NEWPCC Upgrade

Mega Capital Project Steering Committee

Executive Policy Committee

February 17, 2026

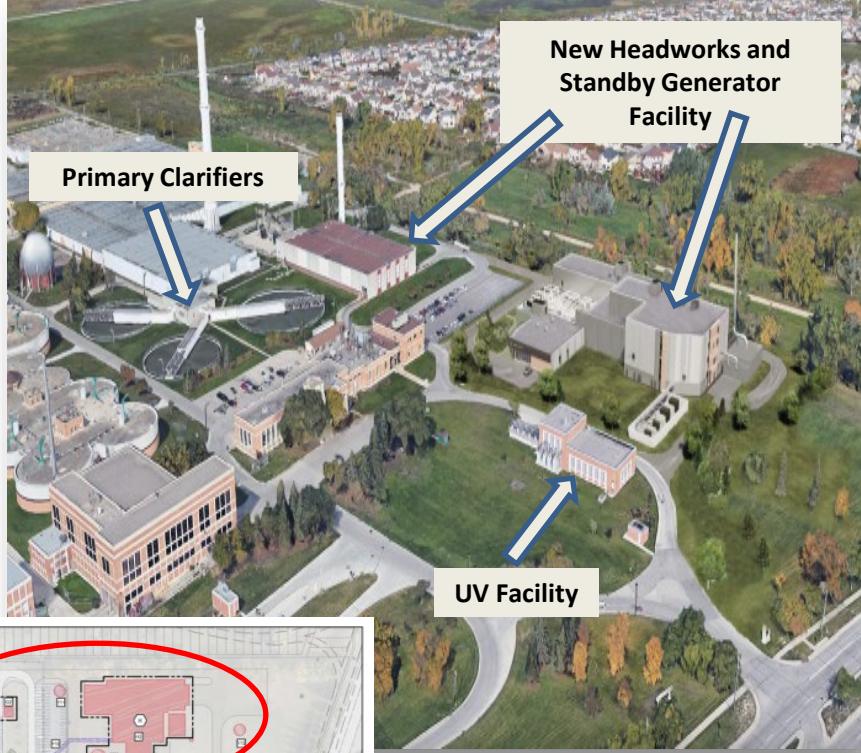
NEWPCC Upgrades

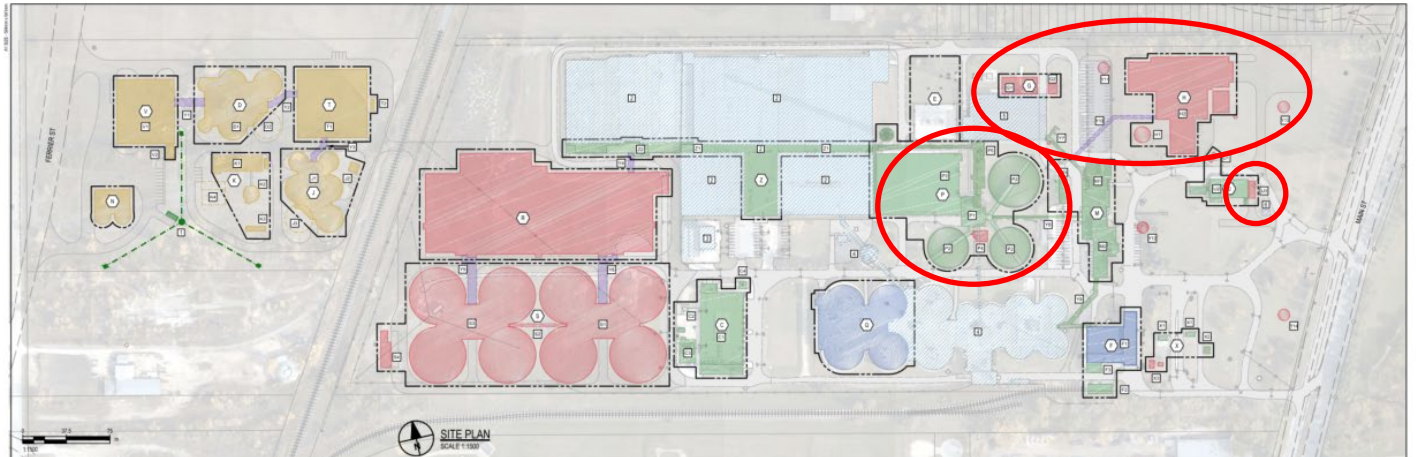
- Key Drivers:
  - To meet licence requirements
  - Replace aging infrastructure
  - Required to grow city
- Upgrades include:
  - Project 1: Power Supply and Headworks Facilities
  - Project 2: Biosolids Facilities
  - Project 3: Nutrient Removal Facilities



