**Agenda – Standing Policy Committee on Finance and Economic Development – June 10, 2025** 

#### **REPORTS**

Item No. 2 NEWPCC Upgrade: Power Supply and Headworks Facilities,

Project ID: 2031001304, 2031001310 and 203110013B, Quarterly Project Status Report No. 39

For the Period Ended March 31, 2025

#### WINNIPEG PUBLIC SERVICE RECOMMENDATION:

That the financial status of the NEWPCC Upgrade: Power Supply and Headworks Facilities project, as contained in this report, be received as information.

### ADMINISTRATIVE REPORT

Title: NEWPCC Upgrade: Power Supply and Headworks Facilities,

Project ID: 2031001304, 2031001310 and 203110013B,

Quarterly Project Status Report No. 39 For the Period Ended March 31, 2025

Critical Path: Standing Policy Committee on Finance and Economic Development

#### **AUTHORIZATION**

Author	Department Head	CFO	CAO
C.D. Wiebe, P. Eng., CAMP, Manager Engineering Services	T. W. Shanks, M. Eng., P. Eng. Director, Water and Waste Department	T. Graham	S. Armbruster, Interim CAO

#### **EXECUTIVE SUMMARY**

Project On Schedule: Yes □	No ☑	Project On Adopted Budget: Yes	No ☑
Percent of Schedule Complete:	74%	Percent of Adopted Budget Spent:	64%

The amended Capital Budget for the North End Sewage Treatment Plant (NEWPCC) Upgrade: Power Supply and Headworks Facilities project is \$517.855 million. Expenditures to date are \$334.012 million, including a total of \$8.224 million incurred during this reporting period.

#### **Headworks Facilities**

Issued for Construction (IFC) design submission packages are complete.

During this reporting period, Red River Solutions (RRS) has focused on the following construction activities:

- Structural steel and concrete works for interior structures in the Raw Sewage Pumping Station
- Completing the final tunnel between the H1 and Y5 chambers
- Installing fine screens and roofing membrane in the Fine Screening area
- Process piping, electrical cabling, exterior cladding, and structural steel works in the Grit Building
- Installing the roofing membrane, exterior cladding, interior walls, and electrical cabling and equipment in the Solids Handling and Mechanical Rooms
- Installing electrical panels, exterior lighting fixtures, and interior walls in the Main Control Building

A total of 113 milestones have been reviewed and paid to the contractor, including six this reporting period.

An additional \$1.23 million was approved to RRS's contract for the replacement of existing water mains within NEWPCC to maintain fire protection for existing structures.

The project team and RRS continue to discuss the claim for cost increases for labour, material, equipment, and subcontractors. The Public Service is working with external legal and contract experts to confirm the final strategy to consider or defend these claims. The claim presents financial risk in the range of tens of millions of dollars. Any resolution is expected to exhaust the remaining project contingency, so a budget amendment will likely be required for this claim.

An additional \$300,000 was approved for work associated with potential archaeological finds including a contingency allowance for future heritage monitoring should more artefacts be encountered at the NEWPCC site.

An additional \$1.65 million was approved to the contract with the Owners Advocate Engineer for additional consulting services due to extension of the Headworks Facilities project. Owner-controlled insurance was also extended due to the extension of the Headworks Facilities project.

The new Headworks Facility is expected to be complete in Q2 2026.

#### **Distributed Control System (DCS) Migration**

The Grit area was migrated and the System Integrator is working on the closeout documentation. The control panel for the primary clarifiers, the second area to be migrated, is built and on-site. The General Construction Contractor is installing the control panel and is working on the pre-wiring of the new cables.

The DCS Migration is expected to be complete in Q4 2027.

#### **Primary Clarifier Upgrade**

The design modifications for the construction of a Scum Dewatering Building are complete. A construction tender has been posted and is scheduled to close in April 2025.

The Primary Clarifier Upgrade is expected to be complete in Q3 2027.

#### **Ultraviolet Light (UV) Upgrade**

The design is complete for the UV Upgrade. A construction tender has been posted and is scheduled to close in May 2025.

Trojan Technologies ULC is constructing the UV equipment to be supplied.

A tender for the supply of gates was awarded. Motor control centres (MCCs) have been ordered under the existing standardized agreement. The gates and MCCs were procured separately as they are long lead time items.

The UV Upgrade is expected to be complete in Q4 2026.

#### **NEWPCC Upgrade Audit**

KPMG presented the audit report on the three NEWPCC Upgrade projects to the Executive Policy Committee in January 2025. The Public Service is actively engaged in addressing and implementing the audit recommendations.

Following on audit recommendations, authority to approve contract over-expenditures for the Owner's Advocate Engineer contract was delegated to the Public Service.

KPMG has started developing a fit-for-purpose governance structure for the NEWPCC Upgrade projects. The governance structure is anticipated to be considered by Council in Q3 2025.

The Advisory Committee has reviewed this report and recommends that the report be sent to the Standing Policy Committee on Finance and Economic Development.

#### **RECOMMENDATIONS**

That the financial status of the NEWPCC Upgrade: Power Supply and Headworks Facilities project, as contained in this report, be received as information.

#### REASON FOR THE REPORT

Major Capital Projects are required to report quarterly to the Standing Policy Committee on Finance and Economic Development. The threshold for reporting is reviewed at the beginning of each multi-year budget cycle and revised, if required, for Council consideration. For the 2024-2027 multi-year budget cycle Council approved that the threshold be maintained at \$25 million. The Standing Policy Committee on Finance and Economic Development may also request reporting on any capital project.

#### IMPLICATIONS OF THE RECOMMENDATIONS

No implications.

#### HISTORY/DISCUSSION

See Appendix C – Key Project Events (History)

**Construction** (Update from last report)

**NEWPCC Upgrade: Power Supply and Headworks Facilities** 

Headworks Facilities Design Build Execution

**Request for Proposal (RFP) 659-2018B:** Issued for Construction (IFC) design submission packages are complete.

Significant construction continues on site. Highlights include:

- Concrete pours for interior structures of the Raw Sewage Pumping Station continue.
   Piping supports and building steel structure are complete. Installation of cable trays, electrical conduits, wiring, and light fixtures in the stairwell is ongoing.
- Tunneling between the H1 and Y5 chambers is complete. Construction inside the H1 Chamber is ongoing with multiple concrete pours to occur over several months.
- Fine screens and roof membrane have been installed in the Fine Screening Area.
   Installation of cable trays, cables, lighting, and exterior wall insulation and membrane is ongoing.
- Grit Building pipe supports, process piping, electrical cable trays, cables and steel structure and exterior cladding installation is ongoing.
- Roofing membrane for the Solids Handling and Mechanical Rooms was installed.
   Installation of exterior wall insulation, metal cladding, and interior walls is ongoing.
   Installation of transformers, cable trays, conduit, cables, control panels, and switches is also ongoing.
- Construction of the interior walls and application of firestopping in the Main Control Building is ongoing. Installation of electrical panels and exterior lighting fixtures is ongoing.
- Installation of medium voltage power distribution cabling, cables trays, and lightning protection in the Standby Power Generator Facility is complete.

