



# Water Construction Fund

- Increased Capacity Capital Projects

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET

**WATER CONSTRUCTION FUND (MAJOR FUND)  
SUMMARY OF REVENUES AND EXPENDITURES  
AND OTHER FINANCING SOURCES & USES**

|   | <u>FY 2017-18<br/>Actual</u> | <u>FY 2018-19<br/>Actual</u> | <u>FY 2019-20<br/>Budgeted</u> | <u>FY 2019-20<br/>Estimated</u> | <u>FY 2020-21<br/>Adopted</u> |
|---|------------------------------|------------------------------|--------------------------------|---------------------------------|-------------------------------|
| <b>Revenues:</b>  |                              |                              |                                |                                 |                               |
| System development charges                                | \$1,517,100                  | \$1,271,117                  | \$1,000,000                    | \$1,000,000                     | \$1,000,000                   |
| Intergovernmental revenue                                 | 0                            | 0                            | 0                              | 0                               | 0                             |
| Interest on investments                                   | 11,043                       | 341,461                      | 346,600                        | 289,500                         | 322,000                       |
| Bond/financing proceeds                                   | 21,152,912                   | 0                            | 31,272,000                     | 33,758,996                      | 0                             |
| Miscellaneous   | 0                            | 195,821                      | 0                              | 0                               | 0                             |
| Sub Total Revenues  | <u>\$22,681,055</u>          | <u>\$1,808,399</u>           | <u>\$32,618,600</u>            | <u>\$35,048,496</u>             | <u>\$1,322,000</u>            |
| <b>Expenditures:</b>                                      |                              |                              |                                |                                 |                               |
| Materials & services                                      | 0                            | 0                            | 0                              | 0                               | 0                             |
| Capital outlay  | 5,966,154                    | 10,136,720                   | 25,819,100                     | 18,465,325                      | 11,934,484                    |
| Sub Total Expenditures                                    | <u>\$5,966,154</u>           | <u>\$10,136,720</u>          | <u>\$25,819,100</u>            | <u>\$18,465,325</u>             | <u>\$11,934,484</u>           |
| Revenues Over/Under Expenditures                          | 16,714,901                   | (8,328,321)                  | 6,799,500                      | 16,583,171                      | (10,612,484)                  |
| <b>Other financing sources (uses):</b>                    |                              |                              |                                |                                 |                               |
| Transfers in  | \$1,230,000                  | \$1,000,000                  | \$2,000,000                    | \$2,000,000                     | \$2,000,000                   |
| Transfers out   | 0                            | 0                            | (10,226,000)                   | (10,226,000)                    | (11,230,674)                  |
| Total Other Financing Sources<br>(Uses):                  | <u>\$1,230,000</u>           | <u>\$1,000,000</u>           | <u>(\$8,226,000)</u>           | <u>(\$8,226,000)</u>            | <u>(\$9,230,674)</u>          |
| Net Change in Fund Balance                                | \$17,944,901                 | (\$7,328,321)                | (\$1,426,500)                  | \$8,357,171                     | (\$19,843,158)                |
| Fund Balance/Working Capital<br>Beginning of Year         | <u>992,721</u>               | <u>18,937,622</u>            | <u>11,609,301</u>              | <u>11,609,301</u>               | <u>19,966,472</u>             |
| Fund Balance (Contingency)/Working<br>Capital End of Year | <u>\$18,937,622</u>          | <u>\$11,609,301</u>          | <u>\$10,182,801</u>            | <u>\$19,966,472</u>             | <u>\$123,314</u>              |

This fund accounts for water system construction costs funded through bond proceeds system development charges, and transfers from the water operating fund. Contingency represents the unused system development charges and bond sale proceeds which are available and allocated for construction projects in future years as identified in the City's Capital Improvement Plan.

