

CAPITAL PROJECT CHARTER

Year: 2027

Charter Number: STORM-004

Charter Name: Stormwater Collection and Operational Asset RMR Program

Lead Department: Storm

Type: RMR

Explanation (RMR or Growth): This program addresses the need to upgrade storm infrastructure and drainage to improve the level of service and the ongoing assessment, rehabilitation, and replacement of existing stormwater infrastructure.

Asset Category: Roads & Other Engineered Structures

Scope Statement: To enhance the City's storm drainage system by improving the level of service, conducting condition assessments, and ensuring the rehabilitation, maintenance, and replacement of stormwater infrastructure.

PROJECT CHARTER JUSTIFICATION

This program includes capital upgrades to enhance the level of service (LOS) in the City's stormwater system. Large capital storm projects were identified in the 2013 and 2021 Utility Master Plan (UMP) updates, highlighting undersized pipes that do not meet current LOS standards.

Additionally, the program includes a public-driven component, where the administration prioritizes localized storm drainage issues identified by residents. Once the Utilities Branch and Engineering Services verify concerns, they are incorporated into the program.

We have a total of 24 locations of which 6 have been selected for annual storm flow monitoring. Additional sites will be added each year to enhance data collection and improve the City's understanding of stormwater system performance. This ongoing monitoring ensures proactive management, early detection of potential issues, and informed decision-making for system improvements.

Infrastructure Rehabilitation, Storm Flow Monitoring Program, and CCTV Inspection Program

Key Components of the Program

1. Stormwater Infrastructure Condition Assessments
 - Conducted through closed-circuit television (CCTV) inspections and physical assessments.
2. Storm Infrastructure Rehabilitation
 - Pipe replacement using appropriate rehabilitation methods.

3. Infrastructure Upgrades & New Installations

- Includes swales, manholes, swales and catch basin repairs.

The 2008, 2013, and 2021 UMP updates recommended ongoing storm flow monitoring to:

- Capture storm event data
- Quantify storm runoff
- Support accurate stormwater system modeling

Current State - Stormwater infrastructure upgrades and redesigns are prioritized based on:

- Inspection data & historical maintenance records
- Risk assessment for public safety & City assets
- Operational needs in aging neighborhoods

Many older neighborhoods in St. Albert experience drainage issues, requiring stormwater infrastructure improvements to prevent private property damage.

Work under this program focuses on rehabilitation and replacement of:

- Storm mains & force mains (282 km)
- Catch basins (4632)
- Catch basin manholes (856)
- Manholes (3400)
- Services (5000)
- Swales (33.23 km)
- Culverts (158)
- Flow Monitoring Systems (6)

Key Issues - The UMP has identified a need for LOS improvements throughout the storm drainage system. This program will address priority locations, ensuring additional capacity through redesign and enhancement of existing infrastructure.

Major projects identified include:

- Deer Ridge Surge Pond
- Lacombe Park
- Mission Minor System
- Sturgeon & Grandin Subdivision Minor/Major System Upgrades

Some locations require upgrades due to aging infrastructure and soil conditions, affecting structural integrity and increasing failure risk.

Opportunities

- Annual budget for flow monitoring: Ensures accurate data collection for stormwater modeling & system optimization.
- Stormwater Asset Management: Supports proactive pipe rehabilitation and system capacity upgrades as outlined in the 2020 Water UMP.
- Continuous assessment & program updates: Each year, new needs are identified, ensuring the program remains aligned with service level demands.

Risks

- Availability of qualified consultants & contractors
- Unpredictable scope changes due to hidden issues uncovered during construction or design
- Disruptions to residential areas during work
- Supply chain challenges impacting material & equipment availability

Lifecycle Planning

- Underground utilities typically have a lifespan of 50+ years.
- Regular assessments and proactive rehabilitation extend system longevity and ensure long-term service reliability.

STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT

Council Strategic Priority: N/A

Initiatives: N / A

Operational Excellence Priority Area: 4. Operational Performance

Initiatives: N / A

Stakeholder Identification:

| Name & Role | Responsibility/Contribution |
|---|---|
| Utilities Primary | Project Sponsor/Owner |
| Utilities Branch PM | Project Management |
| Utilities Branch Engineers & Construction Supervisors | Input on capacity requirements, maintenance schedules, and replacement timelines that could affect the design |

| | |
|--|---|
| Environment Branch | Information and consulting, as required |
| Community Relations | Consult and inform as required |
| Other Internal Departments (Engineering (Transportation), Recreation & Parks, PW, Corporate Comms, etc.) | Consult and inform as required |
| External Stakeholders (residents, school boards, businesses, Indigenous Community, etc.) | Consult and inform as required. |

Timeline:

This is an ongoing program in which year 1 stormwater infrastructure design is completed, and year 2-3 construction occurs annually at various locations throughout the City. Project locations are determined based on challenges within the storm network, including:

- System capacity constraints
- Aging infrastructure
- Publicly identified drainage concerns
- Operational and maintenance requirements

The schedule and project prioritization are subject to annual review and adjustments to align with:

- Optimization with other infrastructure projects
- Development growth and demand
- Risk assessment and emergent issues
- Targeted level of service (LOS) improvements

This flexible, data-driven approach ensures efficient resource allocation and continuous improvement of the City’s stormwater infrastructure.

2027-2035 Planned Projects

- Flow Monitoring
- CCTV inspections
- Condition assessments
- Annual Catchbasin Replacements and Upsizing
- Existing storm min upgrades as part of DARP Phase 2 & 3 project
- Localized Small Sites (swales, catch basins, SWMF improvements)
- Mission Minor System – ON HOLD
- Grandin Minor System Phase 1
- Grandin Minor System Phase 2
- Grandin Minor System Phase 3
- Deer Ridge Phase 1

- Deer Ridge Phase 2
- Lacombe Park
- Other emergent repairs and/or rehabilitation

FINANCIAL INFORMATION

| | | |
|--------------|--|-------------------|
| 2027 | \$ | 4,779,300 |
| 2028 | | 3,237,200 |
| 2029 | | 2,026,500 |
| 2030 | | 4,504,500 |
| 2031 | | 3,439,100 |
| 2032 | | 3,484,400 |
| 2033 | | 3,530,600 |
| 2034 | | 3,577,800 |
| 2035 | | 3,626,000 |
| 2036 | | 3,626,000 |
| Total | \$ | 35,831,400 |
| | See Capital Project Worksheet for details. | |

Operational Impacts: No

Associated Operating Business Case &/or Capital Project Charters: N/A

CAPITAL PROJECT WORKSHEET

| Project Component | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Land Determined Costs | | | | | | | | | | |
| Flow Monitoring/CCTV | 575,200 | 575,200 | 62,100 | 62,100 | 62,100 | 62,100 | 62,100 | 62,100 | 62,100 | 62,100 |
| Detailed Planning and Design | 448,200 | 300,000 | 934,200 | 438,000 | 783,000 | 783,000 | 783,000 | 783,000 | 783,000 | 783,000 |
| Site Servicing | | | | | | | | | | |
| Structure/Building Construction | 3,315,700 | 2,000,000 | 826,200 | 3,520,000 | 2,268,000 | 2,313,300 | 2,359,500 | 2,406,700 | 2,454,900 | 2,454,900 |
| Landscaping | | | | | | | | | | |
| Construction Management | 150,000 | 162,000 | 54,000 | 270,000 | 162,000 | 162,000 | 162,000 | 162,000 | 162,000 | 162,000 |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | 290,200 | 200,000 | 150,000 | 214,400 | 164,000 | 164,000 | 164,000 | 164,000 | 164,000 | 164,000 |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| TOTAL | 4,779,300 | 3,237,200 | 2,026,500 | 4,504,500 | 3,439,100 | 3,484,400 | 3,530,600 | 3,577,800 | 3,626,000 | 3,626,000 |

Comments:

The project budget includes upgrades to the storm main along St. Anne St, St. Thomas as part of the Downtown Utilities Renewal project as well as updated cost escalation allowances to reflect current market conditions and anticipated price increases. The following adjustments have been applied:

- 3% – Flow Monitoring and Contingency
- 8% – Engineering Services, Construction and Construction Management

The higher escalation factors for engineering, construction, and construction management account for ongoing market volatility and material cost fluctuations. The contingency allocation remains conservative to address unforeseen conditions.

CAPITAL PROJECT CHARTER

Year: 2027

Charter Number: STORM 007

Charter Name: Stormwater Management Program

Lead Department: **Storm**

Type: RMR

Explanation (RMR or Growth): This program prioritizes erosion control as a primary strategy to prevent the degradation of downstream aquatic resources, including the Sturgeon River. Sediment control measures aim to prevent soil and other sediments from entering waterways, thereby preserving water quality. Effective erosion and sediment management supports a healthy Sturgeon River, minimizes the loss of aquatic resources, and enhances the overall health of St. Albert's waterways.

The purpose of the RMR program is to reduce sediment accumulation and minimize erosion within local stormwater management facilities, Carrot Creek, and the Sturgeon River. These enhancements help maintain water quality, protect aquatic ecosystems, and ensure the long-term sustainability of the city's stormwater infrastructure.

Asset Category: Roads & Other Engineered Structures

Scope Statement: To effectively control erosion and sedimentation, safeguard water quality, protect habitats, and maintain the ecological balance of surrounding ecosystems in St. Albert. This program focuses on implementing proactive measures to reduce sediment accumulation, enhance stormwater management infrastructure, and mitigate erosion impacts on local water bodies, including Carrot Creek and the Sturgeon River.