Red River Solutions (RRS) has applied for a total of 113 milestone inspections to the Independent Certifier and all have been paid.

On February 3, 2025, the Standing Policy Committee on Water, Waste and Environment approved an additional \$1.23 million for the Headworks Facilities construction contract to replace existing water mains within NEWPCC to maintain fire protection for existing structures.

#### Relief Events under Discussion

The project team and RRS continue to discuss the claim for cost increases for labour, material, equipment, and subcontractors. The Public Service is working with external legal and contract experts to confirm the final strategy to consider or defend these claims. The claim presents financial risk in the range of tens of millions of dollars. Any resolution is expected to exhaust the remaining project contingency, so a budget amendment will likely be required for this claim.

#### Approved Relief Event Costs to Date:

Description:	Cost to Date
Contaminated soils (to date):	3.16 million <sup>1</sup>
Differing ground conditions:	8.16 million
3. Design Code Change:	2.03 million
4. Area E Shoring Underground:	0.04 million
Total:	13.39 million

<sup>&</sup>lt;sup>1</sup> The total cost of contaminated soil remediation will increase as excavation work continues.

**RFP 740-2022:** Peguis Consultation & Special Projects Inc. was hired to provide archeological and heritage monitoring services to comply with the Province of Manitoba's Heritage Resource Branch's requirements.

On March 31, 2025, the Director of Water and Waste approved an additional \$300,000 to the contract with Peguis Consultation and Special Projects Inc. for additional work associated with archaeological finds. This contract change also includes a contingency allowance for future heritage monitoring should more artefacts be encountered at the NEWPCC site.

**RFP 182-2015:** On February 3, 2025, the Standing Policy Committee on Water, Waste and Environment approved an additional \$1.65 million to the contract with the Owners Advocate Engineer for additional consulting services due to extension of the Headworks Facilities project.

**RFP 102-2017:** On February 3, 2025, the Director of Water and Waste approved an additional \$438,000 to the contract with Blakes for legal assistance related to contract and claims support. This contract will support the review of RRS' claim for cost increases in labour, material, equipment, and subcontractors.

**RFP 51-2022:** Owner-controlled insurance (Builders Risk and Wrap-Up Liability) for the Headworks Facilities project was extended at a cost of \$1.94 million. The extension was required due to the schedule delay associated with the NWI failure and the differing ground conditions. Owner-controlled insurance was also purchased for the tunnel boring machine at a cost of \$38,000.

Other Power Supply and Headworks Facilities Projects

#### **DCS Migration**

- RFP 76-2023: Schneider Electric Systems is working on the following integration tasks:
  - Finalizing closeout documents for the first area (Grit) that was successfully migrated.
  - Constructing and testing programmable logic controller (PLC) panels for areas D (Digesters) and B (Boilers).
  - o Developing the PLC and HMI programs for area P (Primaries).
- Tender 385-2023: Centec Electric and Controls is working on the following tasks:
  - o Pre-wiring and installation of the PLC panel for area P (Primaries).
  - o Installing wireless access points in all existing control rooms.
  - Reviewing the commissioning plan for area P (Primaries).

#### **Primary Clarifier Upgrade**

- RFP 785-2020: The design modifications for the Scum Dewatering Building are complete.
- **Tender 721-2024:** The construction tender is posted and scheduled to close in April 2025. This tender replaces tender 463-2022.
- Tender 1003-2022: Shop drawing review is complete and equipment to be supplied is ready for manufacturing by Fournier Industries. Fabrication will be authorized upon award of tender 721-2024.

#### **UV** Upgrade

- **RFP 182-2015:** Design is complete and the construction tender has been posted. Ongoing work includes pre-purchasing gates and MCCs and monitoring delivery times.
- Tender 30-2025: The construction tender is posted and scheduled to close in May 2025.
- **Tender 975-2023:** Trojan Technologies is manufacturing the equipment to be supplied.
- **Tender 1015-2025:** A tender for the supply of gates has been awarded. The gates were procured separately as they are a long lead time item.
- **Tender 756-2013:** Motor control centres (MCCs) have been ordered under the existing standardized agreement. They were procured separately as they are a long-lead-time item.