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET

|  |                                    |
|--|------------------------------------|
| <b>FUND:</b><br>505 WATER CONSTRUCTION | <b>DEPARTMENT:</b><br>PUBLIC WORKS |
| <b>DEPARTMENT HEAD:</b><br>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 Water Construction Fund. This fund accounts for expenditures for improvements to the system with the three sources of revenue: System Development Charges (SDCs), transfers from operating revenue and an occasional revenue bond. Due to an increase in real estate development, SDCs have rebounded somewhat from previous recessionary years. Contributions of operating funds for the replacement portion of capital projects continues to be a challenge as metered consumption has flattened and operating revenue is limited. The sale of revenue bonds funds for major facility construction projects is expected over the next five years. With the pending award of US EPA Water Infrastructure and Innovation Act (WIFIA) funding, most of the existing Water Construction Fund (505) projects will be shifted to the Water Construction Fund - WIFIA Projects (506) in FY 2020-21.

| REQUIREMENTS   | FY 2017-18<br>ACTUAL | FY 2018-19<br>ACTUAL | FY 2019-20<br>BUDGETED | FY 2020-21<br>PROPOSED | FY 2020-21<br>ADOPTED |
|----------------|----------------------|----------------------|------------------------|------------------------|-----------------------|
| CAPITAL OUTLAY | \$5,966,154          | \$10,136,720         | \$25,819,100           | \$11,934,484           | \$11,934,484          |
| TRANSFERS      | 0                    | 0                    | 10,226,000             | 11,230,674             | 11,230,674            |
| CONTINGENCY    | 0                    | 0                    | 10,182,801             | 123,314                | 123,314               |
| <b>TOTAL</b>   | <b>\$5,966,154</b>   | <b>\$10,136,720</b>  | <b>\$46,227,901</b>    | <b>\$23,288,472</b>    | <b>\$23,288,472</b>   |

**Funding Sources:**

|                           | FY 2017-18 | FY 2018-19   | FY 2019-20   | FY 2020-21   | FY 2020-21   |
|---------------------------|------------|--------------|--------------|--------------|--------------|
| Beginning Working Capital | \$992,721  | \$18,937,622 | \$11,609,301 | \$19,966,472 | \$19,966,472 |
| System Development Fees   | 1,517,101  | 1,271,117    | 1,000,000    | 1,000,000    | 1,000,000    |
| Miscellaneous Revenue     | 11,043     | 537,282      | 346,600      | 322,000      | 322,000      |
| Loan Proceeds             | 21,152,912 | 0            | 31,272,000   | 0            | 0            |
| Transfers from:           |            |              |              |              |              |
| Water Fund                | 1,230,000  | 1,000,000    | 2,000,000    | 2,000,000    | 2,000,000    |

**Funding of Projects:**

|   |           |           |            |           |           |
|---|-----------|-----------|------------|-----------|-----------|
| 3620 Water Extra Capacity Supply System                                     | 622,379   | 1,325,949 | 165,500    | 20,000    | 20,000    |
| 3621 ASR No. 5 Project  | 37,470    | 78,947    | 810,000    | 0         | 0         |
| 3622 Cooper Mtn Rsvr #2 and Water Lines                                     | 895,535   | 3,392,898 | 5,318,000  | 4,115,000 | 4,115,000 |
| 3623 Non Potable Purple Pipe Projects                                       | 283,897   | 561,335   | 515,000    | 0         | 0         |
| 3625 So. Cooper Mtn Water Capacity Proj                                     | 0         | 0         | (290,500)  | 0         | 0         |
| 3627 Withdrawal of Areas from TVWD  | 2,788,481 | 1,753,220 | 2,059,100  | 722,500   | 722,500   |
| 3628 TVWD Opportunity Projects  | 0         | 0         | 0          | 0         | 0         |
| 3631 Meridian Pump Station Repl.  | 66,993    | 768,698   | 435,000    | 0         | 0         |
| 3636 Scoggins Dam Raise Project   | 0         | 0         | 3,000      | 3,000     | 3,000     |
| 3643 Willamette Water Supply System   | 314,432   | 98,543    | 82,000     | 299,545   | 299,545   |
| 3644 So. Cooper Mtn. Extra Capacity   | 956,967   | 1,747,986 | 16,000     | 0         | 0         |
| 3645 Willamette Water System Intertie                                       | 0         | 409,144   | 4,886,000  | 2,000     | 2,000     |
| 3646 Willamette Water Supply Project -<br>Treatment, Storage & Transmission | 0         | 0         | 11,820,000 | 6,772,439 | 6,772,439 |