PROJECT CHARTER JUSTIFICATION

Erosion and sediment control are essential for maintaining water quality, protecting habitats, and reducing environmental impacts on surrounding ecosystems. In construction, land development, and conservation efforts, erosion often leads to significant soil displacement, negatively affecting local communities, vegetation, and wildlife. Increased sediment in rivers, lakes, and streams can degrade water quality and disrupt aquatic ecosystems.

Alberta Environment's Stormwater Water Quality Guidelines mandate that 85% of sediment particles (75 microns or larger) must be removed before stormwater is discharged into natural water bodies. The City is responsible for minimizing environmental impacts by implementing erosion and sediment control measures at stormwater outfalls.

This program focuses on the repair, replacement, and maintenance of:

- 48 stormwater outfalls along the Sturgeon River
- 49 oil grit separators

- 47 stormwater management facilities including 130 inlets and 82 outlets

Current State - The program has been extended due to city growth and findings from recent condition assessments. These assessments helped determine the required study, design, and construction of sediment control measures to minimize sediment accumulation in the Sturgeon River.

Issue - The 2014 Sedimentation and Erosion Control Program Update identified and prioritized several outfalls for sedimentation control facilities based on:

- Basin size and land use
- Magnitude of observed sediment deposits at various outfalls throughout the City

Several outfalls require immediate attention to comply with environmental regulations and to prevent further degradation of the watershed.

Opportunities -

- Comprehensive Condition Assessments:
 - Outfall assessments were completed in 2021
 - Stormwater management facility assessments were completed in 2022
 - A priority ranking system was established based on these assessments
- The program will align with previous updates to identify necessary rehabilitation, upgrades, and expansion efforts of outfalls, SWMF, etc.
- High-priority outfalls will be addressed first, followed by a long-term strategy for environmental stewardship and watershed protection.

Risks -

- The current engineering standard for SWMF is outdated and requires review and redevelopment
- Regulatory Changes:
 - Alberta Environment's stormwater quality guidelines could become more restrictive.
- Environmental and Regulatory Approvals:
 - Projects in floodplains may require approval from:
 - Environment Canada
 - Department of Fisheries and Oceans
 - Alberta Environment & Protected Areas

- Alberta Public Lands
 - Transport Canada
 - First Nations Consultation
 - Alberta Historical Resources Act (heritage site assessments)
- Recent changes to regulatory agencies could lead to longer permit processing times and higher costs.
- Land Availability:
 - Space must be secured for grit interceptors, sedimentation ponds, and erosion control measures at each outfall or ravine.
- Construction Challenges:
 - Weather constraints—fall construction is preferred to mitigate flooding risks.
 - Variable water levels in the Sturgeon River.
 - Soil conditions may affect construction feasibility.
 - Contractor availability—qualified contractors must be secured.
 - Infrastructure conflicts

Lifecycle Planning -

- Implement an annual condition assessment program to monitor erosion control effectiveness and update maintenance plans accordingly.

STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT

Council Strategic Priority: N/A

Initiatives: N / A

Operational Excellence Priority Area: 4. Operational Performance

Initiatives: N / A

Stakeholder Identification: Stakeholder Identification:

| Name & Role | Responsibility/Contribution |
|--|---|
| Utilities Primary | Project Sponsor/Owner |
| Utilities Branch PM | Project Management |
| Utilities Branch Engineers | Input on capacity requirements, maintenance schedules, replacement timelines that could affect design |
| Environment Branch | Information and consulting, as required |
| Community Relations | Consult and inform as required. |
| City of St. Albert Risk & Insurance Department | Consulted on all projects to determine if insurance required |
| Other Internal Departments (Engineering (CPO & Transportation), Recreation & Parks, PW, Corporate Comms, etc.) | Consult and inform as required |
| External Stakeholders (residents, school boards, businesses, etc.) | Consult and inform as required. |
| Indigenous Community | Consult and inform as required |
| Environmental Regulators (DFO, AEP, etc.) | Consult, collaborate, submit applications, permits, etc. |

Timeline:

This is an ongoing program where every year design or construction takes place in various locations throughout the city based on challenges in the storm network. Funds will also be utilized to ensure that any maintenance activities outside of regular operations are addressed to all high-priority and rehabilitated outfalls.

Schedule and project prioritization may change from year to year depending on optimization with other projects, emergent issues, development, demand, risk, and targeted level of service.

2027 – 2036 Planned Projects

Condition Assessment, Detailed Design & Construction

- 2027 Construction Outfalls 11A, 11C, 11B
- SWMF Sludge Surveys
- SWMF Sludge Removal Detailed Design and Construction
- Grandin Ravine Condition Assessment, Design & Improvements
- Existing OGS(I) Condition Assessment
- SWMF Desludging Program
- Replacement of Solids Dewatering Facility (at Badger site)
- Emergent repairs to outlets, inlets, culverts, banks

FINANCIAL INFORMATION

| | | | |
|--|--------------|-----------|-------------------|
| Investment Year | 2027 | \$ | 3,415,800 |
| | 2028 | | 3,378,900 |
| | 2029 | | 3,413,800 |
| | 2030 | | 2,022,200 |
| | 2031 | | 2,222,800 |
| | 2032 | | 3,133,100 |
| | 2033 | | 1,790,100 |
| | 2034 | | 2,700,400 |
| | 2035 | | 1,790,100 |
| | 2036 | | 2,721,000 |
| | Total | \$ | 26,588,200 |
| See Capital Project Worksheet for details. | | | |

Operational Impacts: No

Associated Operating Business Case &/or Capital Project Charters: N/A

CAPITAL PROJECT WORKSHEET

| Project Component | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Land Determined Costs | | | | | | | | | | |
| Condition Assessment | 360,500 | 66,900 | | 66,900 | | 66,900 | | 66,900 | | 66,900 |
| Detailed Planning and Design | 378,000 | 378,000 | 404,400 | 432,700 | 432,700 | 432,700 | | | | |
| Site Servicing | | | | | | | | | | |
| Structure/Building Construction | 2,160,000 | 2,376,000 | 2,447,200 | 1,296,000 | 1,296,000 | 2,160,000 | 1,296,000 | 2,160,000 | 1,296,000 | 2,160,000 |
| Landscaping | | | | | | | | | | |
| Construction Management | 135,000 | 135,000 | 135,000 | 54,000 | 135,000 | 135,000 | 135,000 | 135,000 | 135,000 | 135,000 |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | 382,300 | 423,000 | 427,200 | 172,600 | 359,100 | 338,500 | 359,100 | 338,500 | 359,100 | 359,100 |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| TOTAL | 3,415,800 | 3,378,900 | 3,413,800 | 2,022,200 | 2,222,800 | 3,133,100 | 1,790,100 | 2,700,400 | 1,790,100 | 2,721,000 |

Comments: The project budget includes updated cost escalation allowances to reflect current market conditions and anticipated price increases. The following adjustments have been applied:

- 3% – Flow Monitoring and Contingency
- 8% – Engineering Services, Construction and Construction Management

The higher escalation factors for engineering, construction, and construction management account for ongoing market volatility and material cost fluctuations. The contingency allocation remains conservative to address unforeseen conditions.

Supplementary detail/ maps of charter focus areas: N/A

CAPITAL PROJECT CHARTER

Year: 2027

Charter Number: WATER-002, WASWT-010, and STORM-001

Charter Name: Utility Master Plan

Lead Department: Water

Type: RMR

Explanation (RMR or Growth): Utility Master Plans are required to assess our existing water, wastewater, and stormwater infrastructure to determine required upgrades, repairs, or rehabilitations and establish future infrastructure needs as per the future development growth.

Asset Category: Roads & Other Engineered Structures

Scope Statement: A complete renewal of Utility Master Plans is scheduled for completion in 2027 encompassing changes in environmental regulations, engineering standards, infrastructure reaching the end of intended functional use, degradation, or capacity necessary for long-term future development. Following a 5-year planning cycle, an update of these Utility Master Plans will be conducted.

PROJECT CHARTER JUSTIFICATION

The Utility Master Plans (UMPs) form a critical component of the City of St. Albert's strategic planning framework, ensuring the long-term sustainability and reliability of the City's water, wastewater, and stormwater infrastructure. These master plans provide a comprehensive, data-driven assessment of existing utility networks and outline the necessary improvements to maintain service levels, support future growth, and optimize asset management.

By implementing the recommendations outlined in UMP, the City ensures that its utility services remain reliable, cost-effective, and environmentally responsible. These plans provide the foundation for informed decision-making, helping to prioritize infrastructure investments, and ensure that utility systems continue to meet the needs of both existing residents and future generations.

Current State - The most recent Utility Master Plan (UMP) Update was completed in 2021 and has been incorporated into the City's Capital Plan. A comprehensive renewal of the Water, Wastewater, and Stormwater UMPs is ongoing and is expected to be completed in 2027. An update to the current UMP is planned to be completed in 2032.

Issue - Despite the benefits that Utility Master Plans provide, actual development and the associated infrastructure installations do not always align with the Utility Master Plan. The Utility Master Plan must be updated at a regular frequency. Past history has shown that a comprehensive UMP updates every 10 years with a UMP update at the 5-year mid-point provides a good balance between value and cost. The timing of UMP updates can be affected by annexations, Municipal Development Plan updates and Transportation Master Plan updates.

Opportunities - UMPs play a critical role in identifying growth-related infrastructure needs. To ensure a comprehensive view of infrastructure requirements, UMPs must be evaluated alongside Repair, Maintenance, and Replacement (RMR) capital projects driven by Asset Management practices. The UMP renewal will integrate considerations for:

- Level of Service Programs to maintain reliable and efficient utility operations.
- Greenfield and Infill Development support sustainable urban expansion.
- Utility System Optimization to identify deficiencies, improve efficiency, and cost-effectiveness.

