| Stormwater | Separation | Program |
|------------|------------|----------------|
| | | |

160.4

65.60 **Priority Score:**

Rehabilitation **Project Type:** Growth Related?:

No

50 Estimated Useful Life (years):

Enter Replacement Cost & Year of Replacement Future Replacement Cost:

High **Priority Level:**

Public Works and Engineering **Department:**

Manager of Public Works Staff Contact:

Location/Coordinates: Various

Cash Flow Projection: 2024 2025 2026 Studies In House Engineering Design or Engineering Communication / Signage Construction / Contractor \$ 25,000 \$30,000 \$80,000 Materials Equipment/Misc Contingency Total \$ 30,000 \$ 25,000 \$ 80,000

Costs Incurred to 2023 Year End \$ ()

Impact on Operating Budget \$ 0

Total Project Budget: \$ 135,000

Schedule:

Construction Start Date: 06/01/2024

Substantial Completion or

purchase date: 12/31/2026

Funding Sources:

\$ 135.000 Waste Water Rates

Please Select Please Select Please Select Please Select

Capital Reserve \$0 **Description and Rationale:**

Inflow and infiltration reduction works (aka stormwater separation) are undertaken with the funds set aside for this program and can include separation of stormwater catchbasins, public or private, which contribute to the extraneous flows, roof leader and sump pump diversion, and other works selected on a priority basis to reduce inflow and infiltration.

Currently, this years budget is tentatively focused on two significant roofs; the Post Office, and the Roxy theatre.

16O.4.JPG

Attach Images:

Stormwater Separation Program 160.4

Justification for Matrix Values

Score 0 - 5

Justification / Rationale for Rating

Priority Score:

| People | How many people will be directly impacted by the project? | 3 | This would affect the local serviced area |
|----------------------------|--|---|--|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 4 | Combined Sewer Overflows are a consequence of stormwater connections |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 3 | This is an ongoing program in the 10 year plan |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 5 | Combined Sewer Overflows are a result of stormwater connections, but also very high flows in the system can result in surcharging of the system which results in sewer backups during very high-flow events. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 1 | No |
| Environment | Does the project address needs impacted by climate change? | 4 | Wet weather flows are now more frequent; this is a very relevant factor for this project |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | N/A |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 1 | None |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | N/A : Core Service |
| Public Input | Has the project been identified through public engagement? | 1 | None |

| | | | | | | | Year: 2024 |
|---------------------------------|--------------|------------|---------------|----------------------|-------------------|------------------|----------------------------|
| Collection System | Capita | I Reinv | estmer/ | t 210.1 | Prid | ority Score: | 67.60 |
| Project Type: | Rehabilitat | ion | | Priorit | ty Level: | <u>High</u> | |
| Growth Related?: | No | | | | tment: | Public Works | s and Engineering |
| Estimated Useful Life (years): | 50 | | | - | Contact: | Manager of | Public Works |
| Future Replacement Cost: | Enter Replac | ement Cost | & Year of Rep | | ion/Coordinates | : Various | |
| Cash Flow Projection: | 2024 | 2025 | 2026+ | Description and Rat | ionale: | | |
| Studies | | | | This project is to c | ontinue with the | e rehabilitation | of the sanitary sewer |
| In House Engineering | | | | | | | as well as manhole |
| Design or Engineering | | | | | | | ed through "cured in |
| Communication / Signage | | | | place pipe" (CIPP) | technology. Th | ne city is plann | ning to re-tender a 3 year |
| Construction / Contractor | \$ 350,000 | \$ 350,000 | \$ 1,050,000 | contract to continu | e to rehabilitate | sanitary sew | er and manholes. |
| Materials | | | | | | | |
| Equipment/Misc | | | | | | | |
| Contingency | | | | | | | |
| Total | \$ 350,000 | \$ 350,000 | \$ 1,050,000 | | | | |
| Costs Incurred to 2023 Year End | | | | | | | |

Total Project Budget: \$ 1,750,000

Impact on Operating Budget \$ 0

Schedule:

Construction Start Date: 06/01/0204

Substantial Completion or

purchase date: 12/31/2026

\$0

\$0

Funding Sources:

\$1,750,000 Waste Water Rates

Please Select Please Select Please Select Please Select

Capital Reserve \$0

Attach Images:

Collection System Capital Reinvestment 210.1

O.1 Priority Score: **67.60**

Justification for Matrix Values Score 0 - 5

Justification / Rationale for Rating

| People | How many people will be directly impacted by the project? | 5 | This would typically affect people in the project area which is usually one block at a time. But the program is City-wide |
|----------------------------|--|---|---|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 5 | Sewer bypasses from collapsed sewer have resulted. |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 3 | This has been identified in the 10 year plan, as part of a multi-year program. |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 4 | Sewer backups consume considerable public sector and private sector resources. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 1 | No |
| Environment | Does the project address needs impacted by climate change? | 3 | Wet weather flows are now more frequent; this is a somewhat relevant factor for this project |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | N/A |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 1 | None |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | N/A : Core Service |
| Public Input | Has the project been identified through public engagement? | 1 | None |

| Minor Pumping | Statio | on Re | hab | 2 |
|---------------------------------|--------------|-------------|---------------|-----------|
| Project Type: | Rehabilitat | | | |
| Growth Related?: | No | | | |
| Estimated Useful Life (years): | 50 | | | |
| Future Replacement Cost: | Enter Replac | cement Cost | & Year of Rep | olacement |
| Cash Flow Projection: | 2024 | 2025 | 2026 | Descri |
| Studies | | | | The 2 |
| In House Engineering | | | | need |
| Design or Engineering | | | | signifi |
| Communication / Signage | | | | pump |
| Construction / Contractor | \$ 200,000 | | | |
| Materials | | | | The a |
| Equipment/Misc | | | | does i |
| Contingency | | • | | |
| Total | \$ 200,000 | \$ 0 | \$0 | |
| Costs Incurred to 2023 Year End | | | | |
| Impact on Operating Budget | \$ 0 | \$ 0 | \$0 | |
| Total Project Budget: | \$ 200,000 | | | |
| Schedule: | | | | |
| Construction Start Date: | 06/01/202 | 4 | | |
| Substantial Completion or | 40/04/000 | 4 | | |
| purchase date: | 12/31/202 | 4 | | |
| Funding Sources: | | | | |
| Waste Water Rates | \$ 200,00 | 0 | | |
| Please Select | | | | |
| Please Select | | | | |
| Please Select | | | | F |
| Please Select | Ф.О | | | Opens |
| Capital Reserve | \$0 | | | Opens |

