CAPITAL PROJECTS - WIFIA WATER CONSTRUCTION FUND

CITY OF BEAVERTON
BUDGET TREND ANALYSIS - FY 2017-18 TO FY 2020-21
With Explanations on Significant Changes between Budgeted 2019-20 and Recommended 2020-21

Fund: **WIFIA Water Construction Fund**

CLASS	Actual FY 2017-18	Actual FY 2018-19	Budget FY 2019-20	Estimated FY 2019-20	Recommended FY 2020-21	% Change Budgeted Vs. Recommended
Materials and Services	$0	$0	$0	$100,000	$100,000	N/A
Capital Outlay	-	-	-	$11,696,000	$28,936,500	N/A
SUB-TOTAL	$0	$0	$0	$11,796,000	$29,036,500	
Contingency			-		-	
TOTAL	$0	$0	$0	$11,796,000	$29,036,500	

Explanation of item(s) that are significant (10% and greater than $10,000):

Capital outlay:
FY 2020-21 reflects the creation of fund 506 and transfer of WIFIA funded project out of fund 505.

FUND: 506 WIFIA WATER CONSTRUCTION PROJECTS	DEPARTMENT: PUBLIC WORKS
PROGRAM: WATER SUPPLY IMPROVEMENT PROJECTS	DEPARTMENT HEAD: CHAD LYNN

Program Trends:
The City's water utility operation is accounted for in the Water Fund. For financial reporting purposes, the Water Fund is a consolidation of the Water Operating Fund, Water Construction Fund and Water Debt Service Fund. For budgetary and financial control purposes, a separate budget is presented for each of these operations. The budget presented in this program is for the newly created Water Construction Fund - WIFIA Projects (506) - .

The City is funding a large water system construction program to expand Beaverton's water supply capacity, resilience, and redundancy through the US EPA Water Infrastructure and Innovation Act (WIFIA) over the next seven years. EPA's WIFIA group accepted the City's request for a total project cost of $165 million, of which 49% will be funded by a WIFIA loan. The City has submitted a formal loan application to submit to EPA by anticipates accepting the loan in September 2020.

Many of the WIFIA water system projects - Water Supply Improvement Program (**WSIP**) are underway now providing jobs for many Oregon consulting and construction firms. By the summer of 2021, many 100's will be employed via contracts with this program and that pace will continue through 2027. The City's 51% contribution to the program is being assisted by two Drinking Water State Revolving Fund (DWSRF) low interest rate loans, which is another EPA program administered by Oregon Drinking Water Authority (OHA). The City has a current DWSRF loan for the ASR Well 5 project and will receive an additional loan for the North Transmission Intertie (NTI) project.

REQUIREMENTS	FY 2017-18 ACTUAL	FY 2018-19 ACTUAL	FY 2019-20 BUDGETED	FY 2020-21 PROPOSED	FY 2020-21 ADOPTED
MATERIALS & SERVICES	$0	$0	$0	$100,000	$0
CAPITAL OUTLAY	0	0	0	28,936,500	0
TRANSFERS					
CONTINGENCY	0	0	0	100,000	0
TOTAL	**$0**	**$0**	**$0**	**$29,136,500**	**$0**

Funding Sources:	FY 2017-18	FY 2018-19	FY 2019-20	FY 2020-21	FY 2020-21
Intergovernmental Revenue	$0	$0	$0	$750,000	$0
WIFIA Federal Loan	0	0	0	11,299,471	0
Loan Proceeds	0	0	0	5,126,355	0
Transfers from:					
Water Construction Fund	0	0	0	11,230,674	0
Water Fund	0	0	0	630,000	0
Funding of Projects:					
3680 So. Cooper Mtn. Impr (WIFIA)	0	0	0	15,018,500	0
3682 ASR Improvements (WIFIA)	0	0	0	9,737,000	0
3683 North Transmission Intertie (WIFIA)	0	0	0	1,635,000	0
3684 North Trans. Intertie Con. (WIFIA)	0	0	0	841,000	0
3685 East Transmission Intertie (WIFIA)	0	0	0	905,000	0
3686 WWSP Connections (WIFIA)	0	0	0	800,000	0

WSIP Project Summary

The WIFIA loan will fund the "Water Supply Improvement Program" (WSIP) of the City, which now includes 24 major projects that will be transformative to the Beaverton water system:

- 5.5 MG of new, seismically sound, above-ground water storage
- 5 new or reconstructed major pump stations with stand-by power
- 10+ miles of large diameter earthquake resistant pipelines connecting the City to 4 regional surface water sources.