Risks - Failure to update the UMP will result in an outdated and ineffective infrastructure servicing strategy, leading to:

- Insufficient Utility Capacity that fails to support planned development and growth.
- Higher Servicing Costs due to reactive infrastructure expansion and redundant investments arising from inadequate planning.
- Misalignment with Growth Strategies, limiting the City’s ability to support sustainable economic and residential development.
- Increase the risk of misalignment across disciplines, resulting in rework, conflict scheduling, and waste of capital funds and resources.

Lifecycle Planning - UMP updates follow a structured planning cycle:

- Minor updates occur every five (5) years to reflect evolving infrastructure needs.
- Comprehensive renewals are conducted every ten (10) years to incorporate major growth, policy changes, and infrastructure overhauls.

This strategic approach ensures that utility infrastructure remains resilient, cost-effective, and aligned with the City's long-term vision for growth and development.

STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT

Council Strategic Priority: N/A

Initiatives: N / A

Operational Excellence Priority Area: 4. Operational Performance

Initiatives: 3.2 Enterprise Maintenance Management and Asset Management (AM) Platform

Stakeholder Identification:

| Name & Role | Responsibility or Contribution |
|---------------------------------------|--------------------------------|
| Utilities, Primary | Primary Stakeholder |
| Engineering Services (Transportation) | Stakeholder |
| Planning & Development | Stakeholder |

| | |
|--|---------------------------------|
| Environment Branch | Stakeholder |
| Other Internal Departments (Public Operations, Fire Services, Recreation & Parks, Corporate GIS, etc.) | Consult and inform as required |
| Other external stakeholders (UDI, Sturgeon County, developers, etc.) are listed below. | Consult and inform as required. |

Timeline:

| | |
|--------------|--|
| 2026 to 2027 | Utility Master Plan Comprehensive Assessment |
| 2032 | Utility Master Plan Update |
| 2036 to 2037 | Utility Master Plan Comprehensive Assessment |
| 2042 | Utility Master Plan Update |

FINANCIAL INFORMATION

Water Utility Master Plan Budget (WATER-002)

| | | | |
|--|--------------|-----------|----------------|
| Investment Year | 2027 | \$ | - |
| | 2028 | | - |
| | 2029 | | - |
| | 2030 | | - |
| | 2031 | | - |
| | 2032 | | 351,000 |
| | 2033 | | - |
| | 2034 | | - |
| | 2035 | | - |
| | 2036 | | - |
| | Total | \$ | 351,000 |
| See Capital Project Worksheet for details. | | | |

Wastewater Utility Master Plan Budget (WASTW-010)

| | | | |
|--|--------------|-----------|----------------|
| Investment Year | 2027 | \$ | - |
| | 2028 | | - |
| | 2029 | | - |
| | 2030 | | - |
| | 2031 | | - |
| | 2032 | | 351,000 |
| | 2033 | | - |
| | 2034 | | - |
| | 2035 | | - |
| | 2036 | | - |
| | Total | \$ | 351,000 |
| See Capital Project Worksheet for details. | | | |

Stormwater Utility Master Plan Budget (STORM-001)

| | | | |
|--|--------------|-----------|----------------|
| Investment Year | 2027 | \$ | - |
| | 2028 | | - |
| | 2029 | | - |
| | 2030 | | - |
| | 2031 | | - |
| | 2032 | | 351,000 |
| | 2033 | | - |
| | 2034 | | - |
| | 2035 | | - |
| | 2036 | | - |
| | Total | \$ | 351,000 |
| See Capital Project Worksheet for details. | | | |

Operational Impacts: No

Associated Operating Business Case &/or Capital Project Charters: NA

CAPITAL PROJECT WORKSHEET

| Project Component | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---------------------------------|------|------|------|------|------|-----------|------|------|------|------|
| Land Determined Costs | | | | | | | | | | |
| Master Plan | | | | | | 1,053,000 | | | | |
| Detailed Planning and Design | | | | | | | | | | |
| Site Servicing | | | | | | | | | | |
| Structure/Building Construction | | | | | | | | | | |
| Landscaping | | | | | | | | | | |
| Construction Management | | | | | | | | | | |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | | | | | | | | | | |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| TOTAL | - | - | - | - | - | 1,053,000 | - | - | - | - |

Comments: Cost increased based on 2025 submissions for the 2025/26 Utility Master Plan including a cost escalation of 8%.

Supplementary detail/ maps of charter focus areas: NA

CAPITAL PROJECT CHARTER

Year: 2027

Charter Number: WATER 003

Charter Name: Water Operational Asset RMR Program

Lead Department: Water

Type: RMR

Explanation (RMR or Growth): This program focuses on sustaining and restoring the performance of existing operational assets that support the water distribution system. The primary drivers are asset condition, reliability, safety, and regulatory/service-level compliance—not service expansion, upsizing for population growth, or network extension. Any capacity effects are incidental to restore a designed function and mitigating failure risk.

Asset Category: Roads & Other Engineered Structures

Scope Statement: This program includes the rehabilitation, maintenance, and replacement of critical operational water assets such as hydrants, valves, pressure-regulating equipment, cathodic protection systems, pumps, and localized water main sections to ensure the continued safe and reliable operation of the City's water distribution system. Work focuses on restoring asset conditions, reducing failure risk, and maintaining system performance and service levels.

PROJECT CHARTER JUSTIFICATION

This program is necessary to maintain a **safe, reliable, and continuously operating** water distribution system by addressing condition and performance risks in critical operational assets. Timely rehabilitation, maintenance, and replacement:

- **Reduces the likelihood and consequence of failure**, preventing leaks, service outages, and emergency work.
- **Supports firefighting capability** and public safety by keeping hydrants and isolation valves functional.
- **Maintains pressure control and water quality** via reliable PRVs/air valves and localized main renewals.
- **Slows corrosion and prolongs appurtenance life** through cathodic protection upkeep.
- **Improves operational efficiency and cost control**, shifting from reactive to planned work, and lowering lifecycle cost of ownership.
- **Supports compliance** with applicable safety, operational, and service standards.

Deferring this program increases risk exposure, escalates repair costs, and undermines service reliability and customer confidence.

Current State

The City's water infrastructure inventory includes over:

- 20,000 water service lines and valves
- 1900 fire hydrants
- 5200 mainline valves including pressure-reducing valves (PRVs)

The City's water network is aging, leading to more frequent service disruptions that affect residents, businesses, and emergency services. As these assets deteriorate, the risk of property damage, environmental impacts, and costly emergency repairs increases. Without proactive investment, failures will become more visible and more expensive, putting pressure on budgets and public expectations.

At the same time, declining asset reliability affects public safety, particularly firefighting capability and places growing strain on City operations. Investing now helps prevent disruptive failures, reduces long-term costs, and maintains community confidence in the reliability and safety of the municipal water system.

Opportunities

- **Improved service reliability** through proactive renewal instead of reactive emergency repairs.
- **Reduced long-term costs** by extending asset life and preventing major failures.
- **Better coordination with other City programs** (e.g., road work) to minimize disruptions and increase efficiency.
- **Enhanced data and asset management**, supporting more informed planning and investment decisions.
- **Improved public safety**, particularly through more reliable hydrants and system control points.

Risks

Delivery Risks

- Limited availability of qualified consultants, contractors, or materials may affect cost or scheduling.
- City staffing capacity may constrain planning, coordination, or oversight.
- Weather conditions and seasonal restrictions may delay field work.
- Conflicts with existing underground utilities may extend timelines or require adjustments to scope .
- Supply chain disruptions could impact delivery of key components.

Mitigation

Proactive planning, early procurement, resource coordination, and thorough site reviews will help reduce these risks and support reliable, cost-effective program delivery.

STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT

Council Strategic Priority: N/A

Initiatives: N / A

Operational Excellence Priority Area: 4. Operational Performance

Initiatives: 3.2 Enterprise Maintenance Management and Asset Management (AM) Platform

Stakeholder Identification:

| Name & Role | Responsibility/Contribution |
|--|--|
| Utilities Primary | Project Sponsor/Owner |
| Utilities Branch PM | Project Management |
| Utility Engineers, Supervisors | Input on capacity requirements, maintenance schedules, and replacement timelines that could affect the design |
| Environment Branch | Information and consulting, assistance with environmental regulatory requirements, public educational aspects, attend open houses, as required |
| City of St. Albert Risk & Insurance Department | Consulted on all projects to determine if insurance required |
| Other Internal Departments (Engineering, Recreation & Parks, PW, Corporate Comms, Community Relations, etc.) | Consult and inform as required |
| External Stakeholders (residents, school boards, businesses, Indigenous Community, etc.) | Consult and inform as required. |

Timeline:

Q3-Q4 prior year

- Inspections and identification of infrastructure for repair or replacement for the following year. Development of the scope of work. Other work is conducted on an “as-needed” basis pending emergent or other prioritized needs.

