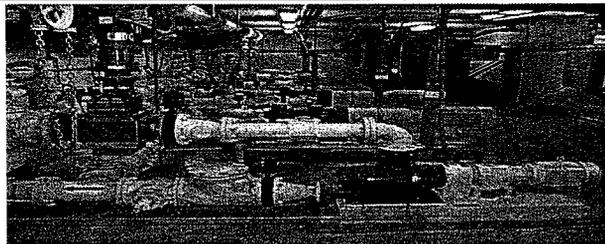


**2017-2026 TOWN COUNCIL
CAPITAL IMPROVEMENT PROGRAM**

| Page # | Description | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 |
|---------|--|--------------------|--------------------|------------------|------------------|--------------------|------------------|------------------|------------------|------------|------------|
| 124 | Wastewater Fund | | | | | | | | | | |
| 125 | Wastewater Facilities Plan | 425,000 | 287,000 | 283,000 | 148,000 | 402,000 | 363,000 | 145,000 | 318,000 | | |
| 126 | WWTP Major Components Contingency | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | 50,000 | | |
| 127 | Collection System Repair/Upgrade (Town/UNH) | 30,000 | | | | | | | | | |
| 128 | Collection System Repair/Upgrade (Town Only) | 65,000 | | | | | | | | | |
| 129 | Woodman Road Sewer Improvements | 245,000 | | | | | | | | | |
| 130 | Oyster River Road Pump Station Maintenance | 30,000 | | | | | | | | | |
| 131-132 | 18" Force Main Replacement | 252,000 | 2,187,000 | | | | | | | | |
| 133-134 | 3/4 Ton Pickup Truck Replacement | | 27,500 | 27,500 | | | | | | | |
| 135-136 | WWTP Phase III | | | | 450,000 | 2,850,000 | | | | | |
| 137 | Backhoe Replacement (Cost split w/Oper. & Water) | | | | | | 26,500 | | | | |
| 138 | Commercial Lawnmower | | | | | | 17,500 | | | | |
| | TOTAL WASTEWATER FUND | \$1,097,000 | \$2,551,500 | \$360,500 | \$648,000 | \$3,302,000 | \$457,000 | \$195,000 | \$368,000 | \$0 | \$0 |

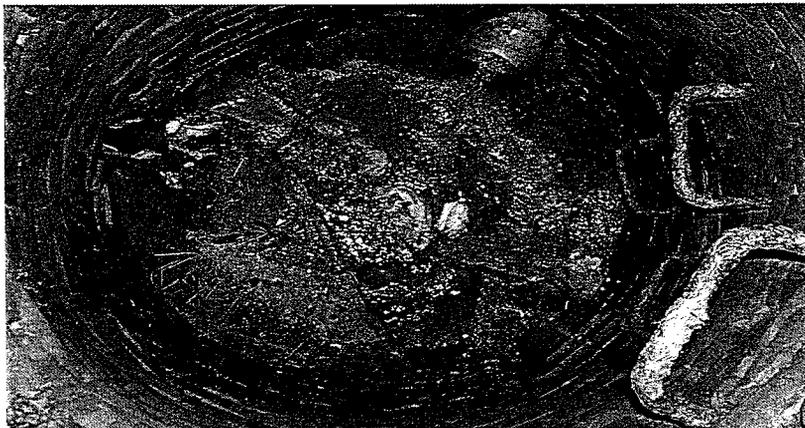
CAPITAL IMPROVEMENT PROGRAM

| | | | |
|---|---|---------------------|----------------------------------|
| PROJECT YEAR | 2017-2024 | PROJECT COST | YEAR 2017 - \$425,000 |
| DESCRIPTION | <i>Wastewater Facilities Plan</i> | DEPARTMENT | <i>Public Works - Wastewater</i> |
| IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.) | | | |
| <i>Dept Initiative</i> | | | |
| DESCRIPTION (TO INCLUDE JUSTIFICATION) | | | |
| <p><u>2017</u> - \$425,000 - Additional funds for Grit System and Primary Clarifier Mechanisms, Windows/Doors/Lighting Upgrade \$390,000, Update Phone System \$20,000, Lab Equipment, \$15,000</p> <p><u>2018</u> - \$287,000 - Fire Alarm System, \$50,000, Replace electric manhole, \$57,000 (2) scum pumps \$90,000, slide gates \$75,000, Lab Equipment \$15,000</p> <p><u>2019</u> - \$283,000 - Replacement of primary gates \$73,000, Upgrade electrical equipment for compliance \$210,000</p> <p><u>2020</u> - \$148,000 - Install kick plates around all railings \$51,000, additional sodium hydroxide tanks \$24,000, replace yard pump station \$73,000</p> <p><u>2021</u> - \$402,000 - Install a partition wall in sludge building \$402,000</p> <p><u>2022</u> - \$363,000 - Replace (4) primary sludge pumps \$293,000, replace ventilation and heating system in blower room \$70,000</p> <p><u>2023</u> - \$145,000 - Fixture replacement with accessibility \$145,000</p> <p><u>2024</u> - \$318,000 - Upgrade headworks ventilation \$116,000, investigate solar array for rooftops on buildings \$202,000</p> | | | |
| Per current Agreement, these projects would be funded 2/3 UNH and 1/3 Town. | | | |
| ESTIMATED COSTS: | PRELIMINARY STUDY, DESIGN AND ENGINEERING | \$ | - |
| | FINAL DESIGN AND ENGINEERING | \$ | - |
| | CONSTRUCTION ENGINEERING OVERSIGHT | \$ | - |
| | CONSTRUCTION COSTS | \$ | 425,000 |
| | CONTINGENCY | \$ | - |
| | TOTAL PROJECT COST | \$ | 425,000 |
| FINANCING | OPERATING BUDGET | \$ | - |
| | UNH - CASH | \$ | - |
| | BOND - TOWN PORTION | \$ | 141,667 |
| | UNH PORTION | \$ | 283,333 |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 425,000 |
| IF BONDED: | NUMBER OF YEARS | | 10 |
| | TOTAL PRINCIPAL | \$ | 425,000 |
| | TOTAL INTEREST | \$ | 39,600 |
| | TOTAL ESTIMATED COST | \$ | 464,600 |