FUND: 506 WIFIA WATER CONSTRUCTION PROJECTS	DEPARTMENT: PUBLIC WORKS
PROGRAM: WATER SUPPLY IMPROVEMENT PROJECTS	DEPARTMENT HEAD: CHAD LYNN

- Addition of 3 new Aquifer Storage and Recovery (ASR) wells that will allow the City to store 300 million gallons of drinking water in the winter in deep basalt underground wells. When completed, the City will have a total of 6 ASR wells to access to a 1 billion gallons of stored water in deep basalt aquifers.
- Addition of 3 new ASR wells will provide an additional 5+ million gallons per day (mgd), during the summer, pumped from the wells into the City's distribution system. The ASR wells help provide seismic protection for the City's water supply and regional partners. The City has 5 mgd of existing ASR capacity with a successful 20-year operating history and the new wells will raise the total pumping capacity to 10 mgd.
- Conversion of the City's entire water meter system to be automatically read to increase operating efficiency and improve water conservation.
- Ability to finally utilize all of the City's purchased 18.75 million gallons per day (mgd) treatment capacity in the JWC treatment plant.
- First of its kind in Oregon "purple pipe" stormwater reuse system to supply summer residential irrigation water to substitute for and conserve 1 million gallons a day of drinking water. Water from this system will also be discharged into a local stream to enhance & cool summer streamflow.
- Increase system efficiency by implementing an Advanced Meter Infrastructure (AMI) system to remotely read water meters, upgrading existing pump stations, and upgrading the water system controls.
- Replace aging pipelines and pump stations that are reaching the end of useful-life.
- Manageable future water rate impacts due to low interest rates and long (35 year) repayment period.
- Allows the distribution of multiple water sources: Willamette Water Supply System (**Willamette River**), Joint Water Commission (**Tualatin and Trask Rivers),** Lake Oswego/Tigard (**Clackamas River**), City of Portland (**Bull Run River**) and **groundwater** storage of an added 300 million gallons from new ASR wells, to a major portion of Beaverton and to the City of Hillsboro during periods when the JWC water system is not functioning.

The North Transmission Intertie (NTI), is the largest project in the Water Supply Improvement Program (WSIP) being undertaken by the City with the assistance of a WIFIA loan. The goals of the program are to:

- Improve the seismic resiliency of the City's water system by constructing key new facilities to current seismic standards.
- Improving the City's water system's reliability by interconnecting with several alternative sources of water supply

Specific benefits of the NTI are numerous and critical to the future of water supply to the City:

- Increases reliability of supply from the JWC by allowing the City to take its water supply from either the North or South Transmission Lines.
- Allows the South Transmission Line, which is the City's sole source of owned supply from the JWC, to be taken out of service for repairs without jeopardizing the water supply to the City.
- Provides a seismically resilient "backbone" of supply to the City that can be relied upon to be useable after a major earthquake. It also provides a reliable and resilient transmission main for the northwest area of the City and other distribution pipelines that will be added as part of the overall WSIP.
- Allows the City to obtain its full capacity from the JWC treatment plant, which it currently cannot obtain due to a lack of capacity in the South Transmission Line.
- Increases the pressure in the South Transmission Line by equalizing the demand on the two (North and South) supply lines and, thereby, increasing the efficiency of pumping water to higher elevations in the City.
- Allows the provision of City water service to areas of the City that currently cannot be served by the City's water system.

Progress on FY 2019-20 Action Plan:
Funding from the WIFIA program is expected in FY2020-2021, so progress on current projects is shown in Water Construction Fund (505) on pages xx-xy.

FUND: 506 WIFIA WATER CONSTRUCTION PROJECTS	DEPARTMENT: PUBLIC WORKS
PROGRAM: WATER SUPPLY IMPROVEMENT PROJECTS	DEPARTMENT HEAD: CHAD LYNN

FY 2020-21 Action Plan:
With the award of WIFIA funding in FY 2020-21, for most projects formerly listed under the Water Construction Fund (505), progress will now be shown under Water Construction Fund - WIFIA Projects (506). Continued development and growth opportunities occurred in the Cooper Mountain area and the city also began a schedule of transferring water service responsibilities for water system infrastructure obtained in the withdrawal of territory from the Tualatin Valley Water District (TVWD) for properties already within the city limits.