Q1/2

- Procurement of services

Q2-Q4

- Construction

FINANCIAL INFORMATION

| | | | |
|--|--------------|-----------|------------------|
| Investment Year | 2027 | \$ | 704,100 |
| | 2028 | | 739,300 |
| | 2029 | | 776,300 |
| | 2030 | | 807,300 |
| | 2031 | | 835,600 |
| | 2032 | | 864,800 |
| | 2033 | | 895,100 |
| | 2034 | | 926,400 |
| | 2035 | | 958,900 |
| | 2036 | | 992,400 |
| | Total | \$ | 8,500,200 |
| See Capital Project Worksheet for details. | | | |

Operational Impacts: No

Associated Operating Business Case &/or Capital Project Charters: NA

CAPITAL PROJECT WORKSHEET

| Project Component | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Land Determined Costs | | | | | | | | | | |
| Concept Planning | | | | | | | | | | |
| Detailed Planning and Design | | | | | | | | | | |
| Site Servicing | | | | | | | | | | |
| Structure/Building Construction | 704,100 | 739,300 | 776,300 | 807,300 | 835,600 | 864,800 | 895,100 | 926,400 | 958,900 | 992,400 |
| Landscaping | | | | | | | | | | |
| Construction Management | | | | | | | | | | |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | | | | | | | | | | |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| TOTAL | 704,100 | 739,300 | 776,300 | 807,300 | 835,600 | 864,800 | 895,100 | 926,400 | 958,900 | 992,400 |

Comments: Based on historical trends (scope and material/contractor costs), includes escalation of 5% in 2027 and 2028, 4% in 2029 and 3.5% per year from 2030 to 2036.

Supplementary detail/ maps of charter focus areas: N/A

CAPITAL PROJECT CHARTER

Year: 2027

Charter Number: WATER 004

Charter Name: Water Distribution RMR Program

Lead Department: Water

Type: RMR

Explanation (RMR or Growth): This program prioritizes water system improvements at key Level of Service (LOS) locations across the city to enhance capacity, reliability, and system resilience. The work will include strategically upgrading, upsizing, and constructing water mains to address LOS deficiencies and improve overall network performance.

In addition to LOS-driven upgrades, the program includes the replacement of aging or high-risk water mains that are susceptible to leaks, breaks, and failures. These renewals will reduce non-revenue water, mitigate system disruptions, and support consistent water quality.

Together, these investments will strengthen the city's water network, extend asset life, and ensure reliable water service delivery for current and future customers.

Asset Category: Roads & Other Engineered Structures

Scope Statement: To design, construct, upgrade, rehabilitate, or upsize water mains to enhance and sustain network performance.

PROJECT CHARTER JUSTIFICATION

This program delivers targeted rehabilitation, replacement, expansion, and upsizing water mains and associated infrastructure to address Level of Service (LOS) deficiencies, improve system reliability, and support anticipated growth.

These investments are necessary to mitigate risks posed by aging and high-failure-rate assets, reduce service interruptions, and maintain regulatory and operational performance standards. By renewing and enhancing critical components of the water network, the City ensures a resilient, efficient, and sustainable water system capable of meeting current and future service demands.

Current State - In 2026-27, an assessment will be conducted to prioritize locations previously identified in the 2021 Water Master Plan Update. This evaluation will incorporate field-level fire flow testing to verify system performance requirements and pinpoint areas experiencing frequent water main breaks. The integration of empirical field data will ensure that planned improvements align with both service-level objectives and long-term infrastructure sustainability. The current inventory of the City's water system infrastructure **includes:**

- 345 km of water supply, transmission, and distribution mains
- 20,000 water services
- 1900 fire hydrants
- 34 PRV Chambers
- 5200 main line valves and pressure-reducing valves (PRVs)

Issue - Beyond improving/maintaining the level of service (LOS), several locations have been identified where aging infrastructure or challenging soil conditions pose concerns regarding structural integrity. Without intervention, these vulnerabilities could lead to water main failures, increased maintenance costs, and service disruptions. Addressing these issues or alignment with other neighborhood or roadway renewal projects proactively is critical to ensuring network reliability, regulatory compliance, timely upgrades and public safety.

Opportunities - The 2021 Water Master Plan Update highlights priority locations where network looping, pipe capacity upgrades, and system reinforcements are necessary to enhance water distribution efficiency and fire protection capabilities. It is anticipated that the 2026 UMP will identify additional replacement priorities. Additionally, new infrastructure needs emerge annually through fire flow assessments, water quality testing, and operational data analysis. This program will be continuously updated to reflect evolving priorities, ensuring alignment with master planning objectives and ongoing infrastructure evaluations.

Risks - Several key challenges must be considered in the execution of this program:

1. Failure to implement necessary upgrades will elevate risks to surrounding properties, compromise fire protection capacity, and potentially reduce LOS below municipal standards.
2. Work in established neighborhoods and along arterial/collector roads will likely disrupt traffic, public access, and residential areas, requiring careful planning and mitigation strategies.
3. Geotechnical factors may necessitate specific construction methods (trenchless vs. open cut), impacting project budgets, timelines, and contractor availability.
4. Ensuring uninterrupted water service and fire protection reliability during construction is paramount, requiring contingency planning and phased implementation strategies.
5. Inclement weather could affect construction schedules, with varying degrees of impact depending on the selected construction techniques.
6. At the high-level planning stage, unforeseen utility conflicts pose risks to both budgetary allocations and project timelines, necessitating early investigative work and adaptive scheduling.
7. Market fluctuations in the availability and cost of materials may affect procurement timelines, requiring proactive sourcing strategies and contingency budgeting.

STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT

Council Strategic Priority: N/A

Initiatives: N / A

Operational Excellence Priority Area: 4. Operational Performance

Initiatives: 3.2 Enterprise Maintenance Management and Asset Management (AM) Platform

Stakeholder Identification:

| Name & Role | Responsibility/Contribution |
|--|---|
| Utilities Primary | Project Sponsor/Owner |
| Utilities PM | Project Management |
| Utility Engineers, Supervisors | Input on capacity requirements, maintenance schedules, and replacement timelines that could affect the design |
| Environment Branch | Information and consulting, assistance with environmental regulatory requirements, public educational aspects, attending open houses, as required |
| City of St. Albert Risk & Insurance Department | Consulted on all projects to determine if insurance required |
| Other Internal Departments (Engineering, Recreation & Parks, PW, Corporate Comms, Community Relations, etc.) | Consult and inform as required |
| External Stakeholders (residents, school boards, businesses, Indigenous Community, etc.) | Consult and inform as required. |

Timeline:

This is an ongoing infrastructure renewal program in which design and construction are carried out annually at different locations across the City. Project selection is based on identified challenges within the water network, considering both level of service (LOS) improvements, historical occurrences of water main breaks and alignment with other capital projects.

To ensure efficient project execution, design work for each location is typically completed one year before construction. However, the schedule and project prioritization are subject to annual adjustments based on:

- Coordination with other infrastructure projects
- Resource availability and budget allocations
- Development trends and demand fluctuations
- Risk assessments and emergent issues
- Targeted level of service objectives

2027 – 2036 Planned Projects (condition assessments, feasibility studies, detailed design, construction)

- PRV Improvements Program
- Upgrade to existing watermain and services on St. Anne St and St. Thomas.
- Upgrade to existing water mains at Boudreau Rd
- Upgrade to existing water mains at St. Thomas St. and Alpine Place
- High-priority water main repairs/replacements
- Upgrade to existing water main Mission Ave East and West
- Upgrades to the existing water main at Ecole Hillgrove School and Glenview Crescent
- Other emergent priorities

FINANCIAL INFORMATION

| | | | |
|--|--------------|-----------|-------------------|
| Investment Year | 2027 | \$ | 5,690,100 |
| | 2028 | | 4,690,100 |
| | 2029 | | 4,753,700 |
| | 2030 | | 3,404,100 |
| | 2031 | | 3,662,900 |
| | 2032 | | 3,861,000 |
| | 2033 | | 3,390,400 |
| | 2034 | | 3,522,200 |
| | 2035 | | 3,376,300 |
| | 2036 | | 3,376,300 |
| | Total | \$ | 39,727,100 |
| See Capital Project Worksheet for details. | | | |

Operational Impacts: No

Associated Operating Business Case &/or Capital Project Charters: N/A

CAPITAL PROJECT WORKSHEET

| Project Component | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Land Determined Costs | | | | | | | | | | |
| Concept Planning | | | | | | | | | | |
| Detailed Planning and Design | 400,000 | 400,000 | 428,700 | 310,300 | 327,600 | 306,800 | 315,700 | 338,300 | 338,300 | 338,300 |
| Site Servicing | | | | | | | | | | |
| Structure/Building Construction | 4,886,600 | 3,886,600 | 4,042,000 | 2,707,100 | 2,923,600 | 3,157,500 | 2,665,400 | 2,769,400 | 2,637,300 | 2,637,300 |
| Landscaping | | | | | | | | | | |
| Construction Management | 150,000 | 150,000 | 119,600 | 123,700 | 127,900 | 132,000 | 137,200 | 142,400 | 111,200 | 111,200 |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | 253,500 | 253,500 | 163,400 | 263,000 | 283,800 | 264,700 | 272,100 | 272,100 | 289,500 | 289,500 |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| TOTAL | 5,690,100 | 4,690,100 | 4,753,700 | 3,404,100 | 3,662,900 | 3,861,000 | 3,390,400 | 3,522,200 | 3,376,300 | 3,376,300 |

Comments: Planned program costs above reflect a combination of projects with well-defined scope (next 2 years), projects with partially defined scope (years 3 to 5) and placeholder projects (years 6 to 10). Inflation has been considered based on observed trends for materials, labour and equipment.

Supplementary detail/ maps of charter focus areas: N/A

CAPITAL PROJECT CHARTER

Year: 2027

Charter Number: WATER 006

Charter Name: Pump Station and Reservoir RMR Program

Lead Department: Water

Type: RMR

Explanation (RMR or Growth): This program supports the ongoing rehabilitation of existing Pump Station and Reservoir infrastructure.

Asset Category: Roads & Other Engineered Structures

Scope Statement: To undertake condition assessment, design work, and rehabilitation for the City's three (3) Reservoirs and Pumphouses.