Headworks Project

- Budget: $565M
- Delivery: Design-Build
  - Ancillary Projects use Design-Bid-Build
- Scope: Pumps, grit, screens
- Status: Under construction





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Headworks – December 2025

- **Headworks**: Energized the switchgear and completed site drainage west of the headworks building
- **DCS Migration**: Replaced the plant communication and automation system in the Boilers Area (4 of 11 areas complete)
- **Primaries**: Completed basement concrete pours
- **UV**: Upgrades ongoing with system reinstatement anticipated by March 15, 2026

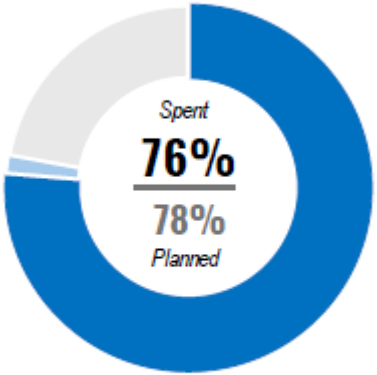


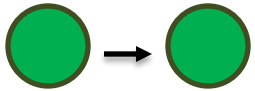




Headworks – December 2025

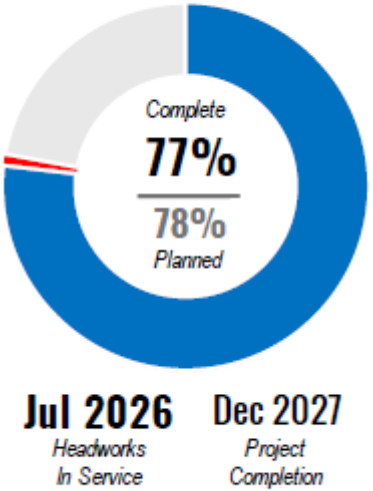
- Cost





- $6.5 million spent
- Costs tracking to planned

- Schedule





- Milestones were met
- Planned construction activities not met
- Schedule is aggressive