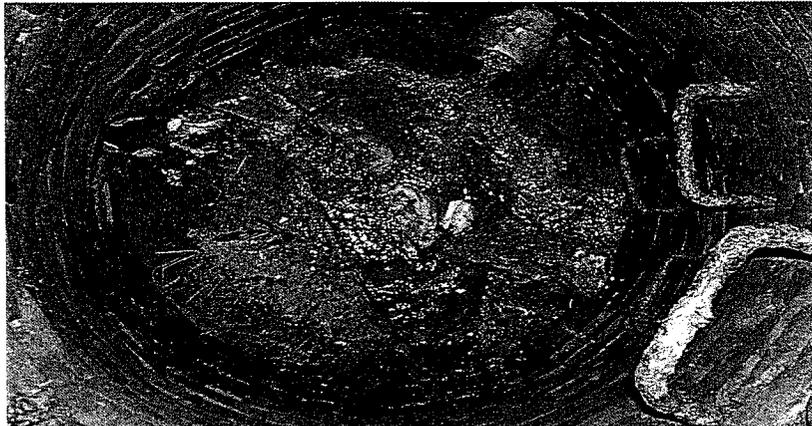
CAPITAL IMPROVEMENT PROGRAM

| | | | |
|---|---|---------------------|---------------------------|
| PROJECT YEAR | 2017-2026 | PROJECT COST | \$50,000 |
| DESCRIPTION | WWTP Major Components Contingency | DEPARTMENT | Public Works - Wastewater |
| IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.) | | | |
| <i>Dept Initiative</i> | | | |
| DESCRIPTION (TO INCLUDE JUSTIFICATION) | | | |
| <p>Major Components are typically mechanical, laboratory or processing equipment replacements/upgrades necessary to continuing running the WWTP efficiently. The mechanical equipment within the wastewater division is used 24 hours a day - 7 days a week. This account is used for necessary replacements of these major components when they unexpectedly fail.</p> | | | |
| Per current Agreement, these projects would be funded 2/3 UNH and 1/3 Town. | | | |
| ESTIMATED COSTS: | PRELIMINARY STUDY, DESIGN AND ENGINEERING | \$ | - |
| | FINAL DESIGN AND ENGINEERING | \$ | - |
| | CONSTRUCTION ENGINEERING OVERSIGHT | \$ | - |
| | CONSTRUCTION COSTS | \$ | 50,000 |
| | CONTINGENCY | \$ | - |
| | TOTAL PROJECT COST | \$ | 50,000 |
| FINANCING | OPERATING BUDGET | \$ | 16,667 |
| | UNH - CASH | \$ | 33,333 |
| | BOND - TOWN PORTION | \$ | - |
| | UNH PORTION | \$ | - |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 50,000 |
| IF BONDED: | NUMBER OF YEARS | | N/A |
| | TOTAL PRINCIPAL | \$ | - |
| | TOTAL INTEREST | \$ | - |
| | TOTAL ESTIMATED COST | \$ | - |



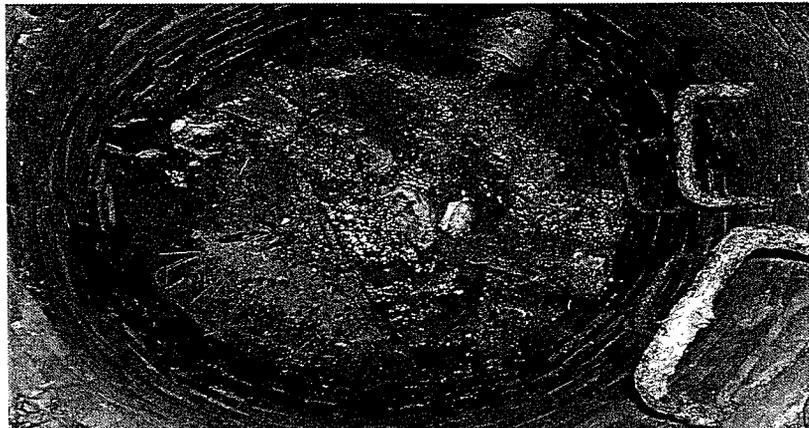
CAPITAL IMPROVEMENT PROGRAM

| | | | |
|--|---|---------------------|---------------------------|
| PROJECT YEAR | 2017 | PROJECT COST | \$30,000 |
| DESCRIPTION | Collection System Repair/ Upgrade (Town/UNH) | DEPARTMENT | Public Works - Wastewater |
| IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.) | | | |
| Dept Initiative | | | |
| DESCRIPTION (TO INCLUDE JUSTIFICATION) | | | |
| Repairs will be made to the Town/UNH shared wastewater collection system including line replacement and line repairs, engineering investigation, sewer manhole rehabilitation or replacement. This project also includes inflow and infiltration within the wastewater collection system. Inflow is the illegal connection of plumbing such as a sump pump into the Wastewater Collection System and infiltration is the seepage of groundwater or stormwater into the Wastewater Collection System. The amount of staff time spent on collection system maintenance will decrease as these problem areas are corrected. | | | |
| Per current Agreement, these projects would be funded 2/3 UNH and 1/3 Town. | | | |
| ESTIMATED COSTS: | PRELIMINARY STUDY, DESIGN AND ENGINEERING | \$ | - |
| | FINAL DESIGN AND ENGINEERING | \$ | - |
| | CONSTRUCTION ENGINEERING OVERSIGHT | \$ | - |
| | CONSTRUCTION COSTS | \$ | 30,000 |
| | CONTINGENCY | \$ | - |
| | TOTAL PROJECT COST | \$ | 30,000 |
| FINANCING | OPERATING BUDGET | \$ | 10,000 |
| | UNH - CASH | \$ | 20,000 |
| | BOND - TOWN PORTION | \$ | - |
| | UNH PORTION | \$ | - |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 30,000 |
| IF BONDED: | NUMBER OF YEARS | | N/A |
| | TOTAL PRINCIPAL | \$ | - |
| | TOTAL INTEREST | \$ | - |
| | TOTAL ESTIMATED COST | \$ | - |