PROJECT CHARTER JUSTIFICATION

This comprehensive capital program funds the condition assessments and lifecycle rehabilitation of the City's three reservoirs and pump stations. The program ensures that these critical assets are regularly evaluated for operational integrity and long-term sustainability, enabling proactive maintenance, repairs, and upgrades to maintain a reliable water supply for the City.

Current State

- Lacombe Park Reservoir & Pump Station: Originally built in 1980, this facility underwent substantial rehabilitation in 2005. A comprehensive condition assessment is planned for 2026-2027, with rehabilitation scheduled to begin in 2028. Once these renewals are completed, no further costs are anticipated within the current 10-year RMR capital plan.
- Sturgeon Reservoir and Pump Station: The replacement project for this facility was recently completed. No additional funding is expected to be required within the current 10 year RMR capital plan.
- Oakmont Reservoir: Built-in 1996, the Oakmont Reservoir is currently undergoing lifecycle upgrades, with upgrades scheduled for completion in 2026. No additional funding is expected to be required within the current 10 year RMR capital plan.
- A SCADA Master Plan update is planned for 2031 with anticipated improvements expected in 2032.

Issue - Lacombe Park Reservoir & Pump Station: Although no immediate improvements have been identified, the facility will be 21 years old in 2026, which is approaching the typical asset lifespan for major pumping and electrical systems (estimated at 20-25 years). A lifecycle assessment of critical equipment and systems, as well as a building assessment, is being completed in 2026.

Opportunities - As part of a continuing asset management strategy, a comprehensive assessment of the City’s reservoirs and pump stations will inform the update of the capital and maintenance plans for the entire Utilities Branch portfolio. This will ensure that infrastructure upgrades are aligned with evolving needs and will enhance the long-term reliability of these critical assets.

Risks

- Potential delays due to limited availability of qualified contractors.
- Adverse weather conditions may impact construction timelines and the availability of resources.
- Existing utilities may complicate construction or upgrade efforts, potentially causing project delays or increased costs.
- Pandemic-related impacts on material supply and demand could affect project schedules and budgets.

Lifecycle Planning- To ensure long-term operational sustainability, condition assessments of all reservoirs and pump stations should occur every 10 years to identify maintenance, repairs, and replacements. Electrical, process mechanical, and mechanical systems typically have a lifespan of 20-25 years, necessitating regular evaluations and upgrades to avoid system failures and ensure continued reliability. SCADA Master Plan is expected to occur every 5 years followed by any identified upgrades that are included in this program.

STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT

Council Strategic Priority: N/A

Initiatives: N / A

Operational Excellence Priority Area: 4. Operational Performance

Initiatives: 3.2 Enterprise Maintenance Management and Asset Management (AM) Platform

Stakeholder Identification: Stakeholder Identification:

| Name & Role | Responsibility/Contribution |
|---|--|
| Utilities Branch Primary | Project Sponsor/Owner |
| Utilities Branch PM | Project Management |
| Utilities Engineers, Operations, Team Leads | Input on capacity requirements, maintenance schedules, and replacement timelines that could affect the design |
| Environment Branch | Information and consulting, assistance with environmental regulatory requirements, public educational aspects, attending open houses |

| | |
|--|--|
| City of St. Albert Risk & Insurance Department | Consulted on all projects to determine if insurance required |
| Community Relations | Consult and inform as required |
| Other Internal Departments (Engineering, Development, Recreation & Parks, PO, Corporate Comms, etc.) | Consult and inform as required |
| External Stakeholders (Residents, businesses, schools, Indigenous Community. etc.) | Consult and inform as required |

Timeline: This is an ongoing program where design and construction are carried out annually at different locations across the City. Projects are selected based on challenges within the water network, considering both level of service (LOS) requirements and the occurrence of water main breaks. The design for each location is typically completed one year before construction to ensure adequate planning and resource allocation.

Schedule and project prioritization are flexible and may adjust each year based on factors such as:

- Coordination with other ongoing projects
- Lifecycle condition assessments of existing infrastructure
- Operational and maintenance needs
- Development patterns and fluctuating demand
- Risk mitigation and emerging issues
- Alignment with the targeted level of service goals

This adaptive approach allows for the effective management of resources, ensuring timely responses to both planned and unforeseen needs across the City’s water network.

FINANCIAL INFORMATION

| | | | |
|------------------------|--------------|-----------|--|
| Investment Year | 2027 | \$ | 758,500 |
| | 2028 | | 5,679,300 |
| | 2029 | | - |
| | 2030 | | - |
| | 2031 | | 150,000 |
| | 2032 | | 250,000 |
| | 2033 | | - |
| | 2034 | | - |
| | 2035 | | - |
| | 2036 | | - |
| | Total | \$ | 6,837,800 |
| | | | See Capital Project Worksheet for details. |

Operational Impacts: No

Associated Operating Business Case &/or Capital Project Charters: N/A

CAPITAL PROJECT WORKSHEET

| Project Component | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---------------------------------|----------------|------------------|----------|----------|----------------|----------------|----------|----------|----------|----------|
| Land Determined Costs | | | | | | | | | | |
| SCADA Master Plan Update | | | | | 150,000 | | | | | |
| Detailed Planning and Design | 661,200 | | | | | | | | | |
| Site Servicing | | | | | | | | | | |
| Structure/Building Construction | | 4,782,000 | | | | 250,000 | | | | |
| Landscaping | | | | | | | | | | |
| Construction Management | | 162,700 | | | | | | | | |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | 97,300 | 734,600 | | | | | | | | |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| TOTAL | 758,500 | 5,679,300 | - | - | 150,000 | 250,000 | - | - | - | - |

Comments: Cost escalation for construction, construction management and contingency based on projected cost escalation from observed trends in COSA projects and the capital region.

Supplementary detail/ maps of charter focus areas: N/A

CAPITAL PROJECT CHARTER

Year: 2027-2036

Charter Number: SOLWA-001

Charter Name: Recycling Depot Upgrades

Lead Department: Solid Waste Management

Type: RMR

Explanation (RMR or Growth): This is for the ongoing maintenance of the existing Recycling Depot

Asset Category: Civic Facilities

Scope Statement: Lifecycle replacement of equipment/infrastructure and maintaining of service levels for the existing Mike Mitchell Recycling Depot at 7 Chevigny Street.

PROJECT CHARTER JUSTIFICATION

Repair and replacement of existing infrastructure at the Mike Mitchell Recycling Depot (such as railing, platforms, storage for materials, install security equipment such as camera and lights, as well as paving, additional storage buildings, and the cardboard compactor rental, etc.) will be required due to the end of their life cycle and to increase site safety for both staff and residents. Additionally, upgrades to the depot are required maintain service delivery and to comply with environmental requirements.

Current State – The existing Recycling Depot was built in 2000 and is directly adjacent to the Jack Kraft Public Works facility at 7 Chevigny Street. The Depot is approximately 50 X 80 meters with an asphalt surface and is fenced and gated. There is external and internal signage which provides patrons with information on hours and site restrictions, traffic safety, waste and recycling instructions.

The area includes skid pads for 14 – 40 cubic yard metal bins with stairs and 10 platforms for patron access to bins. There is also a stand-alone bin for glass collection and two 2 cubic yard containers for Styrofoam collection.

In 2011, additional areas for household hazardous waste and electronics collection were added. A fenced cardboard compactor and small shed for staff were also added. In 2015, the household hazardous waste area was improved with a covered structure and secondary containment to address environmental concerns.

The north area of the Recycling Depot also includes an area with concrete block walls for bulk compost giveaway and bike collection for donating to non-profit organizations.

Recent previous upgrades include an additional 40-yard bin for diseased branch disposal, cameras and audio alarm system, fencing and barbed wire upgrades and replacements.

Issue – Regular routine maintenance of our platforms to ensure safe surfaces for the public to walk on, sandblasting and resurfacing with non-slip paint is required ongoing. As our depot grows there are many things that need to be addressed in regular maintenance, improvements and or replacement.

Opportunities – As opportunities for additional recycling or waste diversion streams become available, there may be the need to add or modify existing infrastructure. A covered structure, like the hazardous waste structure may be needed over the area for storing Styrofoam to ensure these items are clean and dry to be recycled. Also, our household battery drop off has increased significantly in size and could use additional covered and storage space. Additional measures can also be added for security, like a card activated gate and adding signage for security purposes and information to the public of what goes where.

Risks – Special attention must be paid to infrastructure that is needed to ensure staff and patron safety such as the compactor, platforms and stairs, lighting and signage. Improvements to infrastructure may also be required to manage environmental risks identified through regular EMS inspections and/or changes to environmental regulations or guidelines. Should the level of service change or additional business ventures be contemplated through this site additional capital expenditures may be required. The impacts of the provincial implementation of EPR remains a concern with multi-family residents coming into the program October 1, 2026.

STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT

Council Strategic Priority: 4. Adapting to a Changing Environment

Initiatives: N / A

Operational Excellence Priority Area: N / A

Initiatives: N / A

Timeline: Varies, depending on replacement and required upgrades. It is anticipated that in any given year the projects will be completed in the year identified.

| | | | | |
|--|------------------------|--------------|----|-----------|
| FINANCIAL INFORMATION: | Investment Year | 2026 | \$ | 32,500 |
| | | 2027 | | 32,500 |
| | | 2028 | | 32,500 |
| | | 2029 | | 32,500 |
| | | 2030 | | 32,500 |
| | | 2031 | | 32,500 |
| | | 2032 | | 32,500 |
| | | 2033 | | 32,500 |
| | | 2034 | | 32,500 |
| | | 2035 | | 32,500 |
| | | Total | | \$ |
| See Capital Project Worksheet for details. | | | | |

Operational Impacts: No If yes, refer to Operating Impacts Worksheet for details.