During FY 2020-21, the list of projects shows continued progress on development opportunities occurring in the Cooper Mountain area and TVWD transferring water service responsibilities to the City for approximately 16,000 city residents. Other significant extra-capacity water projects planned this year consists of:

Program: Water Extra Capacity- 3620* (all former 505 Fund Projects)

CIP Project No.	CIP Project Name
4021F	ASR Well No. 6 (well maintenance/testing)
4021G	SCM - ASR 3A - Supply source to Non-potable purple-pipe water system
4021H	ASR Well No. 7 (Cooper Mt. ASR, well maintenance/testing)
4154	Cooper Mountain Utility Master Plan
4197	SCM Stormwater Treatment & Non-Potable Injection Well ASR 3
	Program: ASR 5 Project – IFA Loan – 3621
4021D	ASR Well No. 5 & Sorrento Pump Station Seismic Upgrade
	Program: Cooper Mountain Reservoir #2 and Transmission Mains (bonded) – 3622
4058A	Cooper Mountain (5.5 MG) Reservoir No. 2
	Program: Non-Potable "Purple Pipe" Mains – 3623
4021G	South Cooper Mt. - Non-potable (purple pipe) ASR 3A storage and recovery well Water System
4197	SCM Non-Potable Injection Well ASR 3 & Stormwater Treatment System for Injection
	Program: S. Cooper Mtn. SDC Projects – 3625
4158	AMI Tower/Conversion City-wide
	Program: Withdrawal of Areas from TVWD – 3627 (bonded)
4149	West Baseline Watermain Ext 158th to 163rd (design only)
4171	Area 4 – Master Meter (Schendel/Walker)
4175	Five Oaks School, 173rd to NW 167th, 12" water line, 1500 LF
5088B	Walker Ph. 2
5105	Walker Ph. 3
	Program: TVWD Opportunity Projects – 3628
4172	TVWD opportunity projects - Metzger East Pipeline - Scholls Ferry Rd, Nimbus Ave to Allen Blvd (design)
4173	TVWD opportunity projects - WWSP - SW Allen Blvd (design)
4174	TVWD opportunity projects - WWSP - SW Western Ave. (design)
	Program: Meridian Pump Station – 3631
4107	Meridian Pump Station Replacement and Upgrade, finish construction
	Program: Willamette Water Supply Interties (Bond) - 3645
4141	WWSP Supply Intertie (opportunity project) @ Cornelius Pass Road/TV Hwy.
4142	Tile Flat (WWSP - COB Intertie) Fluoridation and Pump Station
4143	North Transmission Intertie Phase 1

BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 506 WIFIA WATER CONSTRUCTION FUND DEPT: 03 REVENUE

OBJ	2018 - ACTUAL		2019 - ACTUAL		2020 BUDGETED		2020 YTD	2020	2021 - PROPOSED		2021 - RECOMD		2021 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
CLASS: 15 INTERGOVERNMENTAL REVENUE														
328 GRANTS - STATE														
											-750,000			
TOTAL CLASS: 15 INTERGOVERNMENTAL REVENUE														
											-750,000			
CLASS: 40 INTERFUND TRANSFERS/LOANS														
405 TRSFRS FR WATER CONSTR FUND														
								-10,226,000	-9,289,104		-11,230,674			
419 TRSFRS FROM WATER FUND														
								-120,000	-630,000		-630,000			
TOTAL CLASS: 40 INTERFUND TRANSFERS/LOANS														
								-10,346,000	-9,919,104		-11,860,674			
CLASS: 45 NON-REVENUE RECEIPTS														
468 WIFIA FEDERAL LOAN														
									-9,434,041		-11,299,471			
469 IFA STATE LOAN, ASR 5														
								-1,450,000	-2,452,355		-2,452,355			
470 IFA STATE LOAN, NTL														
									-1,680,500		-1,337,000			
471 SPWF LOAN, NTL														
									-1,680,500		-1,337,000			
TOTAL CLASS: 45 NON-REVENUE RECEIPTS														
								-1,450,000	-15,247,396		-16,425,826			
TOTAL DEPARTMENT: 03 REVENUE														
								-11,796,000	-25,166,500		-29,036,500			