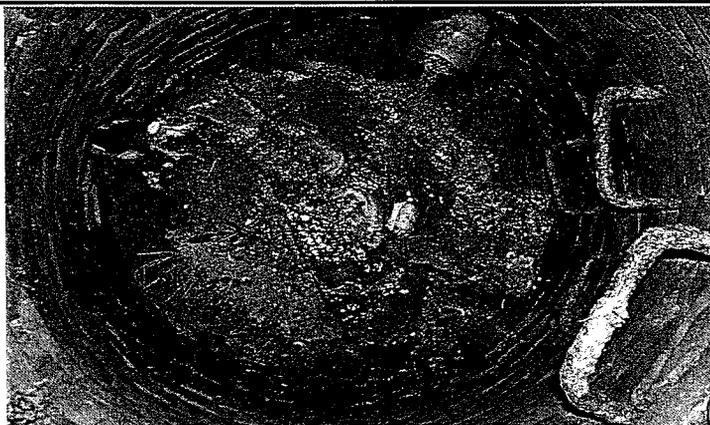
CAPITAL IMPROVEMENT PROGRAM

| | | | |
|---|---|---------------------|----------------------------------|
| PROJECT YEAR | 2017 | PROJECT COST | \$65,000 |
| DESCRIPTION | <i>Collection System Repair/ Upgrade (Town)</i> | DEPARTMENT | <i>Public Works - Wastewater</i> |
| IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.) | | | |
| <i>Dept Initiative</i> | | | |
| DESCRIPTION (TO INCLUDE JUSTIFICATION) | | | |
| <p>Repairs will be made to the Town's wastewater collection system including line replacement and line repairs, engineering investigation, sewer manhole rehabilitation or replacement. This project also includes inflow and infiltration within the wastewater collection system. Inflow is the illegal connection of plumbing such as a sump pump into the Wastewater Collection System and infiltration is the seepage of groundwater or stormwater into the Wastewater Collection System. The amount of staff time spent on collection system maintenance will decrease as these problem areas are corrected.</p> <p>Various manholes within the collection system need to be rehabilitated or replaced, including those on Faculty Road, Park Court, Madbury Road, Dennison Road and Hoitt Drive. Additionally, sewer tv'ing work will continue in order to prioritize future sewer line rehab projects.</p> | | | |
| Per current Agreement, this project will be funded 100% by the Town. | | | |
| ESTIMATED COSTS: | PRELIMINARY STUDY, DESIGN AND ENGINEERING | \$ | - |
| | FINAL DESIGN AND ENGINEERING | \$ | - |
| | CONSTRUCTION ENGINEERING OVERSIGHT | \$ | - |
| | CONSTRUCTION COSTS | \$ | 65,000 |
| | CONTINGENCY | \$ | - |
| | TOTAL PROJECT COST | \$ | 65,000 |
| FINANCING | OPERATING BUDGET | \$ | 65,000 |
| | UNH - CASH | \$ | - |
| | BOND - TOWN PORTION | \$ | - |
| | UNH PORTION | \$ | - |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 65,000 |
| IF BONDED: | NUMBER OF YEARS | | N/A |
| | TOTAL PRINCIPAL | \$ | - |
| | TOTAL INTEREST | \$ | - |
| | TOTAL ESTIMATED COST | \$ | - |



