



# Utility Services

2019

**FUNDING BY PROGRAM AREA**

**RECOMMEND**

**BASIC UTILITY SERVICES**

Water

|                        |                  |
|------------------------|------------------|
| Water Plant Operations | \$1,662,373      |
| Water Plant Capital    | 100,000          |
| Capital Facilities     | 1,525,000        |
| <b>SUBTOTAL</b>        | <b>3,287,373</b> |

Water Reclamation

|                            |                  |
|----------------------------|------------------|
| Water Rec.Plant Operations | 2,026,673        |
| Water Rec. Plant Capital   | 195,000          |
| Capital Facilities         | 2,180,000        |
| <b>SUBTOTAL</b>            | <b>4,401,673</b> |

Solid Waste

|                    |          |
|--------------------|----------|
| Curbside Recycling | 0        |
| <b>SUBTOTAL</b>    | <b>0</b> |

Storm Water Drainage

|                      |                  |
|----------------------|------------------|
| Storm Water Drainage | 0                |
| Capital Facilities   | 1,114,000        |
| <b>SUBTOTAL</b>      | <b>1,114,000</b> |

|              |                    |
|--------------|--------------------|
| <b>Total</b> | <b>\$8,803,046</b> |
|--------------|--------------------|

Department:  
Utility Services

Division:  
Water Production

Fund:  
Water

Account No:  
201-550-501

| Resource Summary          | 2017                | 2018                | 2019                |
|---------------------------|---------------------|---------------------|---------------------|
| Expenditure Categories    | Actual              | Budget              | Recommend           |
| Personnel Services        | \$ 887,684          | \$ 973,503          | \$ 1,006,240        |
| Operation and Maintenance | 572,022             | 649,133             | 656,133             |
| Capital Outlay            | 219,367             | 290,000             | 100,000             |
| Total                     | <u>\$ 1,679,073</u> | <u>\$ 1,912,636</u> | <u>\$ 1,762,373</u> |
| Total Positions           | 10                  | 10                  | 10                  |
| <hr/>                     |                     |                     |                     |
| Funding by Source         |                     |                     |                     |
| Water                     | \$ <u>1,679,073</u> | \$ <u>1,912,636</u> | \$ <u>1,762,373</u> |
| Total                     | <u>\$ 1,679,073</u> | <u>\$ 1,912,636</u> | <u>\$ 1,762,373</u> |

Program Description:

Supply, filtration, pumping and storage of potable water for the City of Kent are the major responsibilities of this division. The City's water plant treats an average 2.46 million gallons of water per day (MGD) with a present capacity of 6 MGD. With modification, the plant capacity can be doubled. Development of a secondary well field to ensure an adequate future water supply is a major concern of the administration.

Program Comments:

The 2019 recommended operation and maintenance reflects an increase of \$7,000.00 or 1.08% compared to the 2018 budget for the Water Treatment Plant.