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BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 506 WIFIA WATER CONSTRUCTION FUND DEPT: 72 CAPITAL DEVELOPMNT-ENGINEERING

OBJ	2018 - ACTUAL		2019 - ACTUAL		2020 BUDGETED		2020 YTD	2020	2021 - PROPOSED		2021 - RECOMD		2021 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
CLASS: 10 MATERIALS & SERVICES														
499 WIFIA ADMINISTRATIVE EXPENSE														
								100,000	100,000		100,000			
TOTAL CLASS: 10 MATERIALS & SERVICES														
								100,000	100,000		100,000			
TOTAL DEPARTMENT: 72 CAPITAL DEVELOPMNT-ENGINEERING														
								100,000	100,000		100,000			

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BUDGET PREPARATION WORKSHEET SUMMARY

FUND: 506 WIFIA WATER CONSTRUCTION FUND DEPT: 75 INFRASTRUCTURE PROJECTS

OBJ	2018 - ACTUAL		2019 - ACTUAL		2020 BUDGETED		2020 YTD	2020	2021 - PROPOSED		2021 - RECOMD		2021 ADOPTED	
	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE	ACT AMT	EST AMT	AMOUNT	FTE	AMOUNT	FTE	AMOUNT	FTE
CLASS: 15 CAPITAL OUTLAY														
652 RIGHT-OF-WAY AND EASEMENT COST														
								85,000	600,000		600,000			
682 CONSTRUCTION														
								4,978,000	17,806,000		23,171,000			
683 CONST DESIGN & ENGR INSPECTION														
								6,290,000	6,353,500		4,858,500			
688 IN-HOUSE ENGR OH CHARGE														
								343,000	307,000		307,000			
TOTAL CLASS: 15 CAPITAL OUTLAY														
								11,696,000	25,066,500		28,936,500			
TOTAL DEPARTMENT: 75 INFRASTRUCTURE PROJECTS														
								11,696,000	25,066,500		28,936,500			

City of Beaverton
CIP Financial Plan - Water
FY 2019-20 Estimated

Fund #	Proj #	CIP #	Project Name	Funding Source						
				SDC	Bond Proceeds	IFA Loan Proceeds	WIFIA	Operating: Maint & Replacement	Developer Reimb	Funding Total
FUND 501 - Water Capital Improvement Projects:										
501	3611	3611	JWC Projects					813,000		813,000
501	3611	?	Barney Reservoir					68,000		68,000
			Totals - 3611 (Joint Water Commission Projects)	-	-	-	-	**881,000**	-	**881,000**
501	3700	1000								-
501	3700	4017	Water System Hydraulic Modeling & Mapping							-
501	3700	4166	ASR storage & recovery operations related to Potential Fe/Mn impacts							-
			Totals - 3700 (Maintenance & Replacement Program)	-	-	-	-	-	-	-
501	3701	3321	Westgate Dr/Cedar Hills Blvd.Dawson Wy Intersection Realignment - JIM					-		-
501	3701	3410	Denny Rd Multi-Use Path					12,000		12,000
501	3701	4046	Lloyd Ave Waterline					101,000		101,000
501	3701	4060	Water System Security Upgrades					18,000		18,000
501	3701	4107	Meridian Pump Station					500		500
501	3701	4111	Hyland Way					10,000		10,000
501	3701	4117	Washington Ave Waterline (7th-9th)					180,000		180,000
501	3701	4120	Taralynn Avenue - Allen Blvd. to end (1,000 LF of 6")					35,000		35,000
501	3701	4123	Barlow Ct					400,000		400,000
501	3701	4134	Davies/Brockman; Weir Rd/158th Ave PRV Upgrades					572,000		572,000
501	3701	4135	Griffith Dr Waterline Replacement					395,000		395,000
501	3701	4144	Spirea and CherryHill Dr (400LF 6" and 1400 8") - 1*					455,000		455,000
501	3701	4152	Chestnut Pl (6" water line) - 1*					360,000		360,000
501	3701	4156	SW 140th Ave Water Improvements					10,000		10,000
501	3701	4158	AMI/Fixed Based Automated Meter Reading Infrastructure - (antenna(s) tower & communication network, meters for SCM)					-		-
501	3701	4168	Electric Ave Waterline Loop					76,000		76,000
501	3701	4195	SW Barlow Rd (Juniper to Jasmine Pl)					4,000		4,000
501	3701	6006	Erickson Trunk Sewer Project					220,000		220,000
501	3701	6095	Sellwood Subdivision 11th Street - Lee to Alger - (1,150 LF 6" DIP) ?					466,000		466,000
501	3701	3106A	Menlo Dr					7,000		7,000
501	3701	3519A	Canyon Rd Intersection Improvements (MSTIP)					-		-
501	3701	4017A	Water Master Plan Update					21000		21,000
501	3701	4021F	ASR #6							-
501	3701	4118A	Settler Way Utility Improvements Phase 1					300		300
501	3701	4118B	Settler Way Utility Improvements Phase 2					700		700
501	3701	4169A	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 1 of 3 - 1*					44,000		44,000
501	3701	4169B	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 3 of 3 - 1*					44,000		44,000
501	3701	4169C	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 2 of 3 - 1*					28,000		28,000
			Totals - 3701 (Water System Improvements)	-	-	-	-	**3,459,500**	-	**3,459,500**
FUND 505 - WATER CONSTRUCTION FUND										
505	3620	3328	Western Ave (5th st - Allen Blvd) Improvement	4,000						4,000
505	3620	3408	Hocken Ave (RR-TV highway)	20,000						20,000
505	3620	4006	Water System Telemetry (annual upgrade project)	87,500						87,500
505	3620	4018	Wellhead Protection	-						-

