	4,799,546	27,724,706