Table 1 – Contracts

		Contracts (Open or F	Rece	ntly Closed Cont	ract	s over \$250,00	0.00)																														
Bid Opportunity #	Company Name	Description		Original ntract Award Value ST & MRST extra as applicable)	Total Approved Over- Expenditures (Over-Expenditure amount only)		Over- Expenditures (Over-Expenditure		Expenditures (Over-Expenditure		Over- Expenditures (Over-Expenditure		Date of Award	Date of Total Completion	Estimated % Complete																						
182-2015 (Phase 2)	AECOM Canada Ltd	Engineering Services for Headworks Upgrade – Phase 2	\$	7,992,827	\$	1,654,424.00	8-Oct-2020	-	54																												
182-2015 (DCS Migration)	AECOM Canada Ltd	Engineering Services – DCS Migration	\$	2,698,331	\$	-	8-Oct-2020	-	58																												
182-2015 (UV Upgrade) <sup>1</sup>	AECOM Canada Ltd	Engineering Services – UV Upgrade	\$	3,503,000	\$	-	30-Oct-2023	-	39																												
102-2017 <sup>1</sup>		External Legal Counsel - NEWPCC Upgrade Project	\$	387,504	\$	468,125.00	23-Nov-2017	-	26																												
659-2018 B <sup>1</sup>	Red River Solutions	Design Build of NEWPCC Upgrade: Headworks Facilities	\$	271,611,000	\$	56,971,909.00	11-Jun-2021	-	74																												
785-2020	AECOM Canada Ltd	Engineering Services - Primary Clarification Upgrades	\$	2,166,775	\$	1,623,375.00	7-Jun-2021	-	48																												
64-2021 <sup>2</sup>	Altus Group Limited	Independent Certifier Services	\$	274,350	\$	-	21-Jul-2021	-	75																												
92-2022 <sup>1</sup>		NEWPCC DCS Migration - Fibre Supply and Installation	\$	1,333,196	\$	-	16-Jun-2022	-	99																												
740-2022	Peguis Consultation & Special Projects Inc.	Archaeological and Environmental Monitoring Services	\$	75,000	\$	475,000	31-Aug-2022	-	44																												
1003-2022 <sup>1</sup>	Fournier Industries	NEWPCC Primary Clarifiers - Procurement of Scum Presses and Associated Controls	\$	1,155,405	\$	-	2-May-2023		10																												
76-2023 <sup>1</sup>	Schneider Electric Systems Canada Inc.	DCS Migration - Integrator Supply and Services	\$	11,950,000	\$	-	27-Nov-2023	-	28																												
385-2023 <sup>1</sup>		DCS Migration - General Construction	\$	3,925,375	\$	-	6-May-2024	-	10																												
975-2023 <sup>1</sup>	Trojan Technologies ULC	UV Upgrade - Supply of Ultraviolet Disinfection Equipment	\$	7,283,811	\$	-	6-May-2024	-	20																												
756-2013 (Extension 2) <sup>1</sup> / PO 737847	EECOL Electric	LIV Ungrade - Supply of	\$	460,100	\$	-	12-Dec-2024	-	0																												
1015-2025	Flocor Inc.	UV Upgrade - Supply of Slide Gates and Weir Gates for Wastewater	\$	421,500	\$	-	20-Feb-2025	-	0																												
51-2022	BFL Canada Risk and Insurance Services Inc.	Owner-Controlled Insurance	\$	1,979,639	\$	-	4-Nov-2022	-	1																												
		Total	\$	317,217,812.96	\$	61,192,833																															

<sup>&</sup>lt;sup>1</sup>The Original Contract Award Value includes MRST.

#### Upcoming Procurements:

Description	Anticipated Award Date
Primaries - Scum Dewatering Building	Q2 2025
UV Construction	Q2 2025

<sup>&</sup>lt;sup>2</sup>This is a biparty agreement with cost shared equally between the design builder and the City. Only the amount related to City is indicated.

#### **Schedule** (Update from last report)

Completion dates for the Primary Clarifier Upgrade and UV Upgrade have been updated in Table 2.

Table 2 – Milestones

	Project Milestones									
	Deliverable		Revised Targeted Completion Date	Actual Completion Date	Estimated % Complete					
Headworks Facilities										
1	Project Definition Report <sup>1</sup>	2017 Q2	2017 Q2	2017 Q2	100					
2	Preliminary Design Report	2018 Q1	2018 Q3	2018 Q3	100					
3	Cost Report <sup>2</sup>	2018 Q3	2018 Q3	2018 Q3	100					
4	Design Build RFP	2020 Q1	2020 Q1	2020 Q1	100					
5	Design Builder Contract Award	2020 Q4	2021 Q2	2021 Q2	100					
6	Design Build Substantial Completion	2025 Q4	2026 Q1	-	79					
7	Design Build Final Completion	2026 Q4	2026 Q2	-	76					
8	DCS Migration Substantial Completion	2027 Q4	-	-	45					
9	Primary Clarifier Upgrade Substantial Completion	2023 Q4	2027 Q2	-	-					
10	UV Upgrade Substantial Completion	2026 Q4	-	-	-					

<sup>&</sup>lt;sup>1</sup>Owner's Advocate Class 5 Estimate

### **Risk** (Update from last report)

SMA Consulting has been engaged to conduct a quantitative risk assessment for the Headworks project and the project team has been conducting monthly risk reviews in alignment with the audit recommendations.

The following new risks were identified in this reporting period:

- Headworks Tariffs: A relief event notice has been received from RRS regarding tariffs
  and their potential cost impacts on the project. RRS is in the process of determining
  outstanding equipment and material that may be subject to tariffs. This risk was
  previously identified in Table 3 as general ongoing risk, however, now that a notice has
  been received, has been moved to the new risk section.
- New Heritage Resource Finds: There is potential for heritage resources to be
  encountered in the remaining excavations which would require a work stoppage with
  potential cost and schedule impacts. Peguis Consultations and Special Projects has
  completed archaeological test pitting in advance of excavation where possible and is
  engaged to provide heritage resources monitoring services as needed.

The following are updates for ongoing risks:

 The modifications to the existing NEWPCC plant Grit Area for this low flow period (2024/2025) were completed sooner than planned as no significant issues arose during the work. The project team is looking at options to undertake the 2025//2026 low flow

<sup>&</sup>lt;sup>2</sup>Cost Consultant Class 3 Estimate

period work earlier to mitigate potential schedule impacts.

- The project team and RRS continue to discuss the claim for cost increases for labour, material, equipment, and subcontractors. External legal and a quantification expert have been engaged. A budget amendment will likely be required for this claim.
- The project team will determine if there are any project deferrals or budget amendments required once the tenders for the Primary Clarifier Upgrade and/or the UV Upgrade close.

Table 3 – Significant Risks and Mitigations Strategies

NEWPCC Upgrade: Power Supply and Headworks Facilities Project							
Significant Risks and	Mitigation Strategies						
Headworks Facilities							
Risk Statement and Explanation	Risk Mitigation Management Plan						
New:  RRS has submitted a relief event notice regarding tariffs and their potential cost impacts on the project.	Project requirements include tariffs within the definition of change in law which would be treated as a relief event if it occurs. Determine outstanding equipment and material that may be subject to tariffs. Determine if alternate country of origin sources exist that meet quality requirements and supply timelines. A budget amendment may be required for this risk.						
Potential for heritage resources to be uncovered during excavation resulting in work stoppages and cost and schedule impacts.	Conduct archaeological test pitting of excavation areas in advance. Engage heritage resource monitors as required.						
Ongoing:  Delays in access to the existing Grit Area to complete tie-in work which may affect the commissioning schedule for the new Headworks Facility.	Consider options to allow access to the existing Grit Area earlier to mitigate potential schedule impacts.						
RRS has submitted a claim for cost increases for labour, material, equipment and subcontractors.	Review claims as they occur and determine if there is entitlement to relief under the Design Build Agreement. A budget amendment will likely be required for this claim.						
Potential for insufficient budget to complete the NEWPCC Primary Clarification Upgrade Project.	An expression of interest was issued to confirm market capacity for the work and to notify potential bidders of the upcoming tender. City issued a new tender with a revised scope of work. A budget amendment or deferral of project may need to be considered as pricing is likely higher than original budget.						
Budget and schedule risks associated with the NWI failure.	A budget amendment was approved for the additional costs associated with the NWI failure. The City is working with insurers to determine level of coverage.						
	The delay associated with the NWI failure has extended the overall project schedule and the date of substantial completion has been revised. There is potential this may cause coordination issues with future construction projects. Close coordination with other projects is being undertaken.						
Impacted soils were discovered by RRS during soil stripping and early excavating work. More impacted soils may be uncovered during next phases of excavation.	Disposal locations for impacted soils have been identified as GFL or Prairie Green depending on the level of contaminant.  Disposal plans have been reviewed and approved by the Province. Transportation of impacted soil to disposal sites is in progress. Site delineation plan and Phase 2 environmental soil sampling testing will be conducted for any future impacted soils discovery. The project team will investigate the lowest cost options for soil disposal if required.						
Bid prices for other contracts within the Headworks Facilities budget may be higher due to existing market conditions as result of the pandemic.	Scope reduction options will be evaluated and included in the tender documents prior to issuing tender documents to the public. A budget amendment or deferral of project may need to be considered.						