City of Beaverton
CIP Financial Plan - Water
FY 2019-20 Estimated

Fund #	Proj #	CIP #	Project Name	Funding Source						
				SDC	Bond Proceeds	IFA Loan Proceeds	WIFIA	Operating: Maint & Replacement	Developer Reimb	Funding Total
505	3620	4046	Lloyd Water Line (TVH to Henry) - Upsize to 8", 500 LF - NEW ?	61,000						61,000
505	3620	4150	Denney Commerce Center Waterline Improvements	300						300
505	3620	4161	Denney Road Crossing at HW 217th - Replacement of 400 LF with 12" V	-						-
505	3620	4168	Electric Water Line (Tualaway to 139th) - New 8" - NEW ?	61,000						61,000
505	3620	4017A	Water Master Plan Update	250						250
505	3620	4021A	ASR Well No 3	650						650
505	3620	4021F	ASR Well No. 6 (well maintenance/testing)	9,000						9,000
505	3620	4078B	Sexton Mt. Pump Station Upgrade and Emergency Generator, Phases 3	-						-
505	3620	4118A	Settler Way Utility Improvements Phase 1	550						550
505	3620	4118B	Settler Way Utility Improvements Phase 2	1,250						1,250
505	3620	4196	4050 SW Murray Blvd (Old KMart Site) Waterline Replacement	213,000						213,000
			Totals - 3620 (ASR No 5 Project)	**458,500**	**-**	**-**	**-**	**-**	**-**	**458,500**
505	3621	4167	Corrosion Control	4,300						4,300
			Totals - 3621 (ASR No 5 Project)	**4,300**	**-**	**-**	**-**	**-**	**-**	**4,300**
505	3622	3410	Denney Rd Multi-Use Path		150					150
505	3622	3519	Canyon Rd (Hockin-117) Streetscape Imp MTIP		150					150
505	3622	4151	Kemmer Rd		56,450					56,450
505	3622	4058B	Cooper Mountain (5.5 MG) Reservoir No. 3 (Siting and Land Purchase)(Bond)		73,000					73,000
505	3622	4151A	175th Transmission Main, 24" (Winkleman Park to Alvord Lane, 4800lf)(Bond)		1,807,450					1,807,450
505	3622	4151B	Weir Road 16" Tranmission Line - SW 173rd to SW 165th Avenue/city limits (2,000 LF)(Bon		-					-
505	3622	5092B	175th/Kemmer Intersection		111,000					111,000
			Totals - 3622 (North Cooper Mtn. Reservior #2 and Transmission Lines) (Bond)	**-**	**2,048,200**	**-**	**-**	**-**	**-**	**2,048,200**
505	3625	6083	**South Cooper Mt. Infrastructure (Potable)**	1,500						1,500
			Totals - 3625 (South Cooper Mtn. Water SDC Project)	**1,500**	**-**	**-**	**-**	**-**	**-**	**1,500**
505	3627	4141	Master Meter (Schendel/Walker)							-
505	3627	4159	TVWD Program Manager		817,000					817,000
505	3627	5090	Jenkins Waterline Extension - 153rd Ave to Merlo (opportunity project) (Bond)		435,000					435,000
505	3627	4128D	Waterhouse South Area G & G1							
			Totals - 3627 (Withdrawal of Areas from TVWD) (Bond)	**-**	**1,252,000**	**-**	**-**	**-**	**-**	**1,252,000**
505	3636	4051	**Scoggins Dam Raise (TBWSP)**	3,000						3,000
			Total - 3636 (Scoggins Dam Raise Project)	**3,000**	**-**	**-**	**-**	**-**	**-**	**3,000**
505	3643	4155	WIF Capital Expense		82,000					82,000
			Total - 3643 (Willamette Intake Facility - JV, Bonded)	**-**	**82,000**	**-**	**-**	**-**	**-**	**82,000**
505	3644	4122	Alvord Lane Waterline, 2,600 LF of 16" **(Bond)**		16,000					16,000
			Totals - 3644 (South Cooper Mtn. Extra Capacity Projects) (Bond)	**-**	**16,000**	**-**	**-**	**-**	**-**	**16,000**
505	3645	4141	WWSP Supply Intertie (opportunity project) @ Cornelius Pass Road/TV I	-	3,973,000	-		-	-	3,973,000
			Totals - 3645 Willamette Water Supply Interties (Bond)	**-**	**3,973,000**	**-**	**-**	**-**	**-**	**3,973,000**

