

Business Item 2024-268

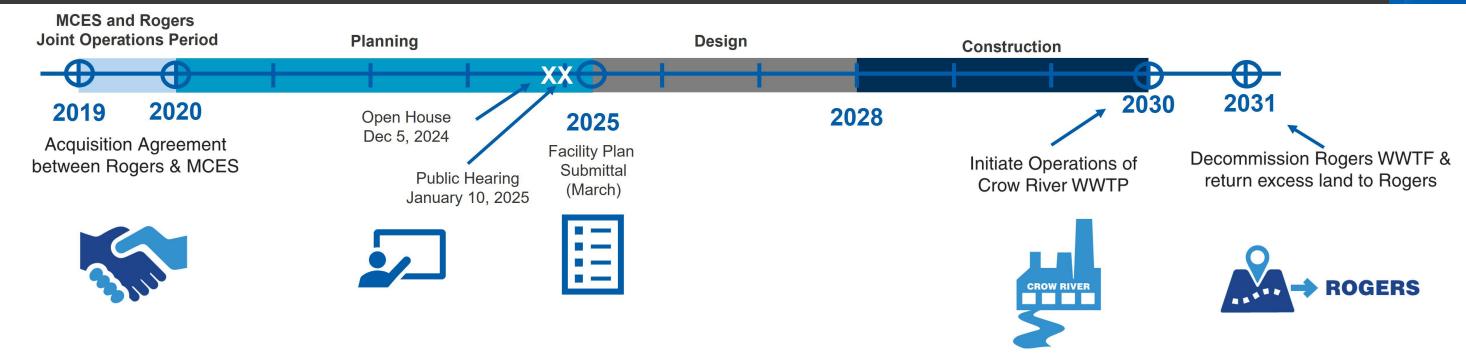
Authorization to Hold a Public Hearing on the Draft Facility Plan for the Crow River Water Resource Recovery Facility (WRRF) and Interceptor



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Crow River WRRF Background





Crow River Water Resources Recovery Facility (WRRF) Rationale

- The Crow River WRRF will serve long term growth in the northwestern region and offload flow in the existing elm creek interceptor, making capacity available for growth in the Metropolitan WRRF service area.
- New pipelines to Crow River WRRF will allow region to develop in the most efficient and economical way
- The Crow River WRRF will continue to protect the Crow River.

Council Property for WRRF





Archeological Studies and Tribal Outreach

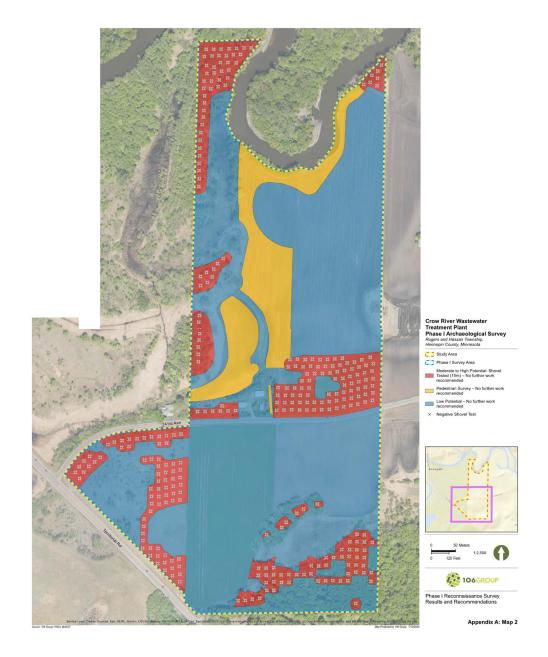
Research and Outreach efforts

Archaeological Literature Review And Assessment

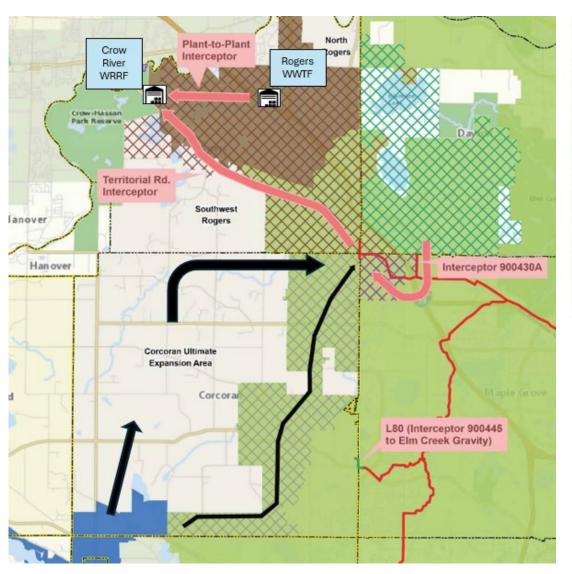
- Completed May 2023
- 11 tribes, MIAC, SHPO notified June 2023
- Received comment of interest from Cheyanne St. John, THPO at Lower Sioux Indian Community