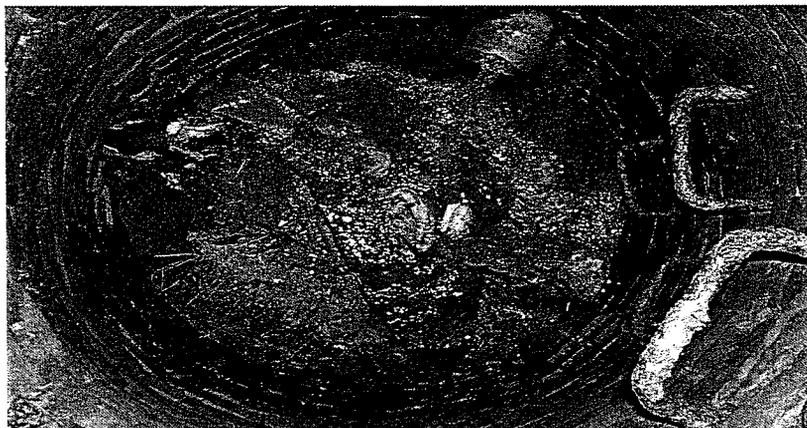
CAPITAL IMPROVEMENT PROGRAM

| | | | |
|--|---|---------------------|----------------------------------|
| PROJECT YEAR | 2017 | PROJECT COST | \$245,000 |
| DESCRIPTION | <i>Woodman Road Sewer Improvements</i> | DEPARTMENT | <i>Public Works - Wastewater</i> |
| IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.) | | | |
| <i>Dept Initiative</i> | | | |
| DESCRIPTION (TO INCLUDE JUSTIFICATION) | | | |
| <p>This project consists of the upgrade of approximately 1,700 lf of sewers on the north and south side of Woodman Road. The condition of the existing sewer in this area is largely unknown and video inspections of the sewer lines will be completed to determine the most suitable repair and/or rehabilitation technologies. Manhole repairs may be required for select locations and either replacement or rehabilitation (epoxy or cementitious liner) will be considered. Includes design contract (which as already been drafted) with Wright-Pierce to study, design and prepare bid package for construction. Construction costs are estimated and will be further refined during design.</p> | | | |
| Per current Agreement, this project will be funded 100% by the Town. | | | |
| ESTIMATED COSTS: | PRELIMINARY STUDY, DESIGN AND ENGINEERING | \$ | - |
| | FINAL DESIGN AND ENGINEERING | \$ | 30,000 |
| | CONSTRUCTION ENGINEERING OVERSIGHT | \$ | - |
| | CONSTRUCTION COSTS | \$ | 215,000 |
| | CONTINGENCY | \$ | - |
| | TOTAL PROJECT COST | \$ | 245,000 |
| FINANCING | OPERATING BUDGET | \$ | - |
| | UNH - CASH | \$ | - |
| | BOND - TOWN PORTION | \$ | 245,000 |
| | UNH PORTION | \$ | - |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 245,000 |
| IF BONDED: | NUMBER OF YEARS | | 10 |
| | TOTAL PRINCIPAL | \$ | 245,000 |
| | TOTAL INTEREST | \$ | 23,000 |
| | TOTAL ESTIMATED COST | \$ | 268,000 |



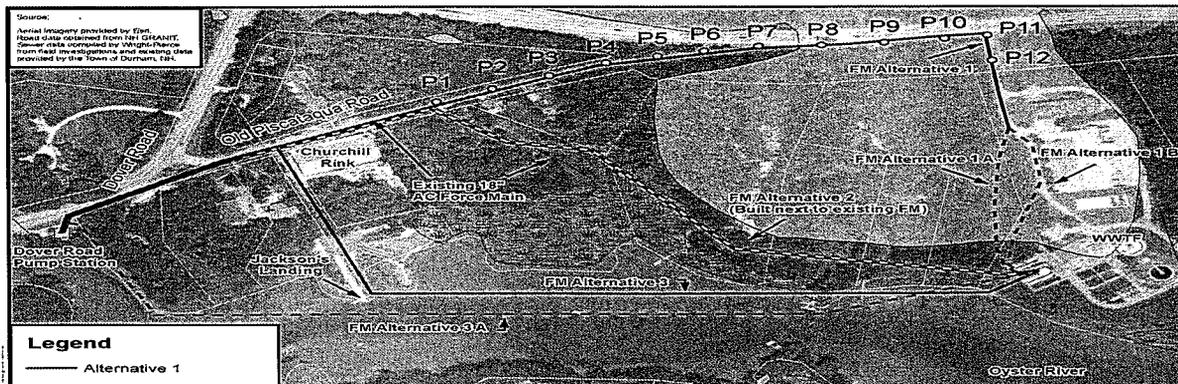
CAPITAL IMPROVEMENT PROGRAM

| | | | |
|--|---|---------------------|---------------------------|
| PROJECT YEAR | 2017 | PROJECT COST | \$30,000 |
| DESCRIPTION | Oyster River Road Pumping Station | DEPARTMENT | Public Works - Wastewater |
| IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.) | | | |
| <i>Dept Initiative</i> | | | |
| DESCRIPTION (TO INCLUDE JUSTIFICATION) | | | |
| Pump Station Maintenance including repaving access road and new metal roofing. | | | |
| Per current Agreement, this project will be funded 100% by the Town. | | | |
| ESTIMATED COSTS: | PRELIMINARY STUDY, DESIGN AND ENGINEERING | \$ | - |
| | FINAL DESIGN AND ENGINEERING | \$ | - |
| | CONSTRUCTION ENGINEERING OVERSIGHT | \$ | - |
| | CONSTRUCTION COSTS | \$ | 30,000 |
| | CONTINGENCY | \$ | - |
| | TOTAL PROJECT COST | \$ | 30,000 |
| FINANCING | OPERATING BUDGET | \$ | 30,000 |
| | UNH - CASH | \$ | - |
| | BOND - TOWN PORTION | \$ | - |
| | UNH PORTION | \$ | - |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 30,000 |
| IF BONDED: | NUMBER OF YEARS | | N/A |
| | TOTAL PRINCIPAL | \$ | - |
| | TOTAL INTEREST | \$ | - |
| | TOTAL ESTIMATED COST | \$ | - |