City of Beaverton
CIP Financial Plan - Water
FY 2019-20 Estimated

Fund #	Proj #	CIP #	Project Name	Funding Source						
				SDC	Bond Proceeds	IFA Loan Proceeds	WIFIA	Operating: Maint & Replacement	Developer Reimb	Funding Total
505	3646	4126	Willamette Water Supply System (WWSP)		10,626,825					10,626,825
			Totals - 3644 (South Cooper Mtn. Extra Capacity Projects) (Bond)	-	**10,626,825**	-	-	-	-	**10,626,825**
FUND 506 - WIFIA WATER CONSTRUCTION FUND										
506	**3680**	**4021G**	South Cooper Mt. - Non-potable (purple pipe) Water System	1,195,000						1,195,000
506	**3680**	**4058A**	Cooper Mountain (5.5 MG) Reservoir No. 2 (Bond)		3,815,000					3,815,000
506	**3680**	**4078C**	Sexton Mtn Pump Station Upgrade & Emergency Generator				120,000			120,000
506	**3680**	**4107**	Meridian Pump Station Replacement (Bond)		2,545,000					2,545,000
506	**3680**	**4154**	Urban Reserve Infrastructure Analysis (6B)	38,500						38,500
506	**3680**	**4197**	SCM Non-Potable Injection Well ASR3	300,500						300,500
			Totals - 3680 South Cooper Mtn. Improvements	**1,195,000**	**6,360,000**	-	**120,000**	-	-	**8,014,000**
506	**3681**	**4158**	AMI Tower/Conversion							-
			Totals - 3681 AMI Infrastructure	-	-	-	-	-	-	-
506	**3682**	**4021D**	ASR Well No. 5 (includes combined facility w/Sorrento PS seismic upgrades)			1,450,000				1,450,000
506	**3682**	**4021H**	ASR Well No. 7 (Cooper Mt. ASR, well maintenance/testing)				404,000			404,000
			Totals - 3682 ASR Improvements	-	-	**1,450,000**	**404,000**	-	-	**1,854,000**
506	**3683**	**4143**	**NTL / STL Intertie and Transmission Line - Phase 1 (170th from SW Shaw to Baseline**		75,000					**75,000**
			Totals - 3683 North Transmission Line	-	**75,000**	-	-	-	-	**75,000**