210.2

High **Priority Level:**

Public Works and Engineering

Staff Contact:

Department:

Manager of Public Works

Location/Coordinates: 27th St Sewage Pumping Station

61.00

Description and Rationale:

The 27th Street Sewage Pumping Station has a number of issues which need to be addressed through considerable rehabilitation: (1) Very significant electrical deficiencies and (2) physical condition of station (3) numps and associated mechanical.

Priority Score:

The attached photo shows the ideal pumping station configuration; it does not represent the existing station.

210.2.JPG

Attach Images:

Minor Pumping Station Rehab

210.2

Priority Score: 61.00

Justification for Matrix Values

Score 0 - 5

Justification / Rationale for Rating

| People | How many people will be directly impacted by the project? | 2 | This would typically affect people in the project area |
|----------------------------|--|---|--|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 5 | Sewer bypasses and backups from failed pumps |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 3 | This has been identified in the 10 year plan, as part of a multi-year program |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 4 | This station requires frequent callouts to pull the pump for maintenance; since there is only one pump, any issue must be addressed quickly and often on overtime. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 1 | No |
| Environment | Does the project address needs impacted by climate change? | 2 | Wet weather flows are now more frequent; this is only a somewhat relevant factor for this project |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | N/A |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 1 | None |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | N/A : Core Service |
| Public Input | Has the project been identified through public engagement? | 1 | None |

| | | | | Year: 2026 |
|--|--------------|----------------|--------------|--|
| Clarifier Mecha | nical N | <i>M</i> ainte | enance | 220.1 Priority Score: 60.00 |
| Project Type: | Rehabilitat | ion | | Priority Level: |
| Growth Related?: | No | | | Department: Public Works and Engineering |
| Estimated Useful Life (years): | 15 | | | Staff Contact: Manager of Public Works |
| Future Replacement Cost: | Enter Replac | ement Cost 8 | Year of Repl | UI . |
| Cash Flow Projection: | 2026 | 2027 | 2028 | Description and Rationale: |
| Studies In House Engineering Design or Engineering Communication / Signage | | | | Clarifier Mechanical Maintenance is required on an as-needed basis as wear and tear on the components progresses, but typically significant work is required every 3 to 5 years. |
| Construction / Contractor Materials Equipment/Misc Contingency | | | \$ 50,000 | The budget for 2024 is for purchasing and replacing specific worn items, and and to stock spare parts (chain, flights, brackets, wear shoes, wear strips). |
| Total | \$ 50,000 | \$ 0 | \$ 50,000 | |

Costs Incurred to 2025 Year End \$ 50,000

Impact on Operating Budget \$ 0

Total Project Budget: \$ 150,000

Schedule:

Construction Start Date: 05/01/2026

Substantial Completion or

purchase date: 09/30/2028

Funding Sources:

\$ 150,000 Waste Water Rates

Please Select Please Select Please Select Please Select

Capital Reserve \$0 **Attach Images:**

Opens the attachment panel. Double click files to view images attached. Maximum Size: 10MB

220.1.JPG

Clarifier Mechanical Maintenance 220.1

Justification for Matrix Values Score 0 - 5

Justification / Rationale for Rating

Priority Score:

| People | How many people will be directly impacted by the project? | 5 | This can affect the wastewater treatment train which affects the entire City. |
|----------------------------|--|---|---|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 3 | This poses a risk to proper sewage treatment. |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act. |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 4 | This has been identified in the 10 year plan. |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 3 | A failure of a clarifier would decrease capacity by 25%, for an exended time while repairs are completed, which would be a concern if concurrent with high flows. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 1 | No opportunity for partnership or grant funding. Funded through wastewater rates. |
| Environment | Does the project address needs impacted by climate change? | 3 | Wet weather flows are now more frequent. |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | The Project does not eliminate an existing public space. |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 1 | Asset has no aesthetic value (i.e. is underground, is not visible). |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | Project supports core service delivery. |
| Public Input | Has the project been identified through public engagement? | 0 | Has not been identified by the public. |

66.40

Public Works and Engineering

Manager of Public Works

| WWTP Instrum | entati | on/SC | CADA | 22 | 0.2 | | | |
|--|--------------------|-------------|---------------|------------------------|---|--|--|--|
| Project Type: Growth Related?: | Rehabilitat No | ion | | | Priority Level: Department: | | | |
| Estimated Useful Life (years): Future Replacement Cost: | 5 Enter Replace | cement Cost | & Year of Rep | olacement | Staff Contact: Location/Coor | | | |
| Cash Flow Projection: | 2024 | 2025 | 2026 | Description | and Rationale: | | | |
| Studies In House Engineering Design or Engineering Communication / Signage Construction / Contractor | | | | a short life The equip | nent that was in | | | |
| Materials Equipment/Misc Contingency | \$ 40,000 | | | Programm Nodes. Th | replacement: the Uninterr Programmable Logic Con Nodes. These are on bac carried over from 2022. | | | |
| Costs Incurred to 2023 Year End | \$ 40,000 | \$ 0 | \$0 | | totalling \$190,0 | | | |
| Impact on Operating Budget | \$0 | \$0 | \$0 | | ig may rany | | | |
| Total Project Budget: | \$ 40,000 | | | | | | | |
| Schedule: | | | | | | | | |
| Construction Start Date: | 05/01/2024 | 4 | | | | | | |
| Substantial Completion or purchase date: | 09/30/2024 | 4 | | | | | | |
| Funding Sources: Waste Water Rates Please Select Please Select Please Select Please Select | \$ 40,000 | | | Attac | h Images: | | | |
| Capital Reserve | \$ 0 | | | Opens the att | achment panel. Dou | | | |

Location/Coordinates: Wastewater Treatment Plant

eed to replace electrical and SCADA equipment which have an.