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET

|  |                                      |
|--|--------------------------------------|
| <b>FUND:</b><br>505 WATER CONSTRUCTION                 | <b>DEPARTMENT:</b><br>PUBLIC WORKS   |
| <b>PROGRAM:</b><br>INCREASED CAPACITY CAPITAL PROJECTS | <b>DEPARTMENT HEAD:</b><br>CHAD LYNN |

**Progress on FY 2019-20 Action Plan:**

Significant water capacity projects budgeted, designed and/or constructed in FY 2019-20 are listed below. Projects appear in the budget under the various funds and programs. During FY 2019-20, the list of projects grew as development opportunities continued in the Cooper Mountain area and the city continued the transfer of water service from Tualatin Valley Water District (TVWD) for properties already within the city limits. Additionally, the city's participation as a Willamette Water Supply Project (WWSP) member requires extensive construction of new capital assets.

**Program: Water Extra Capacity- 3620**

| <b><u>CIP Project No.</u></b> | <b><u>CIP Project Name</u></b>  |
|-------------------------------|---|
| 3302                          | Farmington Road Utility Improvements (148th Ave to Hocken Rd), complete |
| 4133                          | Backup Generator  |
| 4024P                         | Water Extra-Capacity Projects   |
| 4118B                         | Settler Way Waterline Replacement (2,000 LF of 6"&8") Phase 2           |

**Program: ASR 5 Project – IFA Loan – 3621**

|       |   |
|-------|---|
| 4021D | ASR Well No. 5 – Final engineering for well and Sorrento Pump Station |
| 4167  | Corrosion Control   |

**Program: Cooper Mountain Reservoir #2 and Transmission Mains (bonded) – 3622**

|       |  |
|-------|--|
| 5092B | 175th/Kemmer Intersection (upgrade existing and new 24" waterline) |
| 5092C | SW 175th/Weir Road Water Transmission Line                         |
| 4058A | Cooper Mt. Reservoir No. 2, preliminary design only                |

**Program: Non-Potable “Purple Pipe” Mains – 3623**

|       |  |
|-------|--|
| 4021G | ASR No. 3a well drilling in South Cooper Mt. (SCM) - Non-potable purple-pipe water system and award contract for the Non-Potable System Program Manager in South Cooper Mountain |
|-------|--|

**Program: S. Cooper Mtn. SDC Projects – 3625**

|       |  |
|-------|--|
| 6083  | South Cooper Mt. Infrastructure – Potable  |
| 5092A | SW 175th - Scholls to Alvord (extend 24" waterline 1,200 LF & connections to other waterlines) |

**Program: Withdrawal of Areas from TVWD – 3627**

|       |  |
|-------|--|
| 5090  | Jenkins Bridge Crossing, complete final design, begin construction |
| 4128C | 158 <sup>th</sup> @ Merlo Connection to Jenkins Road completed     |
| 4128A | Cedar Hills Blvd/Jenkins/Walker Road system improvements completed |

**Program: Meridian Pump Station – 3631**

|      |   |
|------|---|
| 4107 | Meridian Pump Station Replacement and Upgrade, preliminary and final design, begin roadway piping |
|------|---|

**Program: Willamette River Water Supply – 3643 (bonded)**

|      |   |
|------|---|
| 4126 | Willamette Water Supply Program – Negotiation and executing IGA to become a financial partner in the Program and joined the Willamette Water Intake Facility Commission (WIF) |
| 4141 | WWSP Supply Intertie @ Cornelius Pass Road and TV Highway – Final design and bidding of project   |

**Program: S. Cooper Mtn. Extra Capacity Projects (bonded) – 3644**

|      |  |
|------|--|
| 4122 | Completion of Alvord Lane Waterline, 2,500 LF of 16" |
|------|--|

CITY OF BEAVERTON, OREGON  
FISCAL YEAR 2020-21 BUDGET

|  |                                      |
|--|--------------------------------------|
| <b>FUND:</b><br>505 WATER CONSTRUCTION                 | <b>DEPARTMENT:</b><br>PUBLIC WORKS   |
| <b>PROGRAM:</b><br>INCREASED CAPACITY CAPITAL PROJECTS | <b>DEPARTMENT HEAD:</b><br>CHAD LYNN |