Department:  
Utility Services

Division:  
Water Production

Fund:  
Water

Account No:  
201-550-501-

| Line Description                         | 2017<br>Actual      | 2018<br>Budget      | 2019<br>Recommend   |
|--|---------------------|---------------------|---------------------|
| 7001 Employee - Regular Salaries         | \$ 580,822          | \$ 637,730          | \$ 656,862          |
| 7004 Retirement (PERS)                   | 89,171              | 98,383              | 101,061             |
| 7005 Medicare                            | 9,057               | 10,190              | 10,467              |
| 7006 Health Insurance                    | 134,367             | 147,000             | 156,000             |
| 7007 Uniform & Clothing Allow.           | 0                   | 0                   | 0                   |
| 7008 Overtime                            | 59,543              | 65,000              | 65,000              |
| 7009 Unemployment & Workers' Comp        | 14,724              | 15,200              | 16,850              |
| <b>Total Personnel Services</b>          | <b>\$ 887,684</b>   | <b>\$ 973,503</b>   | <b>\$ 1,006,240</b> |
| 7210 Travel & Training                   | \$ 1,502            | \$ 3,500            | \$ 3,500            |
| 7280 Vehicle Fuel                        | 6,223               | 8,000               | 8,000               |
| 7310 Utilities                           | 204,778             | 206,000             | 213,000             |
| 7320 Communications/Postage              | 7,316               | 7,500               | 7,500               |
| 7330 Rents & Leases                      | 3,835               | 5,000               | 5,000               |
| 7340 Professional Services               | 2,232               | 6,000               | 6,000               |
| 7350 Maintenance of Equipment & Facility | 41,292              | 45,000              | 45,000              |
| 7360 Insurance & Bonding                 | 31,800              | 39,233              | 39,233              |
| 7370 Printing, Photocopy, Advertising    | 446                 | 500                 | 500                 |
| 7390 Misc. Contractual Service           | 39,669              | 42,000              | 42,000              |
| 7410 Office Supplies                     | 937                 | 1,400               | 1,400               |
| 7420 Operating Materials                 | 227,093             | 278,000             | 278,000             |
| 7440 Small Tools/Minor Equipment         | 4,899               | 7,000               | 7,000               |
| <b>Total Operation &amp; Maintenance</b> | <b>\$ 572,022</b>   | <b>\$ 649,133</b>   | <b>\$ 656,133</b>   |
| 7620 Buildings                           |                     | 0                   |                     |
| 7630 Equipment Items > \$2,500           | 105,968             |                     |                     |
| WTP Misc Plant Equipment                 |                     | 50,000              | 50,000              |
| Vehicle Replacement (4x4)(WTP18-03)      |                     | 30,000              |                     |
| Lime Sludge Truck 1/3 (17-009)           |                     |                     |                     |
| 7680 Contract                            | \$ 113,399          | \$                  | \$                  |
| Well Cleaning No. 12(WTP18-05)           |                     | 35,000              |                     |
| Rehab (2) Rapid Sand Filters             |                     | 125,000             |                     |
| Well Field Development                   |                     | 50,000              | 50,000              |
| Paint KSU Tank                           |                     |                     |                     |
| Well Cleaning No. 13                     |                     |                     |                     |
| <b>Total Capital Outlay</b>              | <b>\$ 219,367</b>   | <b>\$ 290,000</b>   | <b>\$ 100,000</b>   |
| <b>Total</b>                             | <b>\$ 1,679,073</b> | <b>\$ 1,912,636</b> | <b>\$ 1,762,373</b> |

Department:  
Utility Services

Division:  
Water Reclamation

Fund:  
Sewer

Account No:  
202-550-503

| Resource Summary          | 2017                | 2018                | 2019                |
|---------------------------|---------------------|---------------------|---------------------|
| Expenditure Categories    | Actual              | Budget              | Recommend           |
| Personnel Services        | \$ 1,178,611        | \$ 1,243,972        | \$ 1,294,814        |
| Operation and Maintenance | 658,744             | 767,409             | 731,859             |
| Capital Outlay            | <u>291,441</u>      | <u>360,800</u>      | <u>195,000</u>      |
| Total                     | <u>\$ 2,128,796</u> | <u>\$ 2,372,181</u> | <u>\$ 2,221,673</u> |
| Total Positions           | 13                  | 13                  | 13                  |
| <hr/>                     |                     |                     |                     |
| Funding by Source         |                     |                     |                     |
| Sewer                     | \$ 2,128,796        | \$ 2,372,181        | \$ 2,221,673        |
| Lab                       | <u>0</u>            | <u>0</u>            | <u>0</u>            |
| Total                     | <u>\$ 2,128,796</u> | <u>\$ 2,372,181</u> | <u>\$ 2,221,673</u> |

Program Description:

The Kent Water Reclamation Facility has a design flow of 5.0 million gallons per day and is currently treating an average daily flow of 2.30 million gallons (2011 data). The overall treatment process is termed *advanced secondary activated sludge* and utilizes physical, chemical and biological methods for the removal of conventional pollutants in addition to phosphorus and ammonia from the sewage waste stream.