Priority Score:

High

ent that was installed in 2016 and 2017 which requires the Uninterrupted Power Supplies (UPS's; 18 units) for the ole Logic Controllers (PLC's), as well as some SCADA View se are on backorder due to supply chain issues and are from 2022.

otalling \$190,000 is in the ten year plan in 2024 and 2027. may vary. This is currently being evaluated.

220.2.JPG

Images:

WWTP Instrumentation/SCADA 220.2

Justification for Matrix Values

Score 0 - 5

Justification / Rationale for Rating

Priority Score:

| People | How many people will be directly impacted by the project? | 5 | This can affect the wastewater treatment train which affects the entire City |
|----------------------------|--|---|--|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 4 | PLC failure poses a considerable risk to proper sewage treatment |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 4 | These are identified on the 10 year plan |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 4 | PLC failure would result in the plant control system "Crashing" and sewage treatment could partially or entirely cease, (There are alarms in place to alert the operators of this outcome) |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 1 | No |
| Environment | Does the project address needs impacted by climate change? | 2 | Wet weather flows are now more frequent but this is not as relevant a factor for this project |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | N/A |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 1 | None |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | N/A: Core Service |
| Public Input | Has the project been identified through public engagement? | 1 | None |

| Process Mechanica | al I/C Bio | ogas E | quipmer | t 22 | 0.3 | Prio | rity Score: | 68.40 |
|---|--------------|--------------|----------------|---------------|------------------------------------|--------------|-------------------|---|
| Project Type: | Rehabilitat | ion | | _ | Priority Level: | | High | and Engineering |
| Growth Related?: | No | | | _ | Department: | | | and Engineering |
| Estimated Useful Life (years): | 5 | | | | Staff Contact: | | Manager of | Public Works |
| Future Replacement Cost: | Enter Replac | ement Cost & | & Year of Repl | acement | Location/Coord | inates: | Wastewater | Treatment Plant |
| Cash Flow Projection: | 2024 | 2025 | 2026 | Description | and Rationale: | | | |
| Studies In House Engineering Design or Engineering Communication / Signage Construction / Contractor Materials Equipment/Misc Contingency | \$ 40,000 | \$ 0 | \$ 0 | system sat | ety components. ces. Some was p | It is ne | ecessary to re | n some of the biogas eplace worn digester gas ut more is outstanding, |
| Costs Incurred to 2023 Year End | | | | | | | | |
| Impact on Operating Budget | \$0 | \$0 | \$ 0 | | | | | |
| Total Project Budget: | \$ 40,000 | | | | | | | |
| Schedule: | | | | | | | | |
| Construction Start Date: | 05/01/2024 | 4 | | | | | | |
| Substantial Completion or purchase date: | 09/30/2024 | 4 | | | | | | |
| Funding Sources: | ¢ 40 000 | | | | | | | |
| Waste Water Rates Please Select | \$ 40,000 | | | | | | | |
| Please Select Please Select | | | | Attac | h Images: | 220.3. | JPG | |
| Please Select | | | | | 9 | | | |
| Capital Reserve | \$ 0 | | | Opens the att | achment panel. Double | e click file | es to view images | attached. Maximum Size: 10M |

Process Mechanical I/C Biogas Equipment 220.3

Justification for Matrix Values Score 0 - 5

Justification / Rationale for Rating

Priority Score:

| People | How many people will be directly impacted by the project? | 5 | This can affect the wastewater treatment train which affects the entire City |
|----------------------------|--|---|--|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 5 | Components to be replaced include very significant pressure relief valves on the Digester. Failure could pose a significant risk. |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Technical Standards and Safety Act (TSSA) |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 4 | These are identified on the 10 year plan |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 4 | Failure of a portion of the biogas system could result in an unsafe condition, or improper operation of the boiler system and subsequent failure to heat the biosolids for digestion, and digestion failure. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 1 | No |
| Environment | Does the project address needs impacted by climate change? | 1 | Wet weather flows are now more frequent but this is not a relevant factor for this project |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | N/A |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 1 | None |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | N/A : Core Service |
| Public Input | Has the project been identified through public engagement? | 1 | None |

66.00

| Process Mecha | nical | (2026 |) | 2 |
|--|---------------|-------------|---------------|----------------|
| Project Type: | Rehabilitat | tion | | |
| Growth Related?: | No | | | |
| Estimated Useful Life (years): | 15 | | | |
| Future Replacement Cost: | Enter Replace | cement Cost | & Year of Rep | lacement |
| Cash Flow Projection: | 2026 | 2027 | 2028 | Descri |
| Studies | | | | The B |
| In House Engineering | | | | run at |
| Design or Engineering | | | | repair |
| Communication / Signage | Ф 220 000 | | | plant ' |
| Construction / Contractor Materials | \$ 220,000 | | | thus n |
| Equipment/Misc | | | | situati |
| Contingency | | | | purcha |
| Total | \$ 220,000 | \$ 0 | \$0 | The p |
| Costs Incurred to 2025 Year End | \$ 0 | | | One b Metha |
| Impact on Operating Budget | \$ 0 | | | more |
| Total Project Budget: | \$ 220,000 | ľ | | There such a |
| Schedule: | | | | Althouare we |
| Construction Start Date: | 04/01/2020 | 6 | | |
| Substantial Completion or purchase date: | 12/31/2020 | 6 | | |
| | | | | |
| Funding Sources: | Φ 000 00 | • | | |
| Waste Water Rates | \$ 220,00 | 0 | | |
| Please Select Please Select | | | | |
| Please Select | | | | A |
| Please Select | | | | |
| Capital Reserve | \$ 0 | | | Opens t |

220.3

Priority Level: High

Department: Public Works and Engineering

Priority Score:

Staff Contact: Manager of Public Works

Location/Coordinates: Wastewater Treatment Plant

Description and Rationale:

The BAF process requires 2 small and 1 large primary effluent pump to run at high flows. Therefore when a small pump is out of service for repairs, all the required flow cannot be pumped through the BAF and a plant "Bypass" will occur blending treated effluent with primary effluent, thus not meeting our ECA requirements. To remain compliant in this situation a spare small primary effluent pump would need to be purchased to be used when one is being repaired.