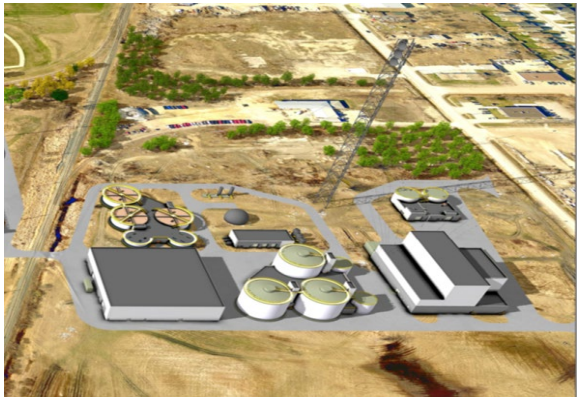
Headworks – December 2025

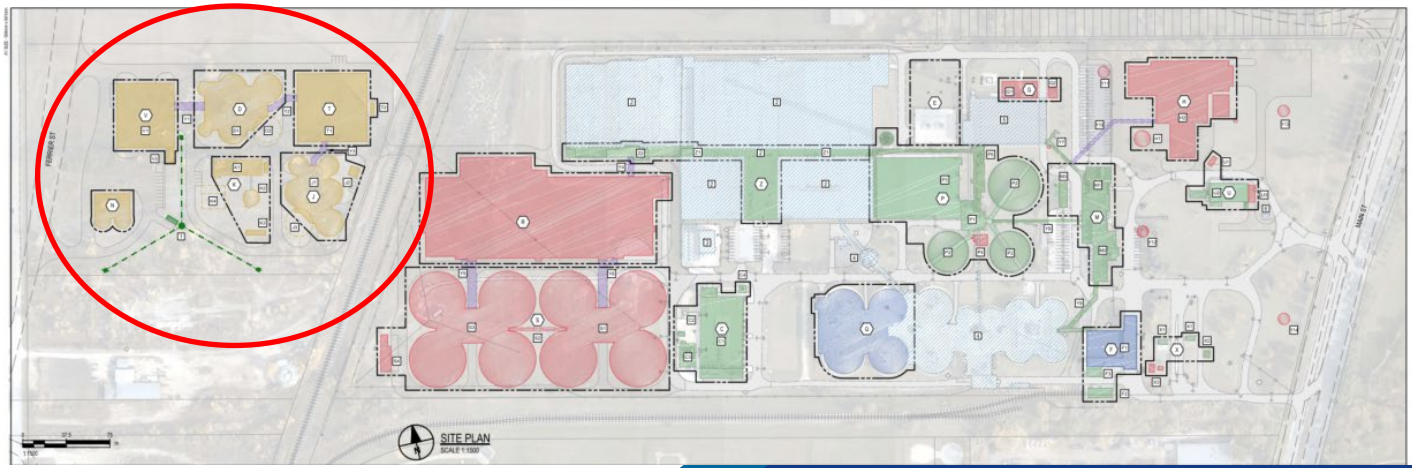
- Key risks: 
  - Feeder main crossings
  - UV gate delivery
  - Tie-ins to existing plant
  - Weather
- Other items:
  - Lane closures on Main Street

Biosolids Project

- Budget: $1.035B
- Delivery: Progressive Design-Build
- Scope: Digestors, loading facilities, dewatering facilities, gas recovery
- Status: Currently in Development Phase

NEWPCC Biosolids Conceptual Design





Biosolids – December 2025

- **Biosolids**:

  Development Phase Agreement Stage Gate 2 (Preliminary Period) completed December 12, 2025

- **Utilidor and Site Preparation:**

  Substantial Performance January 12, 2026

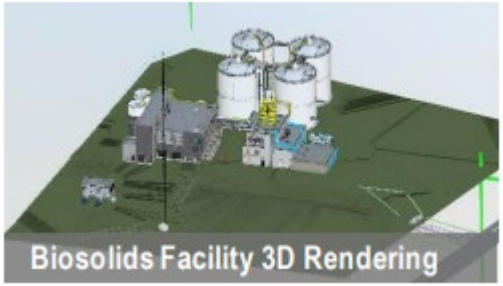
  Total Performance anticipated early February

- **Northwest Interceptor Lining:**

  Mobilization late January

- **Temporary Electrical Service Installation:**

  Overheard work began January 2026

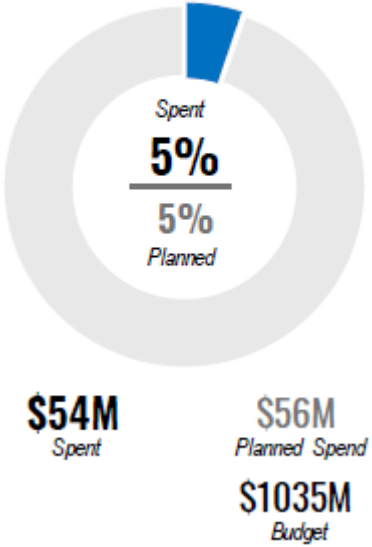

Biosolids Facility 3D Rendering


Preparatory Works (Utilidor)


Preparatory Works (Utilidor)