Major treatment processes include influent screening, grit removal, ferrous chloride addition, pre-aeration, primary clarification, alkalinity addition, aeration, secondary clarification, chlorination, de-chlorination, post-aeration, anaerobic digestion, belt press bio-solids dewatering and bio-solids disposal/reuse. The treated water is discharged into the Cuyahoga River via an NPDES permit issued by the Ohio EPA. The stabilized and dewatered bio-solids are transported to the PPG land reclamation site in Barberton, Ohio for the purpose of beneficial reuse.

This division also is responsible for the operation and maintenance of eight off-site sewage pump stations and the Kent Dam waterfall pumping system.

Program Comments:

The 2019 recommended operation and maintenance reflects a decrease of 4.63%, or \$35,550.00 compared to the 2018 budget.

Department:  
Utility Services

Division:  
Water Reclamation

Fund:  
Sewer

Account No:  
202-550-503-

| Line Description                         | 2017<br>Actual      | 2018<br>Budget      | 2019<br>Recommend   |
|--|---------------------|---------------------|---------------------|
| 7001 Employee - Regular Salaries         | \$ 841,593          | \$ 871,549          | \$ 906,411          |
| 7004 Retirement (PERS)                   | 114,810             | 125,377             | 129,700             |
| 7005 Medicare                            | 11,004              | 12,986              | 13,433              |
| 7006 Health Insurance                    | 174,908             | 191,100             | 202,800             |
| 7007 Uniform & Clothing Allowance        | 0                   | 0                   | 0                   |
| 7008 Overtime                            | 17,890              | 24,000              | 20,000              |
| 7009 Unemployment & Workers' Comp        | 18,406              | 18,960              | 22,470              |
| <b>Total Personnel Services</b>          | <b>\$ 1,178,611</b> | <b>\$ 1,243,972</b> | <b>\$ 1,294,814</b> |
| 7210 Travel & Training                   | \$ 1,892            | \$ 7,500            | \$ 6,000            |
| 7280 Vehicle Fuel                        | 5,048               | 8,000               | 8,000               |
| 7310 Utilities                           | 208,114             | 226,000             | 218,500             |
| 7320 Communications/Postage              | 12,560              | 13,500              | 13,500              |
| 7330 Rents & Leases                      | 2,065               | 2,500               | 2,500               |
| 7340 Professional Services               | 25,443              | 37,000              | 40,000              |
| 7350 Maintenance of Equipment & Facility | 48,255              | 65,000              | 70,000              |
| 7360 Insurance & Bonding                 | 35,258              | 42,709              | 42,709              |
| 7370 Printing, Photocopy, Advertising    | 138                 | 400                 | 650                 |
| 7390 Misc. Contractual Service           | 99,237              | 149,800             | 155,000             |
| 7410 Office Supplies                     | 781                 | 1,500               | 1,500               |
| 7420 Operating Materials                 | 217,796             | 210,000             | 170,000             |
| 7440 Small Tools/Minor Equipment         | 2,157               | 3,500               | 3,500               |
| <b>Total Operation &amp; Maintenance</b> | <b>\$ 658,744</b>   | <b>\$ 767,409</b>   | <b>\$ 731,859</b>   |
| 7630 Equipment Items > \$2,500           | \$ 248,841          | \$                  | \$                  |
| WRF-Misc Plant Equipment                 |                     | 50,000              | 50,000              |
| SCADA Updates                            |                     |                     | 20,000              |
| Final Clarifiers Weir Covers             |                     | 25,000              | 60,000              |
| Aeration Tank Ammonia Probe System       |                     |                     |                     |
| Lime Sludge Truck 1/3 (17-009)           |                     |                     |                     |
| Motor Control Replacement                |                     | 175,000             |                     |
| Radios For Lift Station                  |                     | 39,000              |                     |
| Influent Barscreen Rehab Project         |                     |                     |                     |
| Single Stack Dishwasher                  |                     | 12,000              |                     |
| Concrete Repair Project(WR-17-03)        |                     |                     | 5,000               |
| Replace Dissolved O2Probes               |                     | 9,800               |                     |
| Electrical Replacement                   |                     |                     |                     |
| Sand Blast and Final Coat Clarifier      |                     | 50,000              | 50,000              |
| 7680 Contract                            | 42,600              |                     |                     |
| Waterfall/Dam Upkeep                     |                     |                     | 10,000              |
| D.A.F. Bldg. Roof Repair/Replacement     |                     |                     |                     |
| <b>Total Capital Outlay</b>              | <b>\$ 291,441</b>   | <b>\$ 360,800</b>   | <b>\$ 195,000</b>   |
| <b>Total</b>                             | <b>\$ 2,128,796</b> | <b>\$ 2,372,181</b> | <b>\$ 2,221,673</b> |