The plant has 2 boilers to heat the buildings and the primary digester. One boiler burns the methane gas retrieved from the primary digester. Methane is corrosive in comparison to natural gas which in turn requires more maintenance for boilers such as fire tube replacement.

There are hundreds of valves, actuators, solenoids, and safety devices such as pressure relief and bio-gas thermal valves at the plant. Although these are maintained through the maintenance program, they are wearing items that must be rebuilt and replaced as required.

Attach Images:

mech boilers.jpg; Mech BAF Pumps.jpg; mech air valves.jpg

| Process | Mechanical | (2026) |
|----------------|-------------|--------|
| 1 100000 | Modrialioai | (2020) |

220.3

Priority Score: 66.00

Justification for Matrix Values

Score 0 - 5

Justification / Rationale for Rating

| People | How many people will be directly impacted by the project? | 5 | This can affect the wastewater treatment train which affects the entire City. |
|----------------------------|--|---|---|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 5 | Components to be replaced include very significant pressure relief valves on the Digester. Failure could pose a significant risk. |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Technical Standards and Safety Act (TSSA). |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 3 | This has been identified in the 10 year plan. |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 4 | Failure of a portion of the biogas system could result in an unsafe condition, or improper operation of the boiler system and digestor failure. Air valve failure can result in failure to aerate the cell(s) which could result in secondary process failure. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 1 | No opportunity for partnership or grant funding. Funded through wastewater rates. |
| Environment | Does the project address needs impacted by climate change? | 1 | Wet weather flows are now more frequent but this is not an overly relevant factor for this project. |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | The Project does not eliminate an existing public space. |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 1 | Asset has no aesthetic value (i.e. is underground, is not visible). |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | Project supports core service delivery. |
| Public Input | Has the project been identified through public engagement? | 0 | Has not been identified by the public. |

| Interm | ediate | Rar | Screens |
|--------|--------|-----|---------|
| | Guiate | Dai | |

Project Type:

Growth Related?:

No

Estimated Useful Life (years): 25

Future Replacement Cost: Enter Replacement Cost & Year of Replacement

220.4

High

Priority Score: 64.40

Priority Level:

Department: Public Works and Engineering

Staff Contact: Manager of Public Works

Location/Coordinates: Wastewater Treatment Plant

| Cash Flow Projection: | 2024 | 2025 | 2026 |
|---------------------------|------------|------------|------|
| Studies | | | |
| In House Engineering | | | |
| Design or Engineering | | | |
| Communication / Signage | | | |
| Construction / Contractor | \$ 900,000 | \$ 900,000 | |
| Materials | | | |
| Equipment/Misc | | | |
| Contingency | | | |
| Total | \$ 900,000 | \$ 900,000 | \$0 |

Costs Incurred to 2023 Year End

Impact on Operating Budget \$ 0 \$ 0

Total Project Budget: \$1,800,000

Schedule:

Construction Start Date: 09/01/2024

Substantial Completion or

purchase date: 12/31/2025

Funding Sources:

Waste Water Rates \$ 1,800,000

Please Select
Please Select
Please Select
Please Select

Capital Reserve \$ 0

Description and Rationale:

The existing Bar Screens at the Wastewater Treatment Plant provide pre-treatment removal of coarse materials before grit removal and clarification. Materials removed include rags, sticks, and other debris, which would damage downstream components if not removed. The biosolids removed in the clarifiers are pumped to the digester for further treatment, and then to storage tanks. However, because initial screening does not remove 100% of the coarse material, over time, rags and other items build up in the digester and storage tanks and need to be removed in a cleanout, which is an expensive process; \$150,000 + for a storage tank and \$300,000 + for the digester.

In 2021 the digester cleanout which was undertaken confirmed that excess materials are passing through the screening process, affecting the digestion process, and impacting cleanout costs

New Intermediate fine screening equipment, located between the grit building and the clarifiers, would mitigate the following risks:

- a-The decreased frequency of digestor and storage tank cleanouts, which has an estimable monetary effect.
- b-The impacts the trash has had on our mechanical equipment, like pumps, drive sprockets, motors, drive chain, etc.
- c-The staff time required to deal with breakdowns in b above.
- d-The risk of digester failure due to trash content preventing recirculation (which had almost happened on previous occasions)
- e-The risk of rejection by one or more farmers, of our material.
- f-Rejection of material by Lystech, who receives our material during a cleanout,
- g-The risk to our BAF media, which would cost approximately \$1M.

220.4.JPG

Attach Images:

Priority Score: 64.40

Justification for Matrix Values

Score 0 - 5

Justification / Rationale for Rating

| People | How many people will be directly impacted by the project? | 5 | This can affect the wastewater treatment train which affects the entire City |
|----------------------------|--|---|---|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 3 | Failure of the bar screen system can have a significant environmental and health ans safety impact if treatment failures result |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act, Nutrient Management Act |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 4 | These are identified on the 10 year plan |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 4 | Failure of the bar screen system poses a risk to both biological processes at the plant; digestion, and the BAF. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 1 | N/A |
| Environment | Does the project address needs impacted by climate change? | 3 | Wet weather flows are now more frequent; this is a relevant factor for this project since higher flows carry a higher debris load |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | N/A |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 1 | None |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | N/A : Core Service |
| Public Input | Has the project been identified through public engagement? | 1 | None |