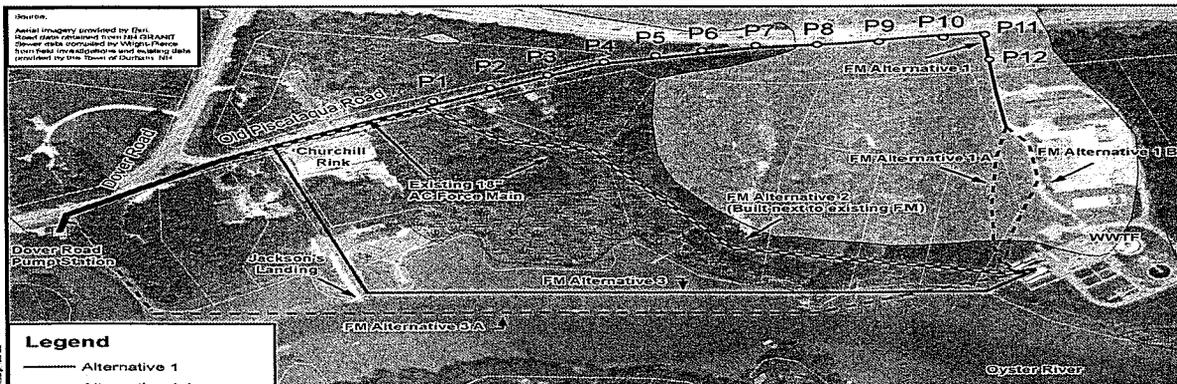
CAPITAL IMPROVEMENT PROGRAM

| | | | |
|---|---|---------------------|---------------------------|
| PROJECT YEAR | 2017 | PROJECT COST | \$252,000 |
| DESCRIPTION | 18" Force Main Replacement | DEPARTMENT | Public Works - Wastewater |
| IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.) | | | |
| Department Initiative | | | |
| DESCRIPTION (TO INCLUDE JUSTIFICATION) | | | |
| <p>This 18-inch diameter wastewater force main carries all of the Town's wastewater (up to 2.4 million gallons per day) under pressure from the Dover Road Wastewater Pump Station to Durham's Wastewater Treatment Plant. This pipe was constructed of asbestos cement in 1967 and is approaching the end of its useful life. An investigation in 2008 revealed signs of diminished pipe capacity. Asbestos cement piping is no longer used in the industry because of its tendency to deteriorate over time, which is particularly a problem with piping that is under pressure. Asbestos pipe is not smooth and creates friction which over time makes the pumping of wastewater more difficult. Alternatives for the force main alignment were examined in a study completed by Wright Pierce in 2013. The current preferred alignment is Alternative 3 which has the least environmental impacts, avoids easement conflicts and would provide for redundancy, utilizing the existing force main during construction. Alternative 3 would involve open cut construction from the Dover Road Pump Station to Jackson's Landing followed by directional drilling along the riverbank to an area near the WWTP headworks. Initial estimates for alternatives 1, 2, and 3 are \$3.1 million, \$2.1 million, and \$2.2 million respectively.</p> | | | |
| Per current Agreement, these projects would be funded 2/3 UNH and 1/3 Town. | | | |
| ESTIMATED COSTS: | PRELIMINARY STUDY, DESIGN AND ENGINEERING | \$ | 252,000 |
| | FINAL DESIGN AND ENGINEERING | \$ | - |
| | CONSTRUCTION ENGINEERING OVERSIGHT | \$ | - |
| | CONSTRUCTION COSTS | \$ | - |
| | CONTINGENCY | \$ | - |
| | TOTAL PROJECT COST | \$ | 252,000 |
| FINANCING | OPERATING BUDGET | \$ | - |
| | UNH - CASH | \$ | - |
| | BOND - TOWN PORTION | \$ | 84,000 |
| | UNH PORTION | \$ | 168,000 |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 252,000 |
| IF BONDED: | NUMBER OF YEARS | | 10 |
| | TOTAL PRINCIPAL | \$ | 252,000 |
| | TOTAL INTEREST | \$ | 24,000 |
| | TOTAL ESTIMATED COST | \$ | 276,000 |



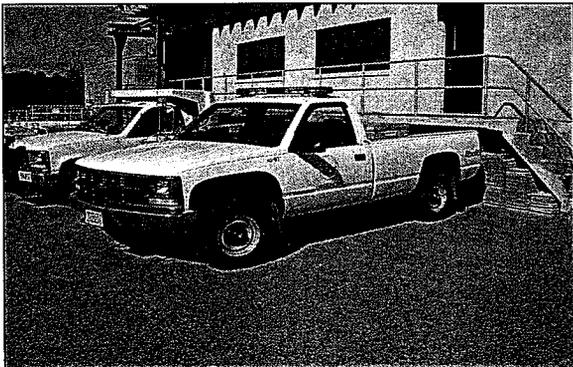
CAPITAL IMPROVEMENT PROGRAM

| | | | |
|---|---|---------------------|---------------------------|
| PROJECT YEAR | 2018 | PROJECT COST | \$2,187,000 |
| DESCRIPTION | 18" Force Main Replacement | DEPARTMENT | Public Works - Wastewater |
| IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.) | | | |
| Department Initiative | | | |
| DESCRIPTION (TO INCLUDE JUSTIFICATION) | | | |
| <p>This 18-inch diameter wastewater force main carries all of the Town's wastewater (up to 2.4 million gallons per day) under pressure from the Dover Road Wastewater Pump Station to Durham's Wastewater Treatment Plant. This pipe was constructed of asbestos cement in 1967 and is approaching the end of its useful life. An investigation in 2008 revealed signs of diminished pipe capacity. Asbestos cement piping is no longer used in the industry because of its tendency to deteriorate over time, which is particularly a problem with piping that is under pressure. Asbestos pipe is not smooth and creates friction which over time makes the pumping of wastewater more difficult. Alternatives for the force main alignment were examined in a study completed by Wright Pierce in 2013. The current preferred alignment is Alternative 3 which has the least environmental impacts, avoids easement conflicts and would provide for redundancy, utilizing the existing force main during construction. Alternative 3 would involve open cut construction from the Dover Road Pump Station to Jackson's Landing followed by directional drilling along the riverbank to an area near the WWTP headworks. Initial estimates for alternatives 1, 2, and 3 are \$3.1 million, \$2.1 million, and \$2.2 million respectively.</p> | | | |
| Per current Agreement, these projects would be funded 2/3 UNH and 1/3 Town. | | | |
| ESTIMATED COSTS: | PRELIMINARY STUDY, DESIGN AND ENGINEERING | \$ | - |
| | FINAL DESIGN AND ENGINEERING | \$ | - |
| | CONSTRUCTION ENGINEERING OVERSIGHT | \$ | 365,000 |
| | CONSTRUCTION COSTS | \$ | 1,301,000 |
| | CONTINGENCY | \$ | 521,000 |
| | TOTAL PROJECT COST | \$ | 2,187,000 |
| FINANCING | OPERATING BUDGET | \$ | - |
| | UNH - CASH | \$ | - |
| | BOND - TOWN PORTION | \$ | 729,000 |
| | UNH PORTION | \$ | 1,458,000 |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 2,187,000 |
| IF BONDED: | NUMBER OF YEARS | | 20 |
| | TOTAL PRINCIPAL | \$ | 2,187,000 |
| | TOTAL INTEREST | \$ | 568,500 |
| | TOTAL ESTIMATED COST | \$ | 2,755,500 |