Due to multiple construction activities occurring at NEWPCC and	There is regular communications between project managers and
construction work occurring in a congested site, limited site	consultants to ensure regular coordination of projects at
access and schedule conflicts/delays may occur affecting tie-ins	NEWPCC.
and shutdowns during construction.	
NEWPCC is a continuously operating sewage treatment plant, the	Project requirements include details on how the design builder
design builder may cause unintended shut downs or disruptions	coordinates with the City prior to tying in to the existing plant.
resulting in failure to meet the Environment Act Licence.	Payment adjustments are included in the contract if unintended
	shut downs or disruptions occur.
There could be excess noise, dust, and light during construction	The project requirements include construction requirements
as a result of the project.	related to noise. The design builder is also required to have a
as a result of the project.	community impact mitigation plan to avoid such issues.
Due to construction occurring around existing infrastructure,	Project requirements include detailed requirements for working
destabilization or damage to existing structures may occur	around existing infrastructure.
resulting in increased costs and potential schedule delays.	ů
Accidents may occur on an active project construction site	Project requirements includes details on safety measures and
resulting in injuries and damaged property causing project delays	the design builder is required to be COR certified.
and reduction in productivity.	and accign wanted to be controllinear
There may be unknown conditions that may be associated with	The DB agreement includes mechanism to deal with unforeseen
reusing existing facilities.	conditions of existing facilities.
Unknown existing conditions related to geotechnical,	Geotechnical investigations and environmental impact
environmental, and hazardous material may be encountered	assessments are being carried out prior to construction to
during construction causing schedule delays and additional costs.	minimize unknowns.
anning contention caucing contention actually carte administration contention	
Mitigated:	
Risk of failure of the Main Street Interceptor during construction.	A steel liner was installed within the Main Street Interceptor to
	minimize the risk of the interceptor failing during construction.
The existing automation system requires migration to an updated	This risk is best handled by the City; as a result, the scope was
automation system as it is at end of life. Due to the age, there	separated as a stand alone design bid build project. This risk
may be unforeseen circumstances resulting in quality issues,	also requires knowledgeable and qualified personnel. As part of
schedule delays and operational impacts.	Phase 2 of their existing contract, the design consultant will
	carry out the work due to their qualifications and extensive
	knowledge and experience on the existing automation system.
	knowledge and experience on the existing automation system.
Closed:	knowledge and experience on the existing automation system.
Closed: The standard good equipment provider has stated a significantly	
The standard good equipment provider has stated a significantly	The standardized agreement for motor control centres was
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The standard good equipment provider has stated a significantly increased price and delivery timeline for motor control centers (MCC).	The standardized agreement for motor control centres was renewed after the award of the Headworks project and has affected the standardized pricing. An over-expenditure was considered in November 2024 for this item.
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<sup>\*</sup> Not every risk need be disclosed but those significant in nature to the project should be disclosed and monitored. Risks should be in order from higher to lower assessed risk and revised on an ongoing basis.

## **<u>Financial</u>** (Update from last report)

For further information, refer to Appendix B – Financial Forecast

The City continues to work with their insurers to determine the level of coverage for the NWI failure. An advance of \$3.0 million has been received to date for the claim.

### **Funding** (Update from last report)

N/A

Table 4 – Project Funding Forecast

Funding Forecast										
Funding Source	Adopted Budget <sup>1</sup> (in millions)	Amended Budget <sup>2</sup> (in millions)	Committed (in millions)							
Class of Estimate	Class 5	Class 3	Class 3							
NEWPCC Upgrade: Power Supply Retained Earnings 7		20.03	20.03							
Environmental Projects Reserve 7		32.25	32.25							
Total Power Supply		52.28	52.28							
Headworks Facilities Retained Earnings <sup>6</sup> External Debt <sup>3</sup> , <sup>6</sup>	87.64 690.29	87.08 147.72	87.08 147.72							
Environmental Projects Reserve <sup>3, 4</sup>	17.66	17.91	17.91							
Federal Government 3,5		116.11	116.11							
Provincial Government <sup>3, 5</sup> Total Headworks Facilities	795.59	96.75 465.57	96.75 465.57							
Total	795.59	517.85	517.85							

<sup>&</sup>lt;sup>1</sup> Council adopted budget in 2016

#### **Property Acquisition** (Update from last report)

N/A

<sup>&</sup>lt;sup>2</sup> On February 28, 2019 Council approved the existing project be amended to consist of three projects. Project 1: Power Supply and Headworks Facilities; Project 2: Biosolids Facilities; Project 3: Nutrient Removal Facilities.

<sup>&</sup>lt;sup>3</sup> In a letter dated April 1, 2021, the Province of Manitoba confirmed that funding for Headworks Project would be reduced to \$96.749 million from \$100.300 million (Province) and to \$116.111 million from \$120.373 million (Federal), resulting in an increase of \$7.813 million to the City's share of costs.

<sup>&</sup>lt;sup>4</sup> On May 27, 2021 Council approved a budget increase of \$65 million funded by \$32.5 million debt and \$32.5 million Environmental Projects Reserve.

<sup>&</sup>lt;sup>5</sup> On July 23, 2021 Federal and Provincial ICIP funding of \$212.86 million was announced for the Headworks Project.

<sup>&</sup>lt;sup>6</sup> On February 22, 2024 Council approved a budget increase of \$65 million funded by \$25 million debt and \$19.475 million Retained Earnings.