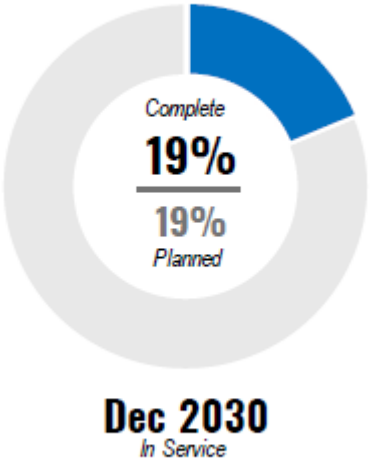
Biosolids – December 2025

- Cost



- $4.6 million spent
- Design phase paid on time and materials
- Costs tracking to planned

- Schedule



- Schedule based on Dec 2030 substantial
- Working towards 60% design

Biosolids – December 2025

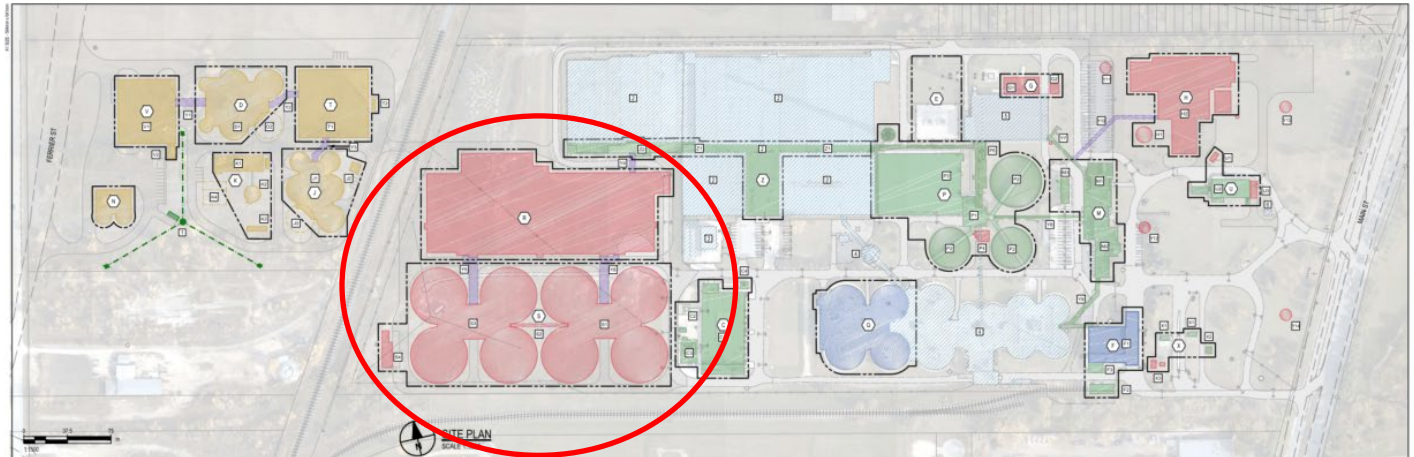
- Key risks: 
  - Cost and schedule
  - Market conditions
  - Timing of additional funding agreements
  - Biosolids capacity to support development

- Other items:
  - Community Liaison Officer position posted
  - Public outreach for land drainage system

Nutrient Removal Project



- Budget: $1.570B
- Delivery: Progressive Design-Build
- Scope: Biological nitrogen and phosphorus removal
- Status: Currently in procurement
- Issued RFP Step 2 on January 26, 2026



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Project Costs

Project costs in $millions

Project	City	Manitoba	Canada	Total
Power Supply & Headworks	$ 352	$ 97	$ 116	$ 565
Biosolids	$ 637	$ 197	$ 201	$ 1,035
Nutrient Removal*	$ 576			$ 1,570
Total	**$ 1,565**	**$ 294**	**$ 317**	**$ 3,170**

* This project is contingent on securing additional funding of $497 million from each of the Federal and Provincial governments

NEWPCC Upgrades

Thank you

winnipeg.ca/waterandwaste/sewage/treatmentPlant/newpcc.stm

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