73.90

| Process Electric | cal (20 | 026) | | 2 |
|--|-------------|-------------|---------------|-----------|
| Project Type: | Rehabilitat | tion | | |
| Growth Related?: | No | | | _ |
| Estimated Useful Life (years): | 15 | | | _ |
| Future Replacement Cost: | | cement Cost | & Year of Rep | olacement |
| Cash Flow Projection: | 2026 | 2027 | 2028 | Descri |
| Studies | | | | The se |
| In House Engineering | | | | replac |
| Design or Engineering | | | | |
| Communication / Signage | | | | Other |
| Construction / Contractor | | | | spare |
| Materials | \$ 45,000 | | | |
| Equipment/Misc Contingency | | | | |
| Total | | \$ 0 | \$0 | |
| Costs Incurred to 2025 Year End | | | | |
| Impact on Operating Budget | \$ 0 | | | |
| Total Project Budget: | \$ 45,000 | | | |
| Schedule: | | | | |
| Construction Start Date: | 01/01/202 | 6 | | |
| Substantial Completion or purchase date: | 12/31/202 | 6 | | |
| Funding Sources: | | | | |
| Waste Water Rates | \$ 45,000 | | | |
| Please Select | | | | |
| Please Select | | | | |
| Please Select | | | | P |
| Please Select | • | | | |
| Capital Reserve | \$ 0 | | | Opens |

Priority Score:

Priority Level: Very High

Department: Public Works and Engineering

Staff Contact: Manager of Public Works

Location/Coordinates: Wastewater Treatment Plant

Description and Rationale:

The service life of the BAF Blower VFD's will be near their end and replacements will need to be purchased and installed.

Other aging electrical equipment will need assessed and replaced, or spare parts purchased, as required.

Elect Blower VFDs.jpg

Attach Images:

230.1

Priority Score: 73.90

| | , | | |
|----------------------------|--|---|---|
| Justification for N | latrix Values | S | core 0 - 5 Justification / Rationale for Rating |
| People | How many people will be directly impacted by the project? | 5 | BAF Blower failure would cause a failure of the WWTP secondary process and thereby affects the entire City. |
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 5 | If process failure led to contamination of the Bay, this could be characterized as a public health and safety risk. |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 3 | The work is identified on the 10-year plan |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 5 | The blower and BAF cell aeration system is necessary for secondary plant performance. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 2 | Reserves |
| Environment | Does the project address needs impacted by climate change? | 2 | Necessary work is required to ensure uninterrupted wastewater treatment. |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | No public spaces adversely impacted |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 2 | No adverse impact on aesthetic value |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | N/A : Core Service |
| Public Input | Has the project been identified through public engagement? | 1 | None |

| Storage Tank B | Biosoli | ds Cle | eanout | 230.2 Priority Score: 69.30 |
|---|---------------------------------|--------|----------------|---|
| Project Type: Growth Related?: Estimated Useful Life (years): Future Replacement Cost: | Rehabilitat No 50 Enter Replace | | & Year of Repl | Priority Level: Department: Staff Contact: Location/Coordinates: High Public Works and Engineering Manager of Public Works Wastewater Treatment Plant |
| Cash Flow Projection: | 2024 | 2025 | 2026 | Description and Rationale: |
| Studies In House Engineering Design or Engineering Communication / Signage Construction / Contractor Materials Equipment/Misc Contingency Total | | \$ 0 | \$ 0 | The biosolids storage tank (pictured) at the Wastewater Treatment Plant receives digested biosolids after treatment, and stores them for seasonal land application. In time the tank accumulates sediment and debris and requires a cleaning for proper operation; especially mixing and pumping. At this time it is expected that by 2024 this will be required again. |
| Costs Incurred to 2023 Year End | | | | |
| Impact on Operating Budget | \$ 0 | \$ 0 | \$ 0 | |
| Total Project Budget: | \$ 150,000 | | | |
| Schedule: | | | | |
| Construction Start Date: Substantial Completion or purchase date: | | | | |
| Funding Sources: Waste Water Rates Please Select Please Select Please Select Please Select Capital Reserve | \$ 150,000 \$ 0 | 0 | | 23O.2.JPG Attach Images: Opens the attachment panel. Double click files to view images attached. Maximum Size: 10MB |

Storage Tank Biosolids Cleanout 230.2

Justification for Matrix Values Score 0 - 5

Justification / Rationale for Rating

Priority Score:

| People | How many people will be directly impacted by the project? | 5 | This is the biosolids storage for the entire City |
|----------------------------|--|---|--|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 5 | Storage tank mixing or pumping failure could create adverse reactions in the tank, which could create dangerous and oderous gases. |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 3 | This is a recurring requirement for asset maintenance |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 4 | This is a necessary regular activity in order to allow proper operation of the biosolids treatment train. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 2 | Wastewater Rates |
| Environment | Does the project address needs impacted by climate change? | 1 | Increased flows do not necessarily translate to increased biosolids production. |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | No public spaces adversely impacted |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 3 | Prevent a possible severe odour problem. |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | N/A : Core Service |
| Public Input | Has the project been identified through public engagement? | 0 | None |

| WWTP Site Building | HVAC a | and Roc | of Repai | rs 7 |
|---|-------------|--------------|---------------|-------------------|
| | Rehabilitat | | • | |
| Project Type: Growth Related?: | No | 1011 | | |
| | 50 | | | _ |
| Estimated Useful Life (years): Future Replacement Cost: | | ement Cost & | & Year of Rep | olacement |
| Cash Flow Projection: | 2024 | 2025 | 2026 | Descri |
| Studies | | | | In 202 |
| In House Engineering | | | | under |
| Design or Engineering | | | | the ro |
| Communication / Signage | \$ 40E 000 | \$ 20,000 | ¢ 50 000 | |
| Construction / Contractor Materials | | \$ 20,000 | \$ 50,000 | It was |
| Equipment/Misc | | | | the ga |
| Contingency | | | | to und |
| Total | \$ 105,000 | \$ 20,000 | \$ 50,000 | |
| Costs Incurred to 2023 Year End | | | | In 202 require |
| Impact on Operating Budget | \$ 0 | \$0 | \$ 0 | |
| Total Project Budget: | \$ 175,000 | | | |
| Schedule: | | | | |
| Construction Start Date: | 05/31/2024 | 4 | | |
| Substantial Completion or | | 2 | | |
| purchase date: | 09/01/2020 | 0 | | |
| Funding Sources: | | | | |
| Waste Water Rates | \$ 175,00 | 0 | | |
| Please Select | | | | |
| Please Select | | | | ^ |
| Please Select | | | | |
| Please Select Capital Reserve | \$ 0 | | | Opens t |
| Capital Nosci vo | Ψυ | | | 1 - 1 - 1 - 1 |

230.3

....