<sup>&</sup>lt;sup>7</sup> Major Capital Projects Steering Committee requested that the Power Supply project and other work considered ineligible for Provincial and Federal funding be reported separately.

#### **Stakeholder Engagements/Communications** (Update from last report)

The City continues to work with a number of stakeholders on this project including:

- Peguis First Nation regarding the cultural interest in the NEWPCC lands
- The Manitoba Government as the Provincial Regulator
- The International Institute for Sustainable Development, Lake Winnipeg Foundation, and Lake Winnipeg Indigenous Collective as environmental stakeholders

#### **<u>Audit</u>** (Update from last report)

KPMG presented the audit report on the three NEWPCC Upgrade projects to the Executive Policy Committee on January 21, 2025. The Public Service is actively implementing a number of the audit recommendations. The quarterly Implementation of Audit Recommendation Reports can be found here: <a href="https://winnipeg.ca/audit/reports.stm#tab-QuarterlyReports">https://winnipeg.ca/audit/reports.stm#tab-QuarterlyReports</a>

On February 27, 2025, Council approved delegation of authority to approve contract over-expenditures for the NEWPCC Upgrade: Power Supply and Headworks Facilities projects and over-expenditures for the Owner's Advocate Engineer (RFP No. 182-2015). This report followed from audit recommendations 2: Authority and Accountability and 40: Change Order Approval Timelines.

On March 18, 2025, a sole source contract was executed with KPMG to develop a fit-for-purpose governance structure for the NEWPCC Upgrade projects. KPMG is seeking input from the Public Service and City Councillors while developing the new governance structure. The final report from KPMG is anticipated in Q2 2025 and will be considered by Council in Q3 2025.

#### Subsequent Events after Report Period End Date

On April 16, 2025, Tender No. 721-2024 for the NEWPCC Primary Clarification Upgrade Project closed with five bids being received. The award for this project is in progress.

#### **FINANCIAL IMPACT**

Financial Impact Statement Date: May 14, 2025

**Project Name:** 

**NEWPCC Upgrade: Power Supply and Headworks Facilities,** 

Project ID: 2031001304, 2031001310 and 203110013B,

**Quarterly Project Status Report No. 39 For the Period Ended March 31, 2025** 

#### **COMMENTS:**

Financial forecast for the NEWPCC Upgrade Projects can be found in Appendix B.

Lucy Szkwarek, FCPA, FCGA

Lucy Szkwarek, FCPA, FCGA Manager of Finance and Administration

#### CONSULTATION

This Report has been prepared in consultation with:

N/A

#### **OURWINNIPEG POLICY ALIGNMENT**

This report aligns OurWinnipeg 2045, Policy 2.17 Regional Water Resource Management, by addressing long-term capacity of water-related systems including wastewater management. Objective: Protect and value ecosystems as essential components to quality of life through municipal activities and urban environment.

#### WINNIPEG CLIMATE ACTION PLAN ALIGNMENT

Consideration was given as to whether this report connects to the Winnipeg Climate Action Plan (CAP), and it was determined that the CAP is not applicable to this specific report

#### WINNIPEG POVERTY REDUCTION STRATEGY ALIGNMENT

Consideration was given as to whether this report connects to the Winnipeg Poverty Reduction Strategy (PRS) and its Goals and Objectives, and it was determined that the PRS is not applicable to this specific report.

#### **SUBMITTED BY**

**Department:** Water and Waste Department

**Division:** Engineering Services Division

Prepared by: Linda McCusker, Project Director

**Date:** May 21, 2025

#### **Appendices**

Appendix A – Key Project Facts

Appendix B – Financial Forecast

Appendix C – Key Project Events (History)

Appendix D - Funding

## Appendix A – Key Project Facts

Appendix A – Key Project Facts						
Ducia et Nama	NEWPCC Upgrade: Power Supply &					
Project Name	Headworks Facilities					
Business Owner (Department)	Water and Waste Department					
Project ID	2031001304, 2031001310, and 203110013B					
	D: ( ())( ( ))					
Project Sponsor	Director of Water and Waste					
Department Responsible for Project Delivery	Water and Waste Department					
Consultant Engineer	KGS Group Consulting Engineers and AECC					
Consultant Engineer	Canada Ltd.					
A	#705.05.NATE					
Adopted Budget	\$795.95 Million					
Class of Estimate (Adopted)	Class 5					
Bango of Estimate (Adented)	-50% to +100%					
Range of Estimate (Adopted)	\$397.80 million to \$1,591.18 million					
Amended Budget	\$517.855 million					
Class of Estimate (Amended)	Class 3					
Olass of Estimate (Americea)						
Range of Estimate (Amended)	-20% to +30%					
range of Estimate (Fineliaea)	\$414.284 million to \$673.212 million					

#### **Project Scope**

The Power Supply and Headworks Facilities projects will address end-of-life equipment at the front end of the plant and upgrade the power supply to provide adequate power capacity for the NEWPCC Upgrade Projects. The Project design will accommodate expected influent flows and loads to 2037 and take into account future regulatory trends and long term planning to year 2067.

#### **Major Capital Projects Advisory Committee Membership:**

- Matt Dryburgh, Interim Deputy Chief Administrative Officer
- Tracy Graham, Chief Financial Officer
- Geoffrey Patton, Director of Assets and Project Management
- Danny Tooth, Acting Manager of Major Project Oversight
- Tim Shanks, Director of Water and Waste
- Cynthia Wiebe, Manager of Engineering Services, Water and Waste
- Lucy Szkwarek, Manager of Finance and Administration, Water and Waste
- Linda McCusker, Project Director, Winnipeg Sewage Treatment Program, Water and Waste