**FY 2020-21 Action Plan:**

During FY 2020-21, most projects in the Water Construction Fund (505) transitioned to the Water Construction Fund – WIFIA Projects (506). Remaining projects on 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**

| <u>CIP Project No.</u> | <u>CIP Project Name</u>   |
|------------------------|---|
| 4161                   | Denney Road Crossing at HWY 217th - Replacement of 400 LF with 12" Waterline Upsizing |

**Program: Cooper Mountain Reservoir #2 and Transmission Mains (bonded) – 3622**

|       |   |
|-------|---|
| 4058B | Cooper Mountain (5.5 MG) Reservoir No. 3 (Siting and Land Purchase) |
|-------|---|

**Program: Withdrawal of Areas from TVWD – 3627 (bonded)**

|      |  |
|------|--|
| 4159 | TVWD Water Service Transfer Program Manager  |
| 5090 | Jenkins Road & Bridge Crossing – SW 153 <sup>rd</sup> to SW 158 <sup>th</sup> Avenue |

**Program: Scoggins Dam Raise Project– 3636**

|      |                            |
|------|----------------------------|
| 4051 | Scoggins Dam Raise (TBWSP) |
|------|----------------------------|

**Program: JWC Capacity Projects – 3635**

|      |   |
|------|---|
| 3635 | JWC Capacity Projects – Water Treatment Plant (WTP) upgrade and expansion |
|------|---|

**Program: Willamette River Water Supply – 3643 (bonded)**

|      |   |
|------|---|
| 4126 | Willamette Water Supply Program – intake facility upgrade (WIF) |
| 4141 | WWSS Supply Intertie @ Cornelius Pass Road and TV Highway       |

**City of Beaverton  
CIP Financial Plan - Water  
FY 2020-21 Adopted**

| Fund #   | Prog # | CIP # | Project Name  | Funding Source                         |        |               |                   |       | Funding Total |
|--|--------|-------|---|--|--------|---------------|-------------------|-------|---------------|
|  |        |       |   | Anticipated<br>ENTIRE Project<br>Total | SDC    | Bond Proceeds | IFA Loan Proceeds | WIFIA |               |
| <b>FUND 505 - WATER CONSTRUCTION FUND</b>                                  |        |       |   |  |        |               |                   |       |               |
| 505  | 3620   | 4161  | Denney Road Crossing at HW 217th - Replacement of 400 LF with 12" Waterline Upsizing. |  | 20,000 |               |                   |       | 20,000        |
| <b>Totals - 3620 Extra Capacity Projects</b>                               |        |       |   | -                                      | 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     |
| <b>Totals - 3622 Cooper Mountain Reservoir #2 &amp; Water Lines (Bond)</b> |        |       |   | -                                      | -      | 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        |
| <b>Totals - 3627 (Withdrawal of Areas from TVWD) (Bond)</b>                |        |       |   | -                                      | -      | 37,500        | -                 | -     | 722,500       |
| 505  | 3636   | 4051  | Scoggins Dam Raise (TBWSP)  |  | 3,000  |               |                   |       | 3,000         |
| <b>Totals - 3636 Scoggins Dam Raise</b>                                    |        |       |   |  | 3,000  | -             | -                 | -     | 3,000         |
| 505  | 3643   | 4155  | Willamette Intake Facility  |  |        | 299,545       |                   |       | 299,545       |
| <b>Totals - 3646 Willamette Intake Facility (WIF)</b>                      |        |       |   |  | -      | 299,545       | -                 | -     | 299,545       |
| 505  | 3645   | 4141  | WWSP Supply Intertie (opportunity project) @ Cornelius Pass Road/TV Hwy. (Bond)       |  |        | 2,000         |                   |       | 2,000         |
| <b>Totals - 3645 Willamette Water Supply Interties (Bond)</b>              |        |       |   |  | -      | 2,000         | -                 | -     | 2,000         |
| 505  | 3646   | 4126  | Willamette Water Supply Program   |  |        | 6,772,439     |                   |       | 6,772,439     |
| <b>Totals - 3646 Willamette Water Supply Program (Bond)</b>                |        |       |   |  | -      | 6,772,439     | -                 | -     | 6,772,439     |
| <b>TOTALS</b>  |        |       |   | -                                      | 23,000 | 11,226,484    | -                 | -     | 11,934,484    |