City of Beaverton
CIP Financial Plan - Water
FY 2019-20 Estimated

Fund #	Proj #	CIP #	Project Name	Funding Source						
				SDC	Bond Proceeds	IFA Loan Proceeds	WIFIA	Operating: Maint & Replacement	Developer Reimb	Funding Total
506	3684	4149	West Baseline Watermain Ext 158th-163rd							
506	3684	4171	Master Meter (Schendel/Walker)		290,000					290,000
506	3684	4175	Five Oaks School, 173rd to NW 167th, 12" water line, 1500 LF		420,000					420,000
506	3684	5088B	Waterhouse/Elmonica Area,Withdrawal Area 4 (Bond) (Walker Ph 2)		140,000					140,000
506	3684	5105	Waterhouse South Area 4 Withdrawal Area (Bond) (Walker Ph 3) - 4800 LF of 24" + PRV		23,000					23,000
			Totals - 3684 North Transmission Intertie Connections	-	873,000	-	-	-	-	873,000
506	3685	4172	East Transmission Intertie - Nimbus to Western Ave (TVWD Opportunity Project)		775,000					775,000
506	3685	4174	East Transmission Intertie - SW Western Ave (TVWD Opportunity Project)		75,000					75,000
			Total - 3685 East Transmission Intertie	-	850,000	-	-	-	-	850,000
506	3686	4142	Tile Flat (WWSP - COB Intertie) Fluoridation and Pump Station	30,000						30,000
			Total - 3686 WWSP Connections	30,000	-	-	-	-	-	30,000
			Totals =>	1,692,300	26,156,025	1,450,000	524,000	4,340,500	-	34,501,825

City of Beaverton
CIP Financial Plan - Water
FY 2020-21 Proposed

Fund #	Prog #	CIP #	Project Name	Funding Source						
				Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	WIFIA	Operating: Maint & Replacement	Funding Total
Water Capital Improvement Projects:										
501	3611	3611	JWC Projects						1,078,505	1,078,505
501	3611		Barney Reservoir						5,500	5,500
			Totals - 3611 Joint Water Commission Projects	-	-	-	-	-	**1,084,005**	**1,084,005**
501	3701	3321	Westgate Dr/Cedar Hills Blvd:Dawson Wy Intersection Realignment - JIM						30,000	30,000
501	3701	4120	TaraLynn Waterline Replacement						300,000	300,000
501	3701	4124	Lisa Ln (141st - Bonnie Brae) Waterline Replacement, 1,200LF of 6"						300,000	300,000
501	3701	4135	Griffith Dr Waterline Replacement, 3,100LF of 8"&12"						650,000	650,000
501	3701	4136	22nd St (Dale - Hall) Waterline Replacement, 1,100LF 8"						350,000	350,000
501	3701	4185	Washington Ave (5th-7th) Waterline Replacement, 550LF 8"						200,000	200,000
501	3701	4188	Chestnut Pl (Oak - Elm) Waterline Replacement, 1,150LF of 8"						355,000	355,000
501	3701	4198	SW Wilson Ct (Kimberly - Hart) Waterline Replacement, 750LF 6"						250,000	250,000
501	3701	4199	PRV Decommissioning Project						75,000	75,000
501	3701	4200	163rd PRV Improvements						85,000	85,000
501	3701	4201	16599 SW Weir Rd PRV Improvements						60,000	60,000
501	3701	6006	Erickson Trunk Sewer Project						839,000	839,000
501	3701	6096	McKay Subdivision (Rollingwood)						50,000	50,000
501	3701	4169A	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 1 of 3 - 1*						530,000	530,000
501	3701	4169B	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 3 of 3 - 1*						30,000	30,000
501	3701	4169C	Nimbus North - Hall to Denney Commerce Center (System Upgrade) - NEW - Phase 2 of 3 - 1*						30,000	30,000
501	3701	8135b	4140 SW Watson StormOutfallRetrofit						400,000	400,000
			Totals - 3701 Water System Improvements	-	-	-	-	-	**4,534,000**	**4,534,000**
FUND 505 - WATER CONSTRUCTION FUND										
505	3620	4161	Denney Road Crossing at HW 217th - Replacement of 400 LF with 12" Waterline Upsizing.		20,000					20,000
			Totals - 3620 Extra Capacity Projects	-	**20,000**	-	-	-	-	**20,000**
505	3622	4058B	Cooper Mountain (5.5 MG) Reservoir No. 3 (Siting and Land Purchase)(Bond)			4,115,000				4,115,000
			Totals - 3622 Cooper Mountain Reservoir #2 & Water Lines (Bond)	-	-	**4,115,000**	-	-	-	**4,115,000**
505	3627	4159	**TVWD Program Manager**			685,000				685,000
505	3627	5090	Jenkins Waterline Extension - 153rd Ave to Merlo (opportunity project) (Bond)			37,500				37,500
			Totals - 3627 (Withdrawal of Areas from TVWD) (Bond)	-	-	**37,500**	-	-	-	**722,500**
505	3636	4051	Scoggins Dam Raise (TBWSP)		3,000					3,000
			Totals - 3636 Scoggins Dam Raise		**3,000**	-	-	-	-	**3,000**
505	3643	4155	Willamette Intake Facility			299,545				299,545
			Totals - 3646 WillametteIntake Facitily (WIF)		-	**299,545**	-	-	-	**299,545**

