

City of Calgary Integrated Water Security Roadmap and Water Reuse Assessment

The City of Calgary provides water to almost one-third of Albertans. While we have access to a safe, clean, reliable water supply today, we know influences on water security in the future will be complex and varied, for example the impacts of climate change, a closed basin to new water allocations and continued growth. The project will assess climate and water supply scenarios, analyze risks, and use community values to generate a Water Security Roadmap. This will guide planning and investment pathways for The City of Calgary to best manage water supply and meet future water needs to 2100.



RECIPIENT:
City of Calgary



PARTNERS:
WaterSMART
Solutions Ltd.



TOTAL BUDGET:
\$1,166,183



AI FUNDING:
\$407,341



PROJECT DATES:
MAR 2023 –
APR 2026



PROJECT TRI:
Start: N/A
End: N/A

APPLICATION

The Water Security Roadmap and associated Water Reuse Assessment Report will be directly utilized by The City to make informed, future-focused and climate resilient water management and investment decisions. Guidance documents will be prepared for use by other municipalities throughout Alberta looking to replicate this project for themselves in pursuit of water security and improved water management.



PROJECT GOALS

The main objectives of the project are to guide planning and investment pathways for The City of Calgary to best manage a secure, resilient water supply and meet future water needs until 2100. A key deliverable will be a Water Security Roadmap and accompanying report, which will be developed through climate change analysis, hydrologic modelling, risk assessment, and integration of community values. Water reuse will be incorporated into this roadmap via another key deliverable, the Water Reuse Assessment Report.

BENEFITS TO ALBERTA

- The implementation of the Water Security Roadmap within The City of Calgary and elsewhere will help improve future water management and maximize efficient use of existing water resources. It will help ensure that water security is a driving factor for future decisions by The City of Calgary.
- Efforts to implement water reuse outcomes could result in additional economic activity and could incentivize additional technology development by local SMEs to support water reuse opportunities across Alberta.
- This project will provide the information needed to confidently and cost effectively proceed with public projects in water reuse and major water security investments over the next 75 years.



2 HQSP Trained



3 Practices
Informed/
Influenced

CURRENT STATUS

APR 2023

The project has recently kicked-off.