CAPITAL IMPROVEMENTS PROGRAM

| | | | |
|--|---|---------------------|---------------------------|
| PROJECT YEAR | 2018 | VEHICLE COST | \$27,500 |
| DESCRIPTION | 3/4 Ton Pick-Up | DEPARTMENT | Public Works - Wastewater |
| DESCRIPTION (TO INCLUDE JUSTIFICATION): | | | |
| <p>The Wastewater Treatment Plant motor pool consists of two pick-up trucks which are utilized by five employees. The truck fleet is on a 10 -12 year replacement plan. According to this plan the 2007 ¾ Ton Pick-up Truck will be replaced in 2018. This Division is responsible for the maintenance of the Treatment Plant, Wastewater Collection System and five Pump Stations.</p> <p>No impact to other Departments, normal future maintenance costs (i.e. tires, battery, oil, filters). This division has downsized these vehicles over the past 20 years.</p> | | | |
| Per current Agreement, these projects would be funded 2/3 UNH and 1/3 Town. | | | |
| ESTIMATED COST | PURCHASE PRICE | \$ | 28,150 |
| | ACCESSORIES* | \$ | 850 |
| | LESS TRADE-IN** | \$ | <u>(1,500)</u> |
| | NET PURCHASE PRICE | \$ | 27,500 |
| | *Accessories include lighting, radios, striping, misc. equipment. | | |
| FINANCING | OPERATING BUDGET | \$ | 9,167 |
| | UNH - CASH | \$ | 18,333 |
| | BOND - TOWN PORTION | \$ | - |
| | UNH PORTION | \$ | - |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | <u>-</u> |
| | TOTAL FINANCING COSTS | \$ | 27,500 |
| IF BONDED: | NUMBER OF YEARS | N/A | |
| | TOTAL PRINCIPAL | \$ | - |
| | TOTAL INTEREST (EST'D) | \$ | <u>-</u> |
| | TOTAL PROJECT COST | \$ | - |



VEHICLE TO BE REPLACED (info as of August 2016)

YEAR/MAKE/MODEL: 2007 Chevy 2500HD

CONDITION: General Rusting

CURRENT MILEAGE/HOURS: 33,447 miles

MAJOR REPAIRS DONE: None to date

Will this vehicle be traded-in: YES

CAPITAL IMPROVEMENTS PROGRAM

| | | | |
|---------------------|-----------------|---------------------|---------------------------|
| PROJECT YEAR | 2019 | VEHICLE COST | \$27,500 |
| DESCRIPTION | 3/4 Ton Pick-Up | DEPARTMENT | Public Works - Wastewater |

DESCRIPTION (TO INCLUDE JUSTIFICATION):

The Wastewater Treatment Plant motor pool consists of two pick-up trucks which are utilized by five employees. The truck fleet is on a 10 -12 year replacement plan, according to this plan the 2008 ¾ Ton Pick-up Truck will be replaced in 2019. This Division is responsible for the maintenance of the Treatment Plant, Wastewater Collection System and five Pump Stations.

No impact to other Departments, normal future maintenance costs (i.e. tires, battery, oil, filters). This division has downsized these vehicles over the past 20 years.

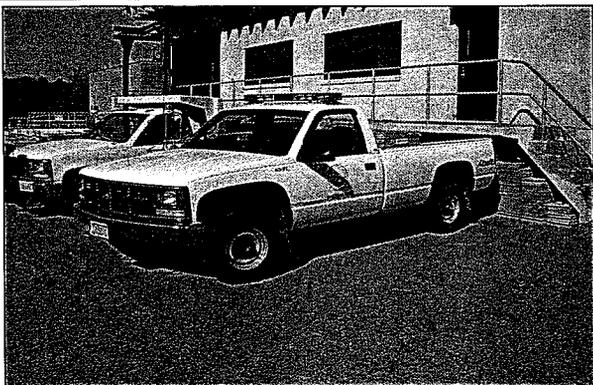
Per current Agreement, these projects would be funded 2/3 UNH and 1/3 Town.

| | | | |
|-----------------------|---------------------------|----|----------------|
| ESTIMATED COST | PURCHASE PRICE | \$ | 28,150 |
| | ACCESSORIES* | \$ | 850 |
| | LESS TRADE-IN** | \$ | <u>(1,500)</u> |
| | NET PURCHASE PRICE | \$ | 27,500 |

*Accessories include lighting, radios, striping, misc. equipment.

| | | | |
|------------------|--------------------------------|----|----------|
| FINANCING | OPERATING BUDGET | \$ | 9,167 |
| | UNH - CASH | \$ | 18,333 |
| | BOND - TOWN PORTION | \$ | - |
| | UNH PORTION | \$ | - |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | <u>-</u> |
| | TOTAL FINANCING COSTS | \$ | 27,500 |

| | | |
|-------------------|-------------------------------|------|
| IF BONDED: | NUMBER OF YEARS | N/A |
| | TOTAL PRINCIPAL | \$ - |
| | TOTAL INTEREST (EST'D) | \$ - |
| | TOTAL PROJECT COST | \$ - |



VEHICLE TO BE REPLACED (info as of August 2016)