City of Beaverton
CIP Financial Plan - Water
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Fund #	Prog #	CIP #	Project Name	Anticipated ENTIRE Project Total	SDC	Bond Proceeds	IFA Loan Proceeds	WIFIA	Operating: Maint & Replacement	Funding Total
				Funding Source						
505	3645	4141	WWSP Supply Intertie (opportunity project) @ Cornelius Pass Road/TV Hwy. (Bond)			2,000				2,000
			Totals - 3645 Willamette Water Supply Interties (Bond)		-	**2,000**	-	-	-	**2,000**
505	3646	4126	Willamette Water Supply Program			6,772,439				6,772,439
			Totals - 3646 Willamette Water Supply Program (Bond)		-	**6,772,439**	-	-	-	**6,772,439**
FUND 506 - WIFIA WATER CONSTRUCTION FUND										
506	3680	4021G	South Cooper Mt. - Non-potable (purple pipe) Water System					865,000		865,000
506	3680	4058A	Cooper Mountain (5.5 MG) Reservoir No. 2 (Bond)					12,008,000		12,008,000
506	3680	4078C	Sexton Mt. Pump Station Upgrade and Energy Recovery					630,000		630,000
506	3680	4107	Meridian Pump Station Replacement (Bond)					430,000		430,000
506	3680	4154	Cooper Mountain Utility Master Plan					85,500		85,500
506	3680	4197	SCM Non-Potable Injection Well ASR 3					1,000,000		1,000,000
			Totals - 3680 South Cooper Mtn. Improvements	-	-	-	-	**15,018,500**	-	**15,018,500**
506	3681	4158	AMI Tower/Conversion							-
			Totals - 3681 AMI Infrastructure	-	-	-	-	-	-	-
506	3682	4021D	ASR Well No. 5 (includes combined facility w/Sorrento PS seismic upgrades)				2,452,355	4,017,645		6,470,000
506	3682	4021F	ASR Well No. 6 (well maintenance/testing)							-
506	3682	4021H	ASR Well No. 7 (Cooper Mt. ASR, well maintenance/testing)					3,267,000		3,267,000
			Totals - 3682 ASR Improvements	-	-	-	**2,452,355**	**7,284,645**	-	**9,737,000**
506	3683	4143	North Transmission Intertie Phase 1				1,635,000			**1,635,000**
			Totals - 3683 North Transmission Line		-	-	**1,635,000**	-	-	**1,635,000**
506	3684	4149	West Baseline Watermain Ext 158th to 163rd				22,000			22,000
506	3684	4171	Master Meter (Schendel/Walker)				88,000			88,000
506	3684	4175	Five Oaks School, 173rd to NW 167th, 12" water line, 1500 LF				500,000			500,000
506	3684	5105	Walker Rd Phase 3							-
506	3684	5088B	Walker Rd Phase 2				231,000			231,000
			Totals - 3684 North Transmission Intertie Connections	-	-	-	**841,000**	-	-	**841,000**
506	3685	4172	East Transmission Intertie - Nimbus to Western Ave (TVWD Opportunity Project)					678,750		678,750
506	3685	4174	East Transmission Intertie - SW Western Ave (TVWD Opportunity Project)					226,250		226,250
			Total - 3685 East Transmission Intertie	-	-	-	-	**905,000**	-	**905,000**
506	3686	4142	Tile Flat (WWSP - COB Intertie) Fluoridation and Pump Station					800,000		800,000
			Total - 3686 WWSP Connections	-	-	-	-	**800,000**	-	**800,000**
			Totals =>	-	**23,000**	**10,926,939**	**4,928,355**	**24,008,145**	**5,618,005**	**46,189,444**