Associated Operating Business Case: N/A

CAPITAL PROJECT WORKSHEET

| PROJECT COMPONENT | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Land Determined Costs | | | | | | | | | | |
| Concept Planning | | | | | | | | | | |
| Detailed Planning and Design | | | | | | | | | | |
| Site Servicing | | | | | | | | | | |
| Structure/Building Construction | | | | | | | | | | |
| Landscaping | | | | | | | | | | |
| Construction Management | | | | | | | | | | |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | | | | | | | | | | |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| Other | 32,500 | 32,500 | 32,500 | 32,500 | 32,500 | 32,500 | 32,500 | 32,500 | 32,500 | 32,500 |
| TOTAL | - | - | - | - | - | - | - | - | - | - |

Comments: Monies unused will be carried over to complete larger projects.

CAPITAL PROJECT CHARTER

Year: 2027

Charter Number: WASWT-001

Charter Name: Wastewater Operational Asset RMR Program

Lead Department: Wastewater

Type: RMR

Explanation (RMR or Growth): This program supports Utilities Operations with ongoing rehabilitation, maintenance, and replacement of existing wastewater systems infrastructure.

Asset Category: Roads & Other Engineered Structures

Scope Statement: To plan and implement capacity improvements and timely rehabilitation and replacement of wastewater collection system infrastructure through proactive programs and projects.

PROJECT CHARTER JUSTIFICATION

This program focuses on the reduction of Inflow and Infiltration (I&I) and the rehabilitation, maintenance, and emergent replacement of wastewater infrastructure that is nearing, at, or beyond its estimated useful life. Key components of this program include:

- Manholes and control structures
- Sewer main spot replacements
- Pumps and ancillary equipment

These elements are critical for maintaining a safe, reliable, and environmentally compliant wastewater conveyance system, ensuring efficient flow to the Arrow Utilities Primary Pump Station.

Current State - The City's wastewater infrastructure inventory consists of:

- 325 km of network: force main, gravity main, and trunk sewers
- 20,400 sewer services
- 4100 manholes
- 20 wastewater lift stations

Issue - This project is designed to reduce the risk of sewer service disruptions and backups, which can occur due to planned, unplanned, or emergent shutdowns. Failure to maintain the system can lead to:

- Property damage (both public and private)
- Environmental hazards from system failures

- Increased operational costs due to emergency repairs

Opportunities - This program provides essential funding for wastewater infrastructure that is deteriorating, beyond its expected lifespan, or has failed. Infrastructure needs are identified through:

- Operations and maintenance activities
- Wastewater system studies
- Asset condition assessments and prioritization
- Supporting data analytics

Additionally, this program helps to:

- Enhance wastewater system capacity
- Reduce risks associated with peak flow events and wastewater surcharge
- Improve system efficiency and reliability

Risks - Several factors may impact the successful execution of this program, including:

- Limited availability of qualified engineering consultants and contractors
- Constraints on City resources
- Inclement weather conditions affecting project timelines
- Conflicting underground infrastructure complicating construction efforts
- Material supply chain disruptions

By proactively investing in wastewater infrastructure renewal, the City can mitigate risks, optimize system performance, and ensure long-term service reliability for residents.

STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT

Council Strategic Priority: N/A

Initiatives: N / A

Operational Excellence Priority Area: 4. Operational Performance

Initiatives: 3.2 Enterprise Maintenance Management and Asset Management (AM) Platform

Stakeholder Identification:

| Name & Role | Responsibility/Contribution |
|---|--|
| Utilities Primary | Project Sponsor/owner |
| Project Manager | Procurement, Contract Administration |
| Utilities Branch Engineers | Input on capacity requirements, maintenance schedules, and replacement timelines that could affect the design |
| Utilities Supervisor (Construction & Maintenance) | Input on capacity requirements, maintenance schedules, and replacement timelines that could affect design and project management |

| | |
|---|--|
| Environment Branch | Environmental regulatory requirements |
| Community Relations | Consult and inform as required |
| City of St. Albert Risk & Insurance Department | Consulted on all projects to determine if insurance required |
| Other Internal Departments (Engineering, Planning & Development, Recreation & Parks, PW, Corporate Comms, etc.) | Consult and inform as required |
| External Stakeholders (Indigenous Community, schools, businesses, residents, users, etc.) | Consult and inform as required. |

Timeline:

This is an ongoing program where every year inspection, condition assessments, or construction occurs in various locations throughout the city based on the current physical condition of the wastewater collection system.

Q3 – Q4 prior year

- Inspections and identification of infrastructure for repair or replacement for the coming year. Development of scope of work. Other work may be conducted throughout the year pending emergencies or other priorities as applicable.

Q1

- Procurement of services.

Q2-Q4

- Construction and CCTV inspection program.

FINANCIAL INFORMATION

| | | | |
|------------------------|--------------|-----------|--|
| Investment Year | 2027 | \$ | 372,600 |
| | 2028 | | 383,700 |
| | 2029 | | 394,900 |
| | 2030 | | 406,200 |
| | 2031 | | 418,200 |
| | 2032 | | 431,000 |
| | 2033 | | 443,900 |
| | 2034 | | 457,100 |
| | 2035 | | 470,900 |
| | 2036 | | 494,400 |
| | Total | \$ | 4,272,900 |
| | | | See Capital Project Worksheet for details. |

Operational Impacts: No

Associated Operating Business Case &/or Capital Project Charters: NA

CAPITAL PROJECT WORKSHEET

| Project Component | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Land Determined Costs | | | | | | | | | | |
| Concept Planning | | | | | | | | | | |
| Detailed Planning and Design | | | | | | | | | | |
| Site Servicing | | | | | | | | | | |
| Structure/Building Construction | 361,800 | 372,600 | 383,400 | 394,400 | 406,100 | 418,500 | 431,000 | 443,800 | 457,200 | 480,000 |
| Landscaping | | | | | | | | | | |
| Construction Management | | | | | | | | | | |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | 10,800 | 11,100 | 11,500 | 11,800 | 12,100 | 12,500 | 12,900 | 13,300 | 13,700 | 14,400 |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| TOTAL | 372,600 | 383,700 | 394,900 | 406,200 | 418,200 | 431,000 | 443,900 | 457,100 | 470,900 | 494,400 |

Comments: Due to the cost escalation in the capital region for materials, this charter reflects an 11% increase for 2027 and an annual increase of 3% for 2028 to 2036.

Supplementary detail/ maps of charter focus areas: N/A

CAPITAL PROJECT CHARTER

Year: 2027

Charter Number: WASWT-002

Charter Name: Wastewater Household Sewer Service Replacement

Lead Department: Wastewater

Type: RMR

Explanation (RMR or Growth): This program supports Utilities Operations with ongoing replacement/rehabilitation of existing wastewater household services and the inclusion of infill service installation.

Asset Category: Roads & Other Engineered Structures

Scope Statement: To facilitate the timely and cost-effective replacement or rehabilitation of the City's deficient wastewater infrastructure, enhancing system reliability and ensuring long-term service sustainability.

PROJECT CHARTER JUSTIFICATION

This program is designed to proactively mitigate the risk of sewer backups by facilitating the replacement or rehabilitation of the City's portion of deficient wastewater household services.

Program Scope

Part 1: Proactive Replacement and Rehabilitation

The program targets wastewater service lines that are at or beyond their estimated useful life or exhibit structural deficiencies. Selection for replacement or rehabilitation is based on:

- Age and condition of the asset
- Observed deficiencies, including root intrusion, cracks, fractures, sags, and material degradation
- Integration with adjacent wastewater improvement projects to maximize efficiency

Part 2: Infill Service Installations

The program also supports the City's portion of household service installations for infill lot redevelopment. Based on recent trends, approximately 15 new infill service installations are completed annually, with this number expected to rise.

Current State

- The City manages approximately 20,400 residential sanitary service laterals.
- Service conditions range from extremely poor (exhibiting cracks, root intrusion, and structural failure) to good condition.

Issue - Many older sewer services were constructed using materials such as:

- Clay tile
- Concrete
- No-corrode (bituminized fiber)
- Infrastructure within mature neighbourhoods continues to age, deteriorate and result in increased number of sewer service inspection and maintenance requests by residents; subsequently, with increased inspections an increased amount of deficiencies are identified which are assigned for RMR through this program.

These materials are prone to degradation or failure due to their composition, inadequate bedding conditions, and outdated installation practices. The availability of modern PVC pipes has significantly improved service life and durability.

This ongoing program is intended to address deteriorating service lines before catastrophic failures occur, preventing costly emergency repairs and sewer backups.

Opportunities

- The annual program ensures the City maintains responsibility for sewer service lines from the main to the property line.
- Homeowners are responsible for their portion of the wastewater service from the property line to their home.
- Cost savings may be available to homeowners who choose to coordinate with the City's contractor for simultaneous replacement of their private portion of the service line.
- To reduce the risk of cluster failures, prioritize targeted renewal in neighbourhoods with service lines of similar age, material type, and condition

Risks - Several factors may impact project execution:

- Failure to complete recommended work increases risk to residential properties.
- Construction in established areas may disrupt traffic, driveways, boulevards, and public access.
- Soil conditions, service depth, and site constraints affect construction methods (trenchless vs. open cut), costs, and contractor availability.
- Conflicting underground infrastructure may require design modifications.
- Service continuity must be maintained during construction for residents and businesses.
- Inclement weather can impact project schedules and construction methods.
- Unknown utility conflicts at the planning stage could affect budget and timeline.
- Material supply chain challenges may lead to delays.

This proactive, structured approach ensures the continued reliability, efficiency, and sustainability of the City's wastewater infrastructure while reducing long-term maintenance and emergency repair costs.

STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT

Council Strategic Priority: N/A

Initiatives: N / A

Operational Excellence Priority Area: 4. Operational Performance

Initiatives: N / A

Stakeholder Identification:

| Name & Role | Responsibility/Contribution |
|---|--|
| Utilities Primary | Project Sponsor/Owner |
| Project Manager | Project Management |
| Utilities Supervisor (Construction & Maintenance) | Input on maintenance schedules, identification of services requiring replacement, replacement timelines, and documentation |
| Environment Branch | Information and consulting, as required |
| Community Relations | Consult and inform as required. |
| City of St. Albert Risk & Insurance Department | Consulted on all projects to determine if insurance required |
| Other Internal Departments (Engineering, Planning & Development, Recreation & Parks, PW, Corporate Comms, etc.) | Consult and inform as required |
| External Stakeholders - Residents | Consult and inform as required. |

Timeline:

This is an ongoing program where every year condition assessments and construction take place in various locations throughout the city.

Schedule and project prioritization may change from year to year depending on optimization with other projects, development, demand, risk, emergent issues, and targeted level of service.

Q3-Q4 prior year

- Inspections and identification of infrastructure for repair or replacement for the following year. Development of the scope of work. However, emergencies or other prioritization of work may be conducted through the year as applicable.

Q1

- Procurement of services

Q2-Q4

- Construction
- Testing and commissioning to take place immediately after replacement is completed.

FINANCIAL INFORMATION

| | | | |
|--|--------------|-----------|-------------------|
| Investment Year | 2027 | \$ | 1,099,700 |
| | 2028 | | 1,183,000 |
| | 2029 | | 1,272,800 |
| | 2030 | | 1,369,500 |
| | 2031 | | 1,473,700 |
| | 2032 | | 1,585,900 |
| | 2033 | | 1,706,900 |
| | 2034 | | 1,837,200 |
| | 2035 | | 1,977,700 |
| | 2036 | | 2,129,000 |
| | Total | \$ | 15,635,400 |
| See Capital Project Worksheet for details. | | | |

Operational Impacts: No

Associated Operating Business Case &/or Capital Project Charters: NA

CAPITAL PROJECT WORKSHEET

| Project Component | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Land Determined Costs | | | | | | | | | | |
| Concept Planning | | | | | | | | | | |
| Detailed Planning and Design | | | | | | | | | | |
| Infill Servicing | 150,000 | 157,500 | 165,300 | 173,600 | 182,300 | 191,400 | 201,000 | 211,000 | 221,600 | 232,600 |
| Structure/Building Construction | 915,300 | 988,500 | 1,067,600 | 1,153,000 | 1,245,200 | 1,344,800 | 1,452,400 | 1,568,600 | 1,694,100 | 1,829,600 |
| Landscaping | | | | | | | | | | |
| Construction Management | | | | | | | | | | |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | 34,400 | 37,000 | 39,900 | 42,900 | 46,200 | 49,700 | 53,500 | 57,600 | 62,000 | 66,800 |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| TOTAL | 1,099,700 | 1,183,000 | 1,272,800 | 1,369,500 | 1,473,700 | 1,585,900 | 1,706,900 | 1,837,200 | 1,977,700 | 2,129,000 |

Comments: The 2027 budget has been revised to reflect 2025 tender outcomes, a cost escalation of 5% on Infill Servicing, an increase of 8% on construction and 3% contingency increase. The 2025 tender results confirmed a sustained upward trend in construction-specific inflation. Since 2020, the unit rates for sanitary sewer lateral repairs have been impacted by compounded increases in raw material costs, specialized labor and equipment. This adjustment ensures the project charter accurately reflects the current fiscal environment and mitigates the risk of funding shortfalls during execution.

Supplementary detail/ maps of charter focus areas: N/A

CAPITAL PROJECT CHARTER

Year: 2027

Charter Number: WASWT-004

Charter Name: Wastewater Collection RMR Program

Lead Department: Wastewater

Type: RMR

Explanation (RMR or Growth): This program supports our existing wastewater system by addressing the level of service limitations, increasing the capacity of our existing system, and supporting the ongoing assessment, rehabilitation, and replacement of existing wastewater system infrastructure.

Asset Category: Roads & Other Engineered Structures

Scope Statement: To provide relief to areas affected by the level of service limitations such as surcharging of mains and to increase the capacity of our existing system through the replacement and rehabilitation of wastewater infrastructure as determined through condition assessments and capital prioritization strategies identified in utility master plans.

PROJECT CHARTER JUSTIFICATION

The latest Sanitary Utility Master Plan (UMP) Update (2021) identified high-priority gravity sewer improvements and future infrastructure upgrades. This project charter reflects the UMP findings and includes updated cost estimates covering:

- 20% engineering fees
- 20% contingency
- Construction costs (e.g., site restoration, manhole replacements, excavation)

This program is designed to:

- Increase system capacity in areas affected by LOS limitations (e.g., surcharging mains with potential basement flooding risks)
- Rehabilitate and replace aging pipes based on lifecycle assessments (previously WASWT-003)
- Prioritize upgrades using Closed-Circuit Television (CCTV) inspections, flow monitoring, and operational data

Current State

- The 2021 Sanitary UMP identified several LOS deficiencies across the wastewater system.

- Efforts in recent years have focused on backlog reduction, reviewing video assessment data, and integrating findings into the asset management system.
- The focus has now shifted to condition assessments, scope development, and project prioritization.
- The program will also include manhole rehabilitation where mains are in poor condition.

Issue - This ongoing program prioritizes LOS improvements by increasing sewer capacity where needed and replacing aging infrastructure before failure occurs. As sewer mains deteriorate, additional rehabilitation needs will be identified through continuous condition assessments. Additionally, the program will:

- Conduct studies on hydrogen sulfide (H₂S) levels and its corrosive effects on pipe materials
- Develop mitigation strategies to extend infrastructure lifespan

Opportunities -

- Annual funding allocation supports wastewater flow monitoring, enabling field verification of model results, and better prioritization of identified LOS deficiencies.
- This initiative enables proactive rehabilitation of structurally deficient pipes, preventing:
 - Catastrophic failures
 - Escalating repair costs
 - Service disruptions

Risks & Challenges

- Unforeseen scope expansion in areas identified for capacity upgrades.
- Construction costs exceed budget estimates.
- Availability of qualified contractors.
- Weather conditions affect wastewater flows, bypass pumping, costs, and scheduling.
- Soil conditions impact construction methods and timelines.
- (2027) Underground utility conflicts require design adjustments.
- Maintaining service levels during construction, including under peak flow conditions.
- Supply chain challenges affecting equipment and material availability.

This comprehensive approach ensures the long-term reliability, efficiency, and sustainability of the City's wastewater infrastructure while managing risks and optimizing investments.

STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT

| Name & Role | Responsibility/Contribution |
|--|--|
| Utilities Primary | Project Sponsor/Owner |
| Project Manager | Project Management |
| Utilities Branch Engineer(s) | Input on capacity requirements, maintenance schedules, and replacement timelines that could affect the design |
| Utilities Supervisor (Construction & Maintenance) | Input on maintenance schedules, identification of services requiring replacement, replacement timelines, and documentation |
| Environment Branch | Information and consulting, as required |
| Community Relations | Consult and inform as required |
| City of St. Albert Risk & Insurance Department | Consulted on all projects to determine if insurance required |
| Other Internal Departments (Engineering, Planning & Development, Recreation & Parks, PW, Transit, Corporate Comms, etc.) | Consult and inform as required |
| External Stakeholders - (residents, school boards, businesses, Indigenous Relations, etc.) | Consult and inform as required. |

Timeline: This is an ongoing program where every year design or construction takes place in various locations throughout the city based on challenges in the water network, both from a level of service perspective as well as from the occurrence of breaks.

The design for each location will be completed one year before construction.

Project schedules and priorities are subject to annual review and may shift based on:

- Integration with other infrastructure projects
- Development and population growth
- Service demand fluctuations
- Risk assessment and emergent issues
- Targeted service level objectives

This flexible approach ensures efficient resource allocation and optimized investment in the City's infrastructure.

2027-2035 Planned Projects (condition assessments, detailed design & construction)

- CCTV Inspections
- Flow Monitoring
- Downtown Utilities Renewal Project
- Phase 2 priorities pairs condition assessment
- Grange Drive Gravity Sewer Upsizing Upgrades
- SAT and McKenney Ave and Liberton Dr Phase 1 & 2 Gravity Sewer Upsizing Upgrades
- Upgrades at St. Vital Ave

- Oakland Way & Oakland Drive Gravity Sewer Upsizing Upgrades
- Upgrades at Akins Dr.
- Upgrades at Glenview Cres.
- Upgrades at Grosvenor Blvd
- Upgrades at Riel Dr.
- Upgrades at McKenney Ave
- Placeholders for other emergent priorities

FINANCIAL INFORMATION

| | | | |
|--|--------------|-----------|-------------------|
| Investment Year | 2027 | \$ | 9,192,700 |
| | 2028 | | 3,309,100 |
| | 2029 | | 2,795,700 |
| | 2030 | | 4,295,500 |
| | 2031 | | 4,295,500 |
| | 2032 | | 4,295,500 |
| | 2033 | | 4,295,500 |
| | 2034 | | 4,295,500 |
| | 2035 | | 4,295,500 |
| | 2036 | | 4,295,500 |
| | Total | \$ | 45,366,000 |
| See Capital Project Worksheet for details. | | | |