## **Appendix B – Financial Forecast**

## Appendix B - North End Sewage Treatment Plant (NEWPCC) Upgrade Projects Financial Forecast As of Mar 31, 2025

			Budget (in 000	's)		Expenditure Forecast (in 000's) Surplus								
Project Component Deliverables	_	Adopted Coun	Council	Amended	Actual Costs		Pro	ojected Costs			Total	(Deficit)	Variance	Change
		Budget	Approved	Budget <sup>1</sup>	То						Forecasted	From Amended	Last Report	in Variance
			Change	, ,	Mar 31, 2025	2025	2026	2027	2028	2029	Costs	Budget		
													<b>l</b> '	
													<b>l</b> '	
Power Supply & Headworks Facilities Project <sup>2</sup>														
Engineering, Design and Other	\$	57,196	\$ (2,959	) \$ 54,237	\$ 40,368	\$ 5,024 \$	7,438 \$	3,260 \$	168 \$	-	\$ 56,258	\$ (2,021)	\$ (70)	\$ (1,951)
Construction	\$	621,011	\$ (225,299	) \$ 395,712	\$ 288,742	\$ 79,797 \$	48,185 \$	15,375 \$	1,072 \$	-	\$ 433,171	\$ (37,459)	\$ (35,045)	\$ (2,414)
Land Acquisition	\$	-	\$ -	\$ -	\$ -	\$ - \$	- \$	- \$	- \$	-	\$ -	\$ -	\$ -	\$ -
Internal Financing/Overhead Costs	\$	-	\$ 21,718	\$ 21,718	\$ 4,902	\$ 4,761 \$	1,561 \$	8,462 \$	820 \$	-	\$ 20,506	\$ 1,212	\$ 1,252	\$ (40)
Contingency	\$	117,383	\$ (71,195	) \$ 46,188					\$	7,920	\$ 7,920	\$ 38,268	\$ 33,863	\$ 4,405
													<b>l</b> '	
Total Project Budget	t \$	795,590	\$ (277,735	) \$ 517,855	\$ 334,012	\$ 89,582 \$	57,184 \$	27,097 \$	2,060 \$	7,920	\$ 517,855	\$ -	\$ -	\$ -

% of Project Budget Spent <sup>3</sup>	
Power Supply & Headworks Facilities	64%

<sup>&</sup>lt;sup>1</sup>Amended budget and actual costs to date have been agreed to the City's general ledger and Monthly Capital Expenditures Report and include closed budget years

		Amount in '000's					
Project ID	Project Year	Amended Budget	Costs to Date				
20310013044	2004	\$214	\$214				
2031001310 <sup>4</sup>	2010	\$305	\$305				
203110013B	2012 – 2021	\$517,336	\$333,493				
Total Combined Project Budget		\$517,855	\$334,012				
Breakdown by	Project						
Ineligible Costs	including Power						
Supply Project <sup>6</sup>		\$52,281	\$52,281				
Headworks Facilities Project <sup>5</sup>		\$465,574	\$281,212				

<sup>4</sup>Does not appear in the Capital Expenditures Monthly Report as the funds have been

expended and it is designated as a closed Project ID.

<sup>5</sup>Headworks Facilities Project is segregated for reporting purposes.

<sup>6</sup>Cost incurred before ICIP project approval date of May 28, 2021 are deemed ineligible.

<sup>&</sup>lt;sup>2</sup>On May 27, 2021, Council approved a budget increase of \$65M; On February 22, 2024 Council approved a budget increase of \$44.475M

<sup>&</sup>lt;sup>3</sup>Actual costs to date / Amended budget

## **Appendix C – Key Project Events (History)**

#### THE PROJECT

The goal of this project is to upgrade the North End Sewage Treatment Plant (NEWPCC) to meet new Regulatory Licence requirements regarding the maximization of nutrient removal and biosolids reuse and new effluent limits for nitrogen and phosphorous. The upgrade will also add wet weather treatment capability; add a new facility to treat the sludge from all three plants; and replace end-of-life equipment. The Project design will accommodate expected influent flows and loads to 2037. It will also consider future regulatory trends and long-term planning to the year 2067 to facilitate effective process or facility modifications should they be required.

A new power sub-station is required at the NEWPCC to accommodate the additional power demand of the upgrades at the facility. The power supply upgrade was delivered as a separate project from the main NEWPCC upgrade to allow for early procurement of long-lead items, such as transformers, to ensure that the electrical power upgrade is available for the new processes when needed.

The delivery method for NEWPCC Power Supply and Headworks Facilities Upgrade Projects is largely design build (DB) with a small scope being procured as design bid build (DBB).

The upgraded facility will have an economical whole-life cost and be an efficient and safe workplace for operational personnel. In addition, the plant must operate continuously during the work and continue to meet current effluent limits. The impact of construction and commissioning to the capacity of the treatment facility will be minimized as much as possible.

In 2003 Clean Environment Commission Hearings on the City's wastewater collection and treatment systems, Manitoba Conservation and Water Stewardship (now Manitoba Sustainable Development, the Regulator) notified the City that it intended to issue a licence for the NEWPCC that would require control of nutrients discharged to the Red River.

On May 16, 2007, Council authorized the Chief Administrative Officer to finalize the terms and conditions of a contribution agreement with the Government of Canada and the Province of Manitoba for funding of Wastewater Treatment Plant upgrades under the Canada Strategic Infrastructure Fund (CSIF).

On November 19, 2008, City Council authorized the Winnipeg Public Service to:

- Begin the procurement of a strategic partner that could bring private sector experience to the design, construction, finance, and potentially the operation of the North and South End Sewage Treatment Plants as well as potential operation of the West End Sewage Treatment Plant
- Authorize the Chief Administrative Officer to approve and issue the Request for Expressions of Interest followed by a Request for Qualifications and the Request for Proposals

On May 6, 2009 the Environment Act Licence (EAL) No. 2684 RRR was issued for the NEWPCC.

On May 19, 2010 Council:

- Directed the Chief Administrative Officer to approve and issue a Letter of Notification to Veolia in order to immediately begin design and construction of the South and North End Sewage Treatment Plant upgrades and expansion and biosolids handling facility
- Delegated the authority to the Chief Administrative Officer to "approve contract awards for upcoming South and North End Sewage Treatment Plant capital projects where the value of each contract does not exceed \$30 million and there are sufficient funds in a budget approved by Council

On June 16, 2011, the Save Lake Winnipeg Act amending sections of the Water Protection Act (Act) came into effect. Section 4.2(3) of the amended Act required the City to submit a plan that details how the City will comply with subsections 4.2(1) and (2).

The NEWPCC Upgrading Plan was submitted to the Regulator in compliance with Section 4.2(3) of the amended Water Protection Act on June 15, 2012. The Regulator approved the Upgrading Plan on October 2, 2012. The Department submitted the NEWPCC Master Plan and the revised NEWPCC Master Plan on September 27, 2013 and April 28, 2014 respectively. The Master Plan was approved by the Regulator on May 29, 2014.

In the Regulator's Licence alteration Letter dated December 30, 2014, the project completion date was specified as December 2019. However, the Regulator was notified on June 23, 2016 that the project schedule was not achievable. Manitoba Sustainable Development acknowledged receipt of this notice on August 16, 2016 and indicated they had "no concerns at this time." Regular schedule updates and progress reports continue to be submitted to Manitoba Sustainable Development on a quarterly basis.