62.90

Priority Level: High

Department: Public Works and Engineering

Priority Score:

Staff Contact:

Manager of Public Works

Location/Coordinates: Wastewater Treatment Plant

Description and Rationale:

In 2020 a facility asset assessment for building-related items was undertaken by the Facilities Manager, and included an assessment of the roofs at the Wastewater Treatment Plant.

It was identified that the locations with the greatest roofing needs were the gas room roof, and the old bar screen building roof, shown on the attached pictures. As part of a rehabilitation schedule, it was proposed to undertake that work in 2024.

In 2023, minor repairs to the West Side Pumping Station roof were required.

230.3.JPG

Attach Images:

WWTP Site Building HVAC and Roof Repairs 230.3

Justification for Matrix Values Score 0 - 5

Justification / Rationale for Rating

Priority Score:

| People | How many people will be directly impacted by the project? | 5 | This is the biosolids storage for the entire City |
|----------------------------|--|---|--|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 4 | A roof leak could create a health and safety risk to staff, especially if electrical equipment were affected |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 3 | This is a recurring requirement for asset maintenance |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 3 | Roof leakage can damage equipment and disrupt operations |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 2 | Wastewater Rates |
| Environment | Does the project address needs impacted by climate change? | 2 | Increased rainfall |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | No public spaces adversely impacted |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 2 | Existing roofs aesthetically displeasing but relatively minor issue here. |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | N/A : Core Service |
| Public Input | Has the project been identified through public engagement? | 0 | None |

| CLI Approval Requirements | 230.6 |
|---------------------------|-------|
|---------------------------|-------|

52.60 Priority Score:

Rehabilitation Project Type: Growth Related?:

No

50 Estimated Useful Life (years):

Enter Replacement Cost & Year of Replacement Future Replacement Cost:

High **Priority Level:**

Public Works and Engineering **Department:**

Staff Contact:

Manager of Public Works

Location/Coordinates: N/A

| Cash Flow Projection: | 2025 | 2026 | 2027 |
|---------------------------|-----------|------|-----------|
| Studies | \$ 20,000 | | \$ 40,000 |
| In House Engineering | | | |
| Design or Engineering | | | |
| Communication / Signage | | | |
| Construction / Contractor | | | |
| Materials | | | |
| Equipment/Misc | | | |
| Contingency | | | |
| Total | \$ 20.000 | \$ 0 | \$ 40,000 |

Costs Incurred to 2024 Year End \$ 0

Impact on Operating Budget \$ 0 \$0 \$0

Total Project Budget: \$60,000

Schedule:

Construction Start Date: 06/01/2025

Substantial Completion or

purchase date: 12/31/2027

Funding Sources:

Waste Water Rates

\$ 60.000

Please Select Please Select Please Select Please Select

Capital Reserve \$0 **Description and Rationale:**

In December 2022 the Ministry of Environment issued the City its first Consolidated Environmental Compliance Approval documents for both the Sanitary Sewage Collection System and the Storm Sewer system.

There are many implications for the system operations, maintenance, approvals, and capital planning. These were summarized in a report to the Operations Committee in March 2023.

With respect to the Sanitary requirements, there are various reports and studies required by the CLI-ECA at specific times in 2023, 2025, and 2027.

230.6.JPG

Attach Images:

| CLI A | pproval | Requirements |
|--------------|---------|--------------|
|--------------|---------|--------------|

230.6

Priority Score: 52.60

Justification for Matrix Values

Score 0 - 5

Justification / Rationale for Rating

| People | How many people will be directly impacted by the project? | 5 | The monitoring, reporting, maintenance, and capital requirements will affect the entire City. |
|----------------------------|--|---|---|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 3 | This is intended to enhance protection of the public health and safety. |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Environmental Protection Act. These are requirements of the CLI-ECA. |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 2 | This will require some assessments and possibly enhancements to current infrastructure. |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 2 | Regulatory requirement with operational impacts. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 1 | No opportunity for partnership or grant funding. Funded through wastewater rates. |
| Environment | Does the project address needs impacted by climate change? | 4 | Relevant factor for this project since the CSO's can be associated with climate change. |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | The Project does not eliminate an existing public space. |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 1 | Asset has no aesthetic value (i.e. is underground, is not visible). |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | Project supports core service delivery. |
| Public Input | Has the project been identified through public engagement? | 0 | Has not been identified by the public. |

| Digestor Bio-So | olids C | Cleand | out | 2 |
|---------------------------------|------------------|-------------|---------------|-----------------|
| Project Type: | Maintenan | ce | | |
| Growth Related?: | No | | | _ |
| Estimated Useful Life (years): | 5 | | | _ |
| Future Replacement Cost: | Enter Replac | cement Cost | & Year of Rep | olacement |
| Cash Flow Projection: | 2025 | 2026 | 2027 | Descri |
| Studies | | | | The di |
| In House Engineering | | | | biosol |
| Design or Engineering | | | | treatm |
| Communication / Signage | | | | storag |
| Construction / Contractor | | | | |
| Materials | # 200 200 | | | Appro |
| Equipment/Misc | \$ 300,000 | | | be cle |
| Contingency Total | \$ 300,000 | \$ 0 | \$0 | biosol begin |
| Costs Incurred to 2024 Year End | | ΨΟ | ψ σ | Curre |
| Impact on Operating Budget | \$ 0 | | | |
| Total Project Budget: | \$ 300,000 | | | |
| Schedule: | | | | |
| Construction Start Date: | 07/01/202 | 5 | | |
| Substantial Completion or | | | | |
| purchase date: | 08/31/202 | 5 | | |
| Funding Sources: | | | | |
| Waste Water Rates | \$ 300,00 | 0 | | |
| Please Select | | | | |
| Please Select | | | | |
| Please Select | | | | |
| Please Select | Φ.ο. | | | Onors |
| Capital Reserve | \$ 0 | | | Opens t |