|                                 |                                 |                               |  |
|---------------------------------|---------------------------------|-------------------------------|--|
| Department:<br>Utility Services | Division:<br>Capital Facilities | Fund:<br>Water, Sewer & Storm | Account No:<br>201-550-502<br>202-550-505<br>208-550-508 |
|---------------------------------|---------------------------------|-------------------------------|--|

| Resource Summary<br>Expenditure Categories | 2017<br>Actual      | 2018<br>Budget      | 2019<br>Recommend   |
|--|---------------------|---------------------|---------------------|
| Personnel Services                         | \$ 18,930           | \$                  | \$                  |
| Operation and Maintenance                  | 1,182,828           | 4,409,675           | 4,819,000           |
| Capital Outlay                             | <u>1,201,758</u>    | <u>4,409,675</u>    | <u>4,819,000</u>    |
| Total                                      | \$ <u>1,201,758</u> | \$ <u>4,409,675</u> | \$ <u>4,819,000</u> |
| <b>Total Positions</b>                     | 0                   | 0                   | 0                   |
| <hr/>                                      |                     |                     |                     |
| Funding by Source                          |                     |                     |                     |
| Water                                      | \$ 208,783          | \$ 1,249,675        | \$ 1,525,000        |
| Sewer                                      | 796,408             | 2,652,500           | 2,180,000           |
| Storm Water Drainage                       | 196,567             | 507,500             | 1,114,000           |
| Total                                      | \$ <u>1,201,758</u> | \$ <u>4,409,675</u> | \$ <u>4,819,000</u> |

Program Description:

This cost center covers capital improvements to the water and sewer infrastructure that are not specifically related to plant operations. Beginning in 2008, storm water drainage capital improvements were included in this cost center.

Program Comments:

This division is used to fund implementation of the five year capital improvement plan on an annual basis relative to public utilities. All project expenditures are presented to City Council in the annual CIP Plan Update.

|                  |                    |  |  |
|------------------|--------------------|--|--|
| Department:      | Division:          | Fund:                                  | Account No:                                  |
| Utility Services | Capital Facilities | Water, Sewer &<br>Storm Water Drainage | 201-550-502-<br>202-550-505-<br>208-550-508- |