YEAR/MAKE/MODEL: 2008 Ford F250 Super Duty

CONDITION: Moderate Rust

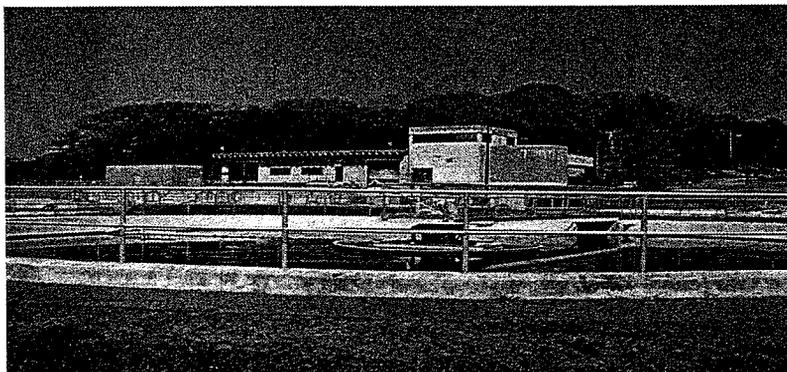
CURRENT MILEAGE/HOURS: 29,998 miles

MAJOR REPAIRS DONE: None to date

Will this vehicle be traded-in: YES

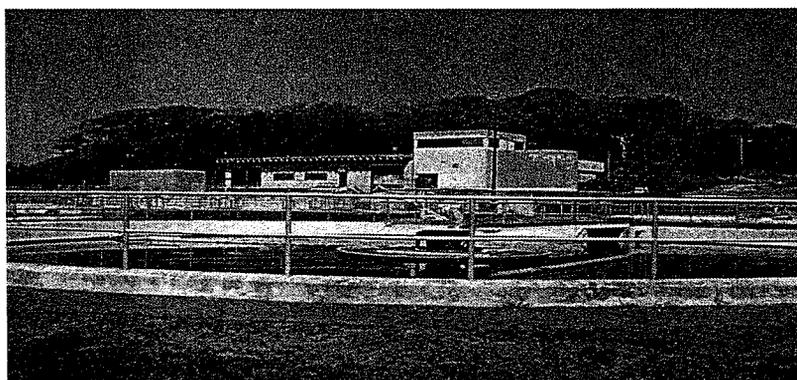
CAPITAL IMPROVEMENT PROGRAM

| | | | |
|---|---|---------------------|---------------------------|
| PROJECT YEAR | 2020 | PROJECT COST | \$450,000 |
| DESCRIPTION | WWTP Phase III | DEPARTMENT | Public Works - Wastewater |
| IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.) | | | |
| Mandated | | | |
| DESCRIPTION (TO INCLUDE JUSTIFICATION) | | | |
| <p>The NPDES discharge permit is a federal permit which allows the Town of Durham Wastewater Treatment Facility to safely discharge (treated) effluent into the Oyster River.</p> <p>NPDES Permit renewal was due in 2005. EPA should have issued a new draft and final NPDES permit in 2004 for the 2005-2010 time frame. As of the writing of this document the town has still not received a new NPDES Permit. Stricter limits on Copper, Nitrogen and Ammonia are expected. The Wastewater Facilities Plan update prepared by Wright-Pierce recommended upgrading the Treatment Plan to an enhanced biological nutrient removal process and carry out a pilot test to evaluate the best treatment options. This was completed in 2014 with the Sludge Dewatering and Four Stage Bardenpho Nutrient Removal Pilot Project. Results of the pilot are still being studied. The final phase of this project is the full conversion of the treatment process for enhanced nutrient removal based on the NPDES permit utilizing results of the pilot study with EPA. The Town is in serious discussion about combining our stormwater management permit, MS4 and this NPDES permit into one intergrated permit.</p> | | | |
| Per current Agreement, these projects would be funded 2/3 UNH and 1/3 Town. | | | |
| ESTIMATED COSTS: | PRELIMINARY STUDY, DESIGN AND ENGINEERING | \$ | 100,000 |
| | FINAL DESIGN AND ENGINEERING | \$ | 150,000 |
| | CONSTRUCTION ENGINEERING OVERSIGHT | \$ | - |
| | CONSTRUCTION COSTS | \$ | 200,000 |
| | CONTINGENCY | \$ | - |
| | TOTAL PROJECT COST | \$ | 450,000 |
| FINANCING | OPERATING BUDGET | \$ | - |
| | UNH - CASH | \$ | - |
| | BOND - TOWN PORTION | \$ | 150,000 |
| | UNH PORTION | \$ | 300,000 |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 450,000 |
| IF BONDED: | NUMBER OF YEARS | | 10 |
| | TOTAL PRINCIPAL | \$ | 450,000 |
| | TOTAL INTEREST | \$ | 43,100 |
| | TOTAL ESTIMATED COST | \$ | 493,100 |



CAPITAL IMPROVEMENT PROGRAM

| | | | |
|---|--|---------------------|---------------------------|
| PROJECT YEAR | 2021 | PROJECT COST | \$2,850,000 |
| DESCRIPTION | WWTP Phase III | DEPARTMENT | Public Works - Wastewater |
| IMPETUS FOR PROJECT (IE. MANDATED, COUNCIL GOAL, DEPT INITIATIVE, ETC.) | | | |
| Mandated | | | |
| DESCRIPTION (TO INCLUDE JUSTIFICATION) | | | |
| <p>The NPDES discharge permit is a federal permit which allows the Town of Durham Wastewater Treatment Facility to safely discharge (treated) effluent into the Oyster River.</p> <p>NPDES Permit renewal was due in 2005. EPA should have issued a new draft and final NPDES permit in 2004 for the 2005-2010 time frame. As of the writing of this document the town has still not received a new NPDES Permit. Stricter limits on Copper, Zinc, Nitrogen and Ammonia are expected. The Wastewater Facilities Plan update prepared by Wright-Pierce recommended upgrading the Treatment Plan to an enhanced biological nutrient removal process and carry out a pilot test to evaluate the best treatment options. This was completed in 2014 with the Sludge Dewatering and Four Stage Bardenpho Nutrient Removal Pilot Project. Results of the pilot are still being studied. The final phase of this project is the full conversion of the treatment process for enhanced nutrient removal based on the NPDES permit utilizing results of the pilot study.</p> <p>The Town is in serious discussion about combining our stormwater management permit, MS4 and this NPDES permit into one intergrated permit.</p> | | | |
| Per current Agreement, these projects would be funded 2/3 UNH and 1/3 Town. | | | |
| ESTIMATED COSTS: | PRELIMINARY STUDY, DESIGN AND ENGINEERING | \$ | - |
| | FINAL DESIGN AND ENGINEERING | \$ | 350,000 |
| | CONSTRUCTION ENGINEERING OVERSIGHT | \$ | - |
| | CONSTRUCTION COSTS | \$ | 2,500,000 |
| | CONTINGENCY | \$ | - |
| | TOTAL PROJECT COST | \$ | 2,850,000 |
| FINANCING | OPERATING BUDGET | \$ | - |
| | UNH - CASH | \$ | - |
| | BOND - TOWN PORTION | \$ | 950,000 |
| | UNH PORTION | \$ | 1,900,000 |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 2,850,000 |
| IF BONDED: | NUMBER OF YEARS | | 20 |
| | TOTAL PRINCIPAL | \$ | 2,850,000 |
| | TOTAL INTEREST | \$ | 744,300 |
| | TOTAL ESTIMATED COST | \$ | 3,594,300 |