240.3 Priority Score: 66.00

Priority Level: High

Department: Public Works and Engineering

Staff Contact: Manager of Public Works

Location/Coordinates: Wastewater Treatment Plant

Description and Rationale:

The digestor, with a capacity of about 2000 cubic metres receives the biosolids from the clarifiers at the WWTP, and provides additional treatment, and produces biogas, prior to being stored on site in the two storage tanks, then land applied.

Approximately every five years deletrious materials in the digestor must be cleaned out to allow for proper tank operation, especially the biosolids pumps and mixing system. Otherwise rags and other materials begin to clog those components, which could result in digestor failure.

Currently such clogging events are accelerating in frequency.

Attach Images:

| Digestor | Bio-Solids | Cleanout |
|-----------------|-------------------|----------|
|-----------------|-------------------|----------|

240.3

Priority Score: 66.00

Justification for Matrix Values

Score 0 - 5

Justification / Rationale for Rating

| People | How many people will be directly impacted by the project? | 5 | This can affect the wastewater treatment train which affects the entire City. |
|----------------------------|--|---|--|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 3 | Failure of the digestor can have a significant environmental and health and safety impact. |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act, Nutrient Management Act. |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 3 | This has been identified in the 10 year plan. |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 5 | Failure of the digestor can mean scheduling an emergency cleanout, at significant expense, and trucking all biosolids to Lystech for treatment while the digester is down, also a significant expense. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 1 | No opportunity for partnership or grant funding. Funded through wastewater rates. |
| Environment | Does the project address needs impacted by climate change? | 3 | Wet weather flows are now more frequent; this is a relevant factor for this project since higher flows carry a higher debris load. |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | No opportunity for partnership or grant funding. |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 1 | Asset has no aesthetic value (i.e. is underground, is not visible). |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | Project supports core service delivery. |
| Public Input | Has the project been identified through public engagement? | 0 | Has not been identified by the public. |

| | | | | Year: 2025 |
|--|--------------------|-------------|---------------|---|
| Sewer Video In | specti | ions | | 250.1 Priority Score: 61.40 |
| Project Type: | Rehabilitat | tion | | Priority Level: |
| Growth Related?: | No | | | Department: Public Works and Engineering |
| Estimated Useful Life (years): | 50 | | | Staff Contact: Manager of Public Works |
| Future Replacement Cost: | - | cement Cost | & Year of Rep | |
| Cash Flow Projection: | 2025 | 2026 | 2027 | Description and Rationale: |
| Studies | ; | | | In 2013/14 ,the majority of the wastewater collection system was TV |
| In House Engineering | | | | inspected. This information helped guide rehabilitation efforts since that |
| Design or Engineering | | | | time. Some annual TV inspection has been done on an ad-hoc basis |
| Communication / Signage | | | | yearly, but more of the system should be inspected to ensure structural |
| Construction / Contractor | r \$ 60,000 | | \$ 60,000 | integrity and to guide future rehabilitation work. |
| Materials | ; | | | |
| Equipment/Misc | | | | Detailed and current condition information facilitates the following: |
| Contingency | | | | |
| Total | l \$60,000 | \$ 0 | \$ 60,000 | -Ensuring rehab/replacement monies are spent in the most efficient way |
| Costs Incurred to 2024 Year End | \$ 0 | | | possible by guiding prioritization of projects, and selection of rehabilitation strategy. |
| Impact on Operating Budge | t \$0 | \$ 0 | \$ 0 | -uncovers sources of extraneous flow which exacerbates potential for |
| Total Project Budget: | \$ 120,000 | | | sewage surcharge, backups and overflows and taxes the treatment system. |
| Schedule: | | | | |
| Construction Start Date | : <u>06/01/202</u> | 5 | | |
| Substantial Completion o purchase date | r . 12/31/202 | 7 | | |

\$ 120,000

\$0

Funding Sources:

Waste Water Rates Please Select

Please Select

Please Select Please Select

Capital Reserve

25O.1.JPG

Attach Images:

250.1

Priority Score: 61.40

| Justification for M | latrix Values | S | core 0 - 5 Justification / Rationale for Rating |
|----------------------------|--|---|---|
| People | How many people will be directly impacted by the project? | 4 | The TV Inspection area will be a significant portion of the City. |
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 3 | This is intended to enhance protection of the public health and safety by ensuring poor condition assets are monitored and/or replaced,ultimately reducing occurrences of sewage blockages and overflows. |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Environmental Protection Act. Will ensure environmental approval compliance from MECP. |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 4 | This work will guide future replacement and rehabilitation, by providing detailed condition data for asset management purposes. |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 4 | Operational Improvements have been realized via system rehab, ie manhole benching. By targeting asset rehabilitation on areas with high inflow and infiltration, system capacity and performance can be improved. |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 1 | No opportunity for partnership or grant funding. Funded through wastewater rates. |
| Environment | Does the project address needs impacted by climate change? | 2 | Relevant factor for this project since flows can be associated with climate change, and reducing I/I will render the infrastructure more resilient to climate change-induced storm and snowmelt events. |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | The Project does not eliminate an existing public space. |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 1 | Asset has no aesthetic value (i.e. is underground, is not visible). |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | Project supports core service delivery. |
| Public Input | Has the project been identified through public engagement? | 0 | Has not been identified by the public. |