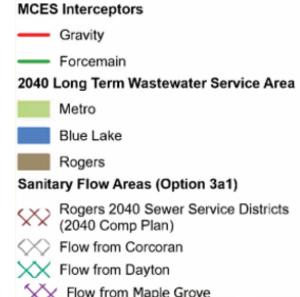
Phase 1 Archeological Survey

- No archeological materials observed, no new archaeological sites identified
- Complete July 2024
- 11 tribes, MIAC, SHPO notified June 2023
- No additional Tribal comments received



Crow River WRRF Long Term Service Area

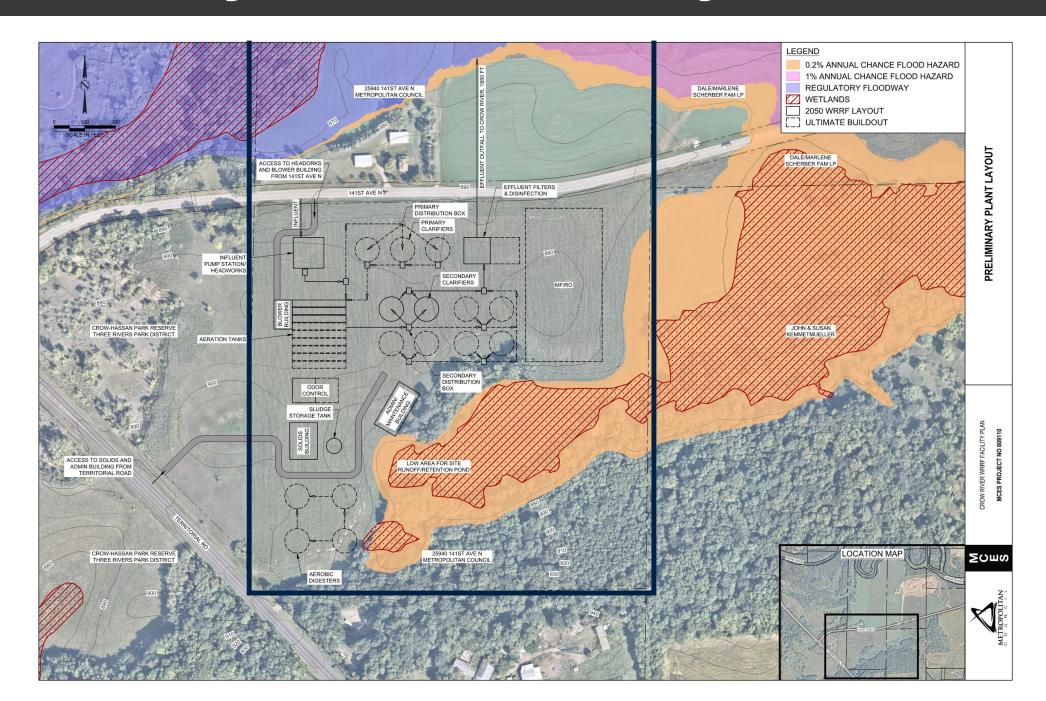




Average Daily Service Area Flow

- Initial Service Area
 - 3 MGD
- Ultimate Service Area
 - 16.5 MGD

Preliminary WRRF Site Layout



Metropolitan Council

Sustainability Features

Buildings, Benchmarks, and Beyond (B3) Sustainable Buildings 2030 (SB2030)

- Energy and carbon efficient processes and methods
 - High eff blowers
 - BAS
 - LED lighting
- Decarbonized HVAC systems and effluent heat recovery
 - Air source and water source heat pumps
- Tier 4 generator for Xcel's load deferment program
- MCES Sustainable Landscape Guidelines implementation
- Natural resources management plan
- Stormwater best management practices (BMPs)
 - Grass swales
 - Infiltration basins
 - Rain gardens
 - Porous pavement/permeable pavers

Wastewater Reuse Opportunities

- In-plant:
 - Flushing toilets
 - Landscaping irrigation
 - Make-up water, washdown water
 - Dust abatement
 - Concrete mixing
 - Priming drain traps
 - Fire protection
- Off-site:
 - Landscaping for commercial and residential areas
 - Agricultural (irrigation)
 - Parks
 - Golf courses
 - Local industries
 - Evaporative cooling locations
 - Data centers, manufacturing

Opinion of Probable Cost

| DESCRIPTION | VALUE |
|---|---------|
| Influent Forcemain/Gravity Effluent Outfall | \$27.7M |
| Headworks/Influent Pumping Building | \$25.7M |
| Administration/Maintenance Building | \$7.1M |
| Liquids Treatment | \$56.2M |
| Solids Handling | \$11.0M |
| UV Disinfection | \$6.0M |
| Odor Control | \$1.3M |
| Site Electrical (20%) | \$27.0M |
| TOTAL | \$162M |

Proposed Action

That the Metropolitan Council authorizes a Public Hearing on January 10, 2025 to gather input on the draft Facility Plan for the Crow River Water Resource Recovery Facility (WRRF) and Interceptor.



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