CAPITAL IMPROVEMENT PROGRAM

| | | | |
|---------------------|----------------------------|---------------------|--|
| PROJECT YEAR | 2022 | PROJECT COST | \$26,500 |
| DESCRIPTION | <i>Backhoe Replacement</i> | DEPARTMENT | <i>Public Works- Operations, Water, WW</i> |

DESCRIPTION (TO INCLUDE JUSTIFICATION):

Replace the 2006 JCB 4 Wheel Drive Backhoe. This piece of equipment is scheduled for replacement in 2022. The 2006 JCB was on a 12 year replacement schedule, however with the purchase of the rubber tired excavator in 2013, we were able to push this out further due to the excavator picking up a good percentage of the jobs. The machine is an essential piece of equipment for all Public Works Divisions and programs and is used year round. FUNDING: 50% Operations (\$53,000), 25% Water (\$26,500), 25% Wastewater (\$26,500 of which is 2/3 is funded by UNH) will fund this purchase.

Per current Agreement, these projects would be funded 2/3 UNH and 1/3 Town.

| | | | |
|-----------------------|---------------------------|----|--------|
| ESTIMATED COST | PURCHASE PRICE | \$ | 26,500 |
| | ACCESSORIES* | \$ | - |
| | LESS TRADE-IN** | \$ | - |
| | NET PURCHASE PRICE | \$ | 26,500 |

*Accessories include lighting, radios, striping, misc. equipment.

| | | | |
|------------------|--------------------------------|----|--------|
| FINANCING | OPERATING BUDGET | \$ | 8,833 |
| | UNH - CASH | \$ | 17,667 |
| | BOND - TOWN PORTION | \$ | - |
| | UNH PORTION | \$ | - |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 26,500 |

| | | |
|-------------------|-------------------------------|------|
| IF BONDED: | NUMBER OF YEARS | N/A |
| | TOTAL PRINCIPAL | \$ - |
| | TOTAL INTEREST (EST'D) | \$ - |
| | TOTAL PROJECT COST | \$ - |



VEHICLE(S) TO BE REPLACED (info as of August 2016)

| | |
|-------------------------------|---|
| YEAR/MAKE/MODEL | 2006 |
| CONDITION | Good |
| CURRENT MILEAGE/HOURS: | 6,007 hours |
| MAJOR REPAIRS DONE | hydraulic hoses, replace hydraulic pump, replaced back hoe bucket, bucket pins, stabilizer pads |

Will this vehicle be traded-in or used for other purpose?
If other purpose, please specify:

Trade in

CAPITAL IMPROVEMENTS PROGRAM

| | | | |
|--|---|-----------------------|---------------------------|
| PROJECT YEAR | 2022 | EQUIPMENT COST | \$17,500 |
| DESCRIPTION | Commercial Lawnmower | DEPARTMENT | Public Works - Wastewater |
| DESCRIPTION (TO INCLUDE JUSTIFICATION): | | | |
| <p>Replacement of 2013 zero turning radius commercial lawn mower needed to maintain the five acre Wastewater Treatment site. The current mower will be 9 years old in 2022 and due to wear and tear and reduced performance needs to be replaced. Minor routine maintenance is estimated at \$300/year.</p> | | | |
| Per current Agreement, these projects would be funded 2/3 UNH and 1/3 Town. | | | |
| ESTIMATED COST | PURCHASE PRICE | \$ | 17,500 |
| | ACCESSORIES* | \$ | - |
| | LESS TRADE-IN** | \$ | - |
| | NET PURCHASE PRICE | \$ | 17,500 |
| | *Accessories include lighting, radios, striping, misc. equipment. | | |
| FINANCING | OPERATING BUDGET | \$ | 5,833 |
| | UNH - CASH | \$ | 11,667 |
| | BOND - TOWN PORTION | \$ | - |
| | UNH PORTION | \$ | - |
| | FEDERAL/STATE GRANT | \$ | - |
| | CAPITAL RESERVE ACCOUNT | \$ | - |
| | TOTAL FINANCING COSTS | \$ | 17,500 |
| IF BONDED: | NUMBER OF YEARS | N/A | |
| | TOTAL PRINCIPAL | \$ | - |
| | TOTAL INTEREST (EST'D) | \$ | - |
| | TOTAL PROJECT COST | \$ | - |



| | |
|--|-----------------|
| EQUIPMENT TO BE REPLACED (info as of August 2016) | |
| YEAR/MAKE/MODEL | 2013 John Deere |
| CONDITION | Good |
| CURRENT MILEAGE/HOURS | 182 Hours |
| MAJOR REPAIRS DONE | none |
| Will this vehicle be traded-in or used for other purpose? | |
| If other purpose, please specify: | |
| This mower will be handed down to the Parks Department as a spare mower. | |