In the second quarter of 2017, the Department reported that an updated conceptual design project cost estimate was received from the design consultant. This new information indicated costs over a billion dollars, much higher than the currently approved budget of \$795.59 million (Class 5 estimate).

The Adopted Budget, \$795.59 million, was based on a Class 5 cost estimate which has an Association for the Advancement of Cost Engineering (AACE) expected accuracy range of -50% and + 100% or \$397.80 million to \$1,591.18 million.

On February 28, 2019, Council approved the recommendation to split the planned NEWPCC Upgrade Project into three distinct projects and execute them based on process criticality and available funding. The recommendation to Council requested approval to proceed with the project scope for Power Supply and Headworks Facilities. Other levels of Government funding for the remaining projects to complete the plant upgrade are required.

The three capital projects and Class 3 cost estimates (including interest charges) to complete the NEWPCC Upgrade are identified as:

- 1. NEWPCC Upgrade: Power Supply and Headworks Facilities \$473 million
- 2. NEWPCC Upgrade: Biosolids Facilities \$1.035 billion (revised from \$553 million)

#### 3. NEWPCC Upgrade: Nutrient Removal Facilities - \$828 million

The total budget to upgrade NEWPCC is approximately \$1.854 billion; based on a class 3 cost estimate which has an AACE expected accuracy range of -20% and +30% or \$1.48 billion to \$2.41 billion. This amount includes an estimated \$155 million in interest charges to be capitalized during the construction period. The total budget was updated from \$1.789 billion to \$1.854 billion as a result of the budget amendment increase of \$65 million for the NEWPCC Upgrade: Power Supply and Headworks Facilities Capital Budget. The budget increase was approved by Council on May 27, 2021.

On December 5, 2019, a response was received from Manitoba Conservation and Climate, Environmental Approvals Branch with regards to the Notice of Alteration (NOA) for NEWPCC submitted by the City July 30, 2019. The response indicated that the NOA was not approved and that the City will be out of compliance with the Environmental Act Licence 2684 RRR and with the phosphorus compliance plan pursuant to the Water Protection Act in January 1, 2020. In the absence of an approved phosphorus compliance plan, the City was required to participate in two project committees namely; the Project Steering Committee and Project Advisory Committee.

On September 26, 2019, Council approved a 2019 capital project budget of \$552.712 million, for NEWPCC Upgrade: Biosolids Facilities, subject to final written confirmation of federal and provincial funding satisfactory to the Chief Financial Officer.

On January 30, 2020, Council approved \$15.334 million from the Biosolids Facilities Budget to commence engineering services.

On February 19, 2020, Minister Squires sent a letter to the Mayor indicating that additional funding of \$21.8 million is an initial payment to be allocated to the NEWPCC Upgrade Project under any potential ICIP arrangements, along with the previous allocation of \$34.4 million for a total of \$56.2 million.

On September 20, 2020 Council approved that the City agree to transfer \$321.24 million of Federal Government's funding under the ICIP from the Public Transit Infrastructure Stream to the Green Infrastructure Stream to fund the Federal Government's funding portion for the NEWPCC Upgrade: Headworks Facilities Project and the NEWPCC Upgrade: Biosolids Facilities Project as per the Province of Manitoba's requirement, subject to certain conditions.

The design build of the NEWPCC Power Supply Project was substantially completed in Q4 2020.

On March 25, 2021, Council adopted that:

- The Government of Canada and the Province of Manitoba be requested to provide confirmation of approval of ICIP for the NEWPCC Upgrade Projects: Headworks Facility Project and Biosolids Facility Project
- The Province of Manitoba be requested to confirm the City's recommended procurement methodology for the Biosolids Facility Project
- The Public Service be directed not to proceed with detailed engineering design for the Biosolids Facility design-bid-build project, in the amount of \$15.334 million, as approved

by Council on January 30, 2020, until such time as the confirmation requested in recommendations 1 and 2 have been received

In a letter dated April 1, 2021, the Province of Manitoba confirmed that funding for the Headworks Project will be reduced to \$96.749 million from \$100.300 million (Province) and to \$116.111 million from \$120.373 million (Federal). This means that the City's share of costs will increase by \$7.813 million as a result of the owner advocate costs incurred.

On May 18, 2021, the Executive Policy Committee concurred in the recommendation of the Public Service, as amended, that:

- The current Operation and Maintenance of Winnipeg's sewage treatment utility shall remain public and that the Operation and Maintenance not be included as part of the P3 market sounding
- That a single source contract be approved with Deloitte LLP of up to \$400,000 to conduct a market sounding for a Design, Build and Financing P3 for the Biosolids and Nutrient Removal facilities projects of the NEWPCC upgrades
- That the Public Service report back to Council on the results of the market sounding and analysis

On May 27, 2021, Council approved:

- Red River Solutions, an Aecon Oscar Renda Joint Venture, as the Preferred Proponent for the Design Build of the NEWPCC Upgrade: Headworks Facilities Project
- A budget amendment increases of \$65 million for the NEWPCC Upgrade: Power Supply and Headworks Facilities Capital Budget, to be funded 50/50 through utility rates and debt financing
- Review of the AACE Class 3 cost estimates for Biosolids and Nutrient Removal Facilities
  projects and refer any increases to the 2022 capital budget process; and to update the
  ten-year water and sewer financial plan and report back to Council in October 2021

On May 31, 2021, the NEWPCC Upgrade: Headworks Facilities was approved for Federal and Provincial funding under the ICIP – Green Infrastructure – Environmental Quality Substream, with Federal contributions up to \$116.111 million and Provincial Contributions up to \$96.750 million. Accordingly, the agreement for the design build of the NEWPCC Upgrade: Headworks Facilities was executed with RRS on June 11, 2021.

On July 23, 2021, a formal press release regarding the approval of funding through the ICIP application for the NEWPCC Upgrade: Headworks Facilities was carried out at the NEWPCC. All three levels of government were in attendance.

A joint news release by the Province of Manitoba and the City was issued on November 24, 2021 regarding the advancement of the City's funding application to the Federal Government of Canada for the NEWPCC Upgrade: Biosolids Facilities Project through the ICIP.