Operational Impacts: No

Associated Operating Business Case &/or Capital Project Charters: N/A

CAPITAL PROJECT WORKSHEET

| Project Component | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Land Determined Costs | | | | | | | | | | |
| Flow Monitoring | 61,800 | 64,000 | 66,000 | 66,000 | 66,000 | 66,000 | 66,000 | 66,000 | 66,000 | 66,000 |
| Detailed Planning and Design | 700,000 | 300,000 | 367,500 | 328,100 | 328,100 | 328,100 | 328,100 | 328,100 | 328,100 | 328,100 |
| Site Servicing | | | | | | | | | | |
| Structure/Building Construction | 7,500,000 | 2,500,000 | 2,006,200 | 3,537,000 | 3,537,000 | 3,537,000 | 3,537,000 | 3,537,000 | 3,537,000 | 3,537,000 |
| Landscaping | | | | | | | | | | |
| Construction Management | 250,000 | 200,000 | 106,000 | 114,400 | 114,400 | 114,400 | 114,400 | 114,400 | 114,400 | 114,400 |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | 680,900 | 245,100 | 250,000 | 250,000 | 250,000 | 250,000 | 250,000 | 250,000 | 250,000 | 250,000 |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| TOTAL | 9,192,700 | 3,309,100 | 2,795,700 | 4,295,500 | 4,295,500 | 4,295,500 | 4,295,500 | 4,295,500 | 4,295,500 | 4,295,500 |

Comments: Updated costs include an increase to the Downtown Utilities Renewal Project, cost escalation of 3% for flow monitoring, engineering services 5%, construction 8%, and contingency 5% for 2027 and 0% inflation for 2031 to 2036 (these are placeholder years in anticipation that additional sewer main renewal will be needed).

Supplementary detail/ maps of charter focus areas: N/A

CAPITAL PROJECT CHARTER

Year: 2027

Charter Number: WASWT-020, STORM-020

Charter Name: Lift Station RMR Program

Lead Department: Wastewater

Type: RMR

Explanation (RMR or Growth): This program is responsible for assessing the condition of the infrastructure at all City of St. Albert Sanitary and Storm Lift Stations.

Asset Category: Roads & Other Engineered Structures

Scope Statement: This program consists of an in-depth condition assessment study of all the City Lift stations (sanitary and storm) from a life cycle perspective as well as funds for upgrades or replacements of existing lift stations.

PROJECT CHARTER JUSTIFICATION

A Life-Cycle Assessment (LCA) study of the City's lift stations was conducted in 2006 and 2019 to evaluate infrastructure conditions and prioritize cost-effective upgrades, replacement, and rehabilitation programs. These recommendations ranged from minor safety repairs to full lift station reconstructions.

Since these studies, several capital upgrades have been completed, including:

- Riel Lift Station and Gate Avenue Lift Station reconstructions
- SCADA Master Plan Development and Upgrades (2020)
- Oakmont Lift Station and Rivercrest Lift Station upgrades (2021)
- Upgrades to seven (7) lift stations (2023)
- Design of the Twilight Lift Station replacement (2024)
- Construction of Twilight Lift Station (2026)

Ongoing Asset Management & Future Planning

Life-Cycle Assessment Studies are living documents, typically updated every 10 years to:

- Allow sufficient time to implement recommendations
- Revise capital programs based on emerging needs
- Ensure funding is allocated appropriately
- Uphold timely and proactive assessment of infrastructure that are susceptible to deterioration in varying degrees and intensity pending ever-changing sewage conditions.

The next comprehensive LCA update is scheduled for 2028 to support long-term capital and maintenance planning for all lift stations.

Current State - Lift Station Inventory (as of February 2026, subject to change)

- Sanitary Lift Stations: 17
- Storm Lift Stations: 4

Issues

Lift stations face deterioration in both:

- Building envelope integrity
- Pumping systems & equipment lifespan
- SCADA System instrumentation and controls exposure and technology lifespan

Regular LCA studies are essential to:

- Assess structural & mechanical conditions
- Develop proactive rehabilitation & replacement plans
- Ensure operational reliability & safety

Opportunities - This initiative aligns with the City's Asset Management Strategy and the Council's priority to cultivate sustainable infrastructure, ensuring the effective management of wastewater assets and long-term service reliability.

Risks

- Outdated assessments could lead to increased operational issues and costly emergency repairs
- Escalation of construction costs beyond allocated funding
- Availability of qualified consultants & contractors
- Unforeseen delays affecting project timelines

Lifecycle Planning - With lift stations ranging in age from under 2 years to nearly 50 years, ongoing studies remain the most effective tool for evaluating asset conditions and supporting data-driven planning for maintenance and replacement.

- Building structures: ~50-year lifespan
- Mechanical & electrical systems: ~10 to 25-year lifespan pending severity of conditions
- Instrumentation & pumping components: ~7-year lifespan

STRATEGIC PLAN & CORPORATE BUSINESS PLAN ALIGNMENT

Council Strategic Priority: N/A

Initiatives: N / A

Operational Excellence Priority Area: 4. Operational Performance

Initiatives: N / A

Stakeholder Identification:

| Name & Role | Responsibility/Contribution |
|---|---|
| Utilities Primary | Project Sponsor/Owner |
| Utilities Branch PM | Project Management |
| Utilities Engineers and Supervisors | Input on capacity requirements, maintenance schedules, and replacement timelines that could affect the design |
| Environment Branch | Information and consulting, assistance with environmental regulatory requirements, as required |
| Facility Services | Information and consulting, assistance with requirements, as required |
| City of St. Albert Risk & Insurance Department | Consulted on all projects to determine if insurance required |
| Other Internal Departments (Engineering, Recreation & Parks, PW, Corporate Comms, etc.) | Consult and inform as required |
| External Stakeholders (residents, school boards, businesses, etc.) | Consult and inform as required. |

Timeline:

Studies are to be conducted every 10 years followed by engineering services and construction for any work identified in the study and SCADA Master Plan updates to be conducted every 5 years.

Schedule and project prioritization may change from year to year depending on optimization with other projects, development, demand, risk, emergent issues, and targeted level of service.

- 2026 Twilight LS Renewal
- 2028 Lift Station Condition Assessments
- 2029 Engineering Services of identified Work
- 2030 & 2031 Construction of identified Work
- 2031 SCADA Master Plan Update & Engineering Services
- 2032 SCADA System Upgrades, if required

- 2038 Lift Station Condition Assessments & SCADA Master Plan Update
- 2039 Engineering Services of identified Work
- 2040 Construction of identified Work

- 2048 Lift Station Condition Assessments & SCADA Master Plan Update
- 2049 Engineering Services of identified Work
- 2050 Construction of identified Work

FINANCIAL INFORMATION

Wastewater Lift Station Budget (WASWT-020)

| | | | |
|--|--------------|-----------|------------------|
| Investment Year | 2027 | \$ | - |
| | 2028 | | 396,200 |
| | 2029 | | 499,200 |
| | 2030 | | 1,981,300 |
| | 2031 | | 2,164,300 |
| | 2032 | | 250,000 |
| | 2033 | | - |
| | 2034 | | - |
| | 2035 | | - |
| | 2036 | | - |
| | Total | \$ | 5,291,000 |
| See Capital Project Worksheet for details. | | | |

Stormwater Lift Stations Budget (STORM-020)

| | | | |
|--|--------------|-----------|------------------|
| Investment Year | 2027 | \$ | - |
| | 2028 | | 46,900 |
| | 2029 | | 63,000 |
| | 2030 | | 366,800 |
| | 2031 | | 516,800 |
| | 2032 | | 250,000 |
| | 2033 | | - |
| | 2034 | | - |
| | 2035 | | - |
| | 2036 | | - |
| | Total | \$ | 1,243,500 |
| See Capital Project Worksheet for details. | | | |

Operational Impacts: No

Associated Operating Business Case &/or Capital Project Charters: NA

CAPITAL PROJECT WORKSHEET

Wastewater Lift Station Budget (WASWT-020)

| Project Component | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---------------------------------|------|---------|---------|-----------|-----------|---------|------|------|------|------|
| SCADA Master Plan | | | | | 150,000 | | | | | |
| Study | | 349,900 | | | | | | | | |
| Detailed Planning and Design | | | 440,800 | | | | | | | |
| Site Servicing | | | | | | | | | | |
| Structure/Building Construction | | | | 1,652,400 | 1,685,400 | 250,000 | | | | |
| Landscaping | | | | | | | | | | |
| Construction Management | | | | 85,000 | 85,000 | | | | | |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | | 46,300 | 58,400 | 243,900 | 243,900 | | | | | |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| TOTAL | - | 396,200 | 499,200 | 1,981,300 | 2,164,300 | 250,000 | - | - | - | - |

Stormwater Lift Stations Budget (STORM-020)

| Project Component | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 |
|---------------------------------|------|---------------|---------------|----------------|----------------|----------------|------|------|------|------|
| SCADA Master Plan | | | | | 150,000 | | | | | |
| Study | | 37,900 | | | | | | | | |
| Detailed Planning and Design | | | 54,000 | | | | | | | |
| Site Servicing | | | | | | | | | | |
| Structure/Building Construction | | | | 289,200 | 289,200 | 250,000 | | | | |
| Landscaping | | | | | | | | | | |
| Construction Management | | | | 32,400 | 32,400 | | | | | |
| Commissioning and QA/QC | | | | | | | | | | |
| Contingency | | 9,000 | 9,000 | 45,200 | 45,200 | | | | | |
| Public Participation Activities | | | | | | | | | | |
| Equipment | | | | | | | | | | |
| TOTAL | - | 46,900 | 63,000 | 366,800 | 516,800 | 250,000 | - | - | - | - |

Comments: Increase in costs for 2027 is the addition of SCADA Master Plan updates and 8% engineering and construction costs.

Supplementary detail/ maps of charter focus areas: N/A