

SSSS



SCOPE OF INFLUENCE

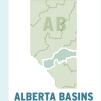
BW

Projects which impact a local area specific to the location of the project.

BASIN WIDE INFLUENCE

LOCALIZED INFLUENCE

Projects with the potential to benefit water users across the entire NSRB.



WATER RESILIENCE ROADMAP FOR THE NORTH SASKATCHEWAN **RIVER BASIN** (NSRB)

Watershed management and climate adaptation are complex and require a collaborative approach to ensure that the resultant projects are considered on both a local and regional scale. This study incorporates testing of potential adaptations against future climate scenarios to develop a new Roadmap for the NSRB.

Indigenous water governance and Treaty Rights are overarching considerations for the Roadmap.

ESTIMATED COSTS*

< \$1 MILLION \$\$ \$1-5 MILLION \$\$\$

>\$10 MILLION

\$5-10 MILLION

BENEFITS

1

ECONOMIC GROWTH

ENVIRONMENTAL OUTCOMES

SUSTAINABLE WATER MANAGEMENT

*Estimated costs are in 2025 dollars





Implement effective stormwater retention plans and erosion control measures



Support flood and drought mitigation planning with municipalities, First Nations, Metis communities, agriculture, the Government of Alberta, and industry



LESS THAN 3 YEARS REQUIRED TO IMPLEMENT



Establish basin-scale Conservation, Efficiency, and Productivity (CEP) targets for municipalities, industry, and the agricultural sector to incentivize sustainable water use



Support the development and implementation of water reuse projects in collaboration with industry and municipalities



Improve access to and use of alternative water sources for consumptive operations, including improved data availability



Create an Indigenous-guided future Roadmap for water in the NSRB



UP TO 6 YEARS REQUIRED TO IMPLEMENT



Establish an approved NSRB Water Management Plan to guide water management decision making



Implement the North Saskatchewan **River Wetland Strategy**



Improve water quality in nonmainstream drinking water sources, including lakes and tributaries



Improve water security for Indigenous communities, ensuring adequate and safe water is available for drinking, household, community needs, and emergency services



Enhance connection with Alberta's Land-Use Framework and other existing regulatory frameworks



Explore establishing a collaborative relationship with hydro facilities



Develop natural asset programs and tools to support ecosystem services and fill key

COMPLEMENTARY ACTIONS



Refine and promote the collaborative decision support tool



Continue to build flood-resilient infrastructure to reduce potential flood impacts









CARDINAL RIVER

BIGHORN DAM

SCAN TO ACCESS THE FULL REPORT

This roadmap was developed in collaboration with the North Saskatchewan Working Group members who provided input on several key strategies which can be implemented throughout the NSRB.

UPPER NORTH

SASKATCHEWAN RIVER

CLEARWATER RIVER



MORE THAN 6 YEARS REQUIRED TO IMPLEMENT



informed by Alberta Energy Regulator (AER) and Government of Alberta objectives

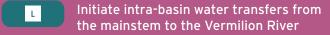
Develop aquifer management plans



information gaps

FUTURE CONSIDERATIONS









Design a hydrologic model in collaboration with Indigenous communities