On February 24, 2022, Council approved that future tenders for the NEWPCC Upgrade Projects require bidders to include the following as part of their bid submissions:

 Specific information on its intended partnerships or self-directed plans to secure a skilled project labour workforce

- o Estimated numbers of and classifications of skilled tradespersons to be employed
- Specific commitments to engage skilled labour including targets for employment of Indigenous peoples and other under-represented groups within the Manitoba market

Proposed plans and partnerships with organizations to promote employment and training initiatives for Indigenous and other under-represented groups within the Manitoba market.

On July 21, 2022 the City Council approved:

- 1. That the NEWPCC Upgrade: Biosolids Facilities Project be delivered using a Design Build procurement model
- 2. That the revised cost estimate for the NEWPCC Upgrade: Biosolids Facilities Capital Budget be referred to the 2024-2027 Multi-Year Budget Process
- 3. That the \$15,334,000.00 2019 Capital Budget for the NEWPCC Upgrade: Biosolids Facilities, approved on January 30, 2020, as part of the 2020-2023 Water and Sewer Rate Report, be funded from the Environmental Projects Reserve rather than external debt

On August 16, 2022, a formal press release regarding the approval of funding through the ICIP application for the NEWPCC Upgrade: Biosolids Facilities was carried out at the NEWPCC. All three levels of government were in attendance.

On February 22, 2024, Council approved a \$44.475 million budget increase for the NEWPCC Upgrade: Power Supply and Headworks Facilities project due to costs associated with the Northwest Interceptor failure. The budget amendment brings the total project cost to \$517.855 million.

On February 27, 2025, Council approved delegation of authority to approve contract over-expenditures for the NEWPCC Upgrade: Power Supply and Headworks Facilities projects and over-expenditures for the Owner's Advocate Engineer (RFP No. 182-2015). This report followed from audit recommendations 2: Authority and Accountability and 40: Change Order Approval timelines.

#### **RISKS AND RISK MITIGATION STRATEGIES**

There are risks associated with the cost and schedule for a project that is this large and complex especially at the early stages. In addition, the final bid amounts for projects are unknown until the project agreement is finalized with the Design Builder.

An ongoing risk management strategy has been implemented for both the NEWPCC Upgrade Power Supply and Headworks Facilities Projects. It includes a proactive process of identifying risks, performing qualitative and quantitative risk analyses, creating response plan strategies, and ongoing monitoring. The risk management process is an active part of the management of the projects. The projects will also incorporate structured Hazard and Operability Analysis and a Construction Hazard Assessment Implication Review. Since detailed design and construction will be carried out through a DB contract, the Winnipeg Sewage Treatment Program will be identifying and transferring as much risk as reasonable to the Design Builder.

The Risk Registers for each of the Projects contain cost and schedule risks associated with design, procurement, construction, operation, and unknown events. This is reviewed and updated regularly.

# Appendix D North End Sewage Treatment Plant (NEWPCC) and Winnipeg Sewage Treatment Program (WSTP)

#### 1) Funding for the NEWPCC is as follows:

NEWPCC Upgrade		Funded	to Date	Funding	Pending	Total F	unding	City Share of
(in \$millions)	Total Cost	Canada	Manitoba	Canada	Manitoba	Canada	Manitoba	Costs
Funding by Project								
Power Supply and Headworks Facilities	\$ 517.85							
Power Supply and Other Ineligible	52.28	-	-	-	-	-	-	\$ 52.28
Headworks Facilities	421.10	\$ 92.23	\$ 76.85	\$ 23.88	\$ 19.90	\$ 116.11	\$ 96.75	\$ 208.24
Headworks Facilities - NWI* Failure	44.47	-	-	-	-	-	-	44.47
Biosolids Facilities	1,035.00	-	\$ -	200.87	\$ 197.38	200.87	197.38	636.75
Funding Dependent								
Nutrient Removal Facilities	1,491.03	-	-	-	-	-	-	28.89
Estimated Program Costs	\$ 3,043.88	\$ 92.23	\$ 76.85	\$ 224.75	\$ 217.28	\$ 316.98	\$ 294.13	\$ 970.63

#### 2) Funding for the Winnipeg Sewage Treatment Programs is as follows:

WSTP All Projects		Funded	to Date	Funding	Pending	Total F	unding	City Share of
(in \$millions)	Total Cost	Canada	Manitoba	Canada	Manitoba	Canada	Manitoba	Costs
WEWPCC Biological Nutrient Removal <sup>1</sup>	\$ 33.23	\$ 5.07	\$ 8.19	-	-	\$ 5.07	\$ 8.19	\$ 19.97
NEWPCC Centrate and UV Disinfection <sup>1</sup>	52.08	5.59	14.54	-	-	5.59	14.54	31.95
SEWPCC Nutrient Removal/Expansion	375.60	37.04	15.98	5.30	1.10	42.34	17.08	316.18
NEWPCC Power Supply and Headworks <sup>2</sup>	517.85	92.23	76.85	\$ 23.88	\$ 19.90	116.11	96.75	304.99
NEWPCC Biosolids <sup>3</sup>	1,035.00	-	-	200.87	197.38	200.87	197.38	636.75
NEWPCC Nutrient Removal 4	1,491.03	-	-	-	-	-	-	28.89
Estimated Program Costs	\$ 3,504.79	\$ 139.93	\$115.56	\$ 230.05	\$ 218.38	\$ 369.98	\$ 333.94	\$ 1,338.73

<sup>&</sup>lt;sup>1</sup> WEWPCC Biological Nutrient Removal and NEWPCC Centrate and UV Disinfection have been completed.

<sup>&</sup>lt;sup>2</sup> On July 23, 2021 the Federal and Provincial governments announced \$212.86 million in Investment in Canada Infrastructure Program (ICIP) funding for the NEWPCC Upgrade Power Supply and Headworks project. \$116.11 million in Federal and \$96.75 million in Provincial funding.

<sup>&</sup>lt;sup>3</sup> On August 16, 2022 the Federal and Provincial governments announced an additional \$368.25 million in ICIP funding for the NEWPCC Upgrade Biosolids project. \$200.87 million in Federal and \$167.38 million in Provincial funding. On March 28, 2025, the Provincial government signed an agreement for an additional \$30 million in SIB funding for the NEWPCC Upgrade Biosolids project.

<sup>&</sup>lt;sup>4</sup> NEWPCC Upgrade Nutrient Removal project has not been approved. The cost estimate for the NEWPCC Upgrade Nutrient Removal project was updated from \$828.06 million to \$1,191.03 million in 2025. An additional \$10.894 million in City funding was approved for the NEWPCC Upgrade Nutrient Removal project by Council on March 27, 2025.

<sup>\*</sup> Northwest Interceptor (NWI)