| Line Description                             | 2017<br>Actual      | 2018<br>Budget      | 2019<br>Recommend   |
|--|---------------------|---------------------|---------------------|
| 7340 Professional Services                   | 18,930              |                     |                     |
| 7360 Insurance & Bonding                     | 0                   |                     |                     |
| 7370 Printing, Photocopy & Advertising       | 0                   |                     |                     |
| 7420 Operating Materials                     | 0                   |                     |                     |
| <b>Total Operation &amp; Maintenance</b>     | <b>\$ 18,930</b>    | <b>\$ 0</b>         | <b>\$ 0</b>         |
| 7610 Lands                                   | \$                  | \$                  | \$                  |
| 7630 Equipment                               | 0                   |                     |                     |
| Confined Space Entry Unit4(FD-15-06)         |                     |                     |                     |
| 7680 Contract                                | 1,182,828           |                     |                     |
| Hudson Road Water Main Replacement           |                     |                     | 1,074,000           |
| Valleyview/Morris Water and Storm            |                     | 150,000             |                     |
| Sanitary Sewer Televising                    |                     |                     | 70,000              |
| Annual Street Program                        |                     | 20,000              | 20,000              |
| Miller/Harvey/Steel Storm and Water          |                     | 962,175             | 1,500,000           |
| Specifications Update                        |                     |                     | 30,000              |
| SR 59 and 43 Catch Basin Repairs/Replacement |                     |                     | 25,000              |
| North-Central Sanitary Sewer Study           |                     | 50,000              |                     |
| North-Central Sanitary Sewer Temporary       |                     | 300,000             |                     |
| Storm Water Utility Phase 2                  |                     | 75,000              |                     |
| Utility Mapping Update                       |                     | 22,500              |                     |
| Southwest Sanitary Pump Station              |                     | 2,170,000           | 2,100,000           |
| <b>Total Capital Outlay</b>                  | <b>\$ 1,182,828</b> | <b>\$ 3,749,675</b> | <b>\$ 4,819,000</b> |
| <b>Total</b>                                 | <b>\$ 1,201,758</b> | <b>\$ 3,749,675</b> | <b>\$ 4,819,000</b> |





Department:  
Utility Services

Division:  
Capital Facilities

Fund:  
Water, Sewer, & Storm Drainage

Account No:  
201-550-502-  
202-550-505-  
208-550-508-

| Line Description                             | Water               | Sewer               | Storm Water<br>Drainage | 2019<br>Total       |
|--|---------------------|---------------------|-------------------------|---------------------|
| 7340 Professional Services                   |                     |                     |                         | 0                   |
| 7360 Insurance & Bonding                     |                     |                     |                         | 0                   |
| 7370 Printing, Photocopy & Advertising       |                     |                     |                         | 0                   |
| 7420 Operating Materials                     |                     |                     |                         | 0                   |
| <b>Total Operation &amp; Maintenance</b>     | <b>\$ 0</b>         | <b>\$ 0</b>         | <b>\$ 0</b>             | <b>0</b>            |
| 7610 Land                                    |                     |                     |                         | 0                   |
| 7630 Capital Equipment > \$2500              |                     |                     |                         | 0                   |
| 7680 Contract                                |                     |                     |                         | 0                   |
| Hudson Road Water Main Replacement           | 1,015,000           |                     | 59,000                  | 1,074,000           |
| Annual Street Program                        |                     |                     | 20,000                  | 20,000              |
| Sanitary Sewer Televising                    |                     | 70,000              |                         | 70,000              |
| Miller/Harvey/Steel Storm and Water          | 500,000             |                     | 1,000,000               | 1,500,000           |
| Specifications Update                        | 10,000              | 10,000              | 10,000                  | 30,000              |
| SR 59 and 43 Catch Basin Repairs/Replacement |                     |                     | 25,000                  | 25,000              |
| Storm Water Utility Phase 2                  |                     |                     |                         | 0                   |
| Utility Mapping Update                       |                     |                     |                         | 0                   |
| Southwest Sanitary Pump Station              |                     | 2,100,000           |                         | 2,100,000           |
| <b>Total Capital Outlay</b>                  | <b>\$ 1,525,000</b> | <b>\$ 2,180,000</b> | <b>\$ 1,114,000</b>     | <b>\$ 4,819,000</b> |
| <b>Total</b>                                 | <b>\$ 1,525,000</b> | <b>\$ 2,180,000</b> | <b>\$ 1,114,000</b>     | <b>\$ 4,819,000</b> |