73.30

| Process Structu | ural Es | sp Cla | rifiers | 2 |
|--|------------------|-------------|----------------|----------|
| Project Type: | Rehabilitat | tion | | |
| Growth Related?: | No | | | |
| Estimated Useful Life (years): | 50 | | | |
| Future Replacement Cost: | | cement Cost | & Year of Repl | acement |
| Cash Flow Projection: | 2026 | 2027 | 2028 | Descri |
| Studies | | | | Clarific |
| In House Engineering | | | | has be |
| Design or Engineering | | | | |
| Communication / Signage | \$450,000 | | | Reme |
| Construction / Contractor Materials | \$ 150,000 | | | railing |
| Equipment/Misc | | | | |
| Contingency | | | | |
| Total | \$ 150,000 | \$ 0 | \$ 0 | |
| Costs Incurred to 2025 Year End | \$0 | | | |
| Impact on Operating Budget | \$ 0 | | | |
| Total Project Budget: | \$ 150,000 | | | |
| Schedule: | | | | |
| Construction Start Date: | 04/01/202 | 6 | | |
| Substantial Completion or | | | | |
| purchase date: | 11/30/202 | 6 | | |
| Funding Sources: | | | | |
| Waste Water Rates | \$ 150,00 | 0 | | |
| Please Select | | | | |
| Please Select | | | | |
| Please Select | | | | |
| Please Select Capital Reserve | \$ 0 | | | Opens t |
| 25,7.10171000110 | Ψ - | | | |

260.1

Priority Level: Very High

Department: Public Works and Engineering

Priority Score:

Staff Contact: Manager of Public Works

Location/Coordinates: Wastewater Treatment Plant

Description and Rationale:

Clarifiers 1&2 were constructed in 1962, and 3&4 in 1976. Little work has been done in the past to maintain these structures.

Remediation is required for concrete, expansion joints and safety railings.

Struct1.jpg; struct2.jpg; strcut3.jpg

Attach Images:

Process Structural Esp Clarifiers 260.1

Justification for Matrix Values

Score 0 - 5

Justification / Rationale for Rating

Priority Score:

| People | How many people will be directly impacted by the project? | 5 | This can affect the wastewater treatment train which affects the entire City |
|----------------------------|--|---|--|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 4 | Structural issues with the hand railings could pose significant risk for staff |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 4 | These are identified on the 10 year plan |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 5 | Clarifier Failure would jeopardize the entire treatment process |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 2 | Reserves |
| Environment | Does the project address needs impacted by climate change? | 2 | Necessary work is required to ensure uninterrupted wastewater treatment. |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | No public spaces adversely impacted |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 2 | No adverse impact on aesthetic value |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | N/A : Core Service |
| Public Input | Has the project been identified through public engagement? | 1 | None |

| Sanitary Sewer | Track | ced Ca | amera | 260.2 Priority Score: 59.30 |
|--|-------------------|--------------|---------------|--|
| Project Type: | New Asset | | | Priority Level: Papartment: High Public Works and Engineering |
| Growth Related?: | 20 | | | Management Dublic Words |
| Estimated Useful Life (years): Future Replacement Cost: | • | ement Cost & | & Year of Rep | <u> </u> |
| Cash Flow Projection: | 2026 | 2027 | 2028 | Description and Rationale: |
| Studies In House Engineering Design or Engineering Communication / Signage Construction / Contractor Materials | | | | Small sanitary sewer tracked cameras are becoming more economical and their capabilities continue to increase. Historically when sewer issues require troubleshooting, the operators retain a third party to bring in a tracked camera. |
| Equipment/Misc Contingency Total | , | \$ 0 | \$ 0 | (The City has a sewer camera but it is a camera with a push cable, only suitable for laterals and very short main inspections.) |
| Costs Incurred to 2025 Year End | \$0 | | | Having this capacity in house would decrease the third party costs, and improve the ability to immediately troubleshoot issues such as sewer backups. |
| Impact on Operating Budget | t \$ 0 | | | Баскирз. |
| Total Project Budget: | \$ 60,000 | | | |
| Schedule: | | | | |
| Construction Start Date | : 04/01/2026 | 6 | | |
| Substantial Completion or purchase date | r : 11/30/2026 | 6 | | |
| Funding Sources: Waste Water Rates Please Select Please Select Please Select Please Select | \$ 60,000 | | | deep trekker.jpg; deep trekker 2.JPG Attach Images: |
| Capital Reserve | \$ 0 | | | Opens the attachment panel. Double click files to view images attached. Maximum Size: 10Ml |

Sanitary Sewer Tracked Camera 260.2

Justification for Matrix Values Score 0 - 5

Justification / Rationale for Rating

Priority Score:

| People | How many people will be directly impacted by the project? | 4 | Sewer backups can adversely affect one or more households at a time. |
|----------------------------|--|---|--|
| Health and Safety | What is the risk to the health and safety of the public or Staff if the project does not proceed? | 5 | Sewer backups are a serious health risk to homeowners. |
| Legislation | Is the project required for legislative/regulatory compliance? | 5 | Ontario Water Resources Act |
| Asset Management | Is the project a high priority for replacement in the asset management plan. | 1 | N/A New Asset |
| Operational Performance | If the project proceeds (or fails to proceed), what will be the impact on operational performance? Comment on any impact on operating costs, staff time and maintenance. | 3 | Increased time to diagnose sewer emergencies in some cases |
| Financing | Can the cost of investment be leveraged or are there partnership funds available? | 2 | Reserves |
| Environment | Does the project address needs impacted by climate change? | 1 | Wet weather flows are now more frequent but this is not a relevant factor for this project |
| Socio-Economic Factors | To what degree does the project support diversity and inclusion Initiatives? | 1 | No public spaces adversely impacted |
| Aesthetic Value | To what degree is the aesthetic value of the asset improved? | 2 | No adverse impact on aesthetic value |
| Strategic Plan | Does the project help to meet a Key Result in the Strategic Plan? | 1 | N/A : Core Service |
| Public Input | Has the project been identified through public engagement? | 1 | None |