



Who we are

The Water Security Agency is a unique organization in Canada - bringing together all of government's core water management responsibilities in one place. We manage the province's water supply, protect water quality, ensure safe drinking water and treatment of wastewater, own and manage 49 dams and related water supply channels, reduce flood and drought damage, protect aquatic habitat and provide information about water.

What we do

Ensure sustainable water use
 Protect water quality and quantity
 Protect aquatic ecosystems
 Forecast and reduce flood and drought damage
 Ensure safe drinking water and treatment of wastewater to protect our environment
 Develop, own and manage the province's water management infrastructure

When it comes to water, we provide a one window approach for Saskatchewan citizens.

By the numbers

- 1 head office in Moose Jaw
- 15 regional, dam site, and environmental services locations
- 24 primary surface water quality stations and many project specific water monitoring sites
- 49 dams, owned and operated
- 70 monitoring wells, reporting on aquifers since the 1960s
- 130 kilometres of water conveyance channels
- 205 employees
- 283 stations in our hydrometric network, collecting data on stream flows and lake levels
- 588 wastewater facilities under our regulation
- 810 waterworks under our regulation

[Learn more at wsask.ca](http://wsask.ca)

#careers
#geosciences
#engineering
#hydrology
#hydrogeology
#skysthelimit
#workthatmatters

Do work that matters. Put your engineering or geosciences degree to work as a hydrologist or hydrogeologist.

Hydrologist

Our hydrology team does real time forecasting and long-term planning for Saskatchewan's water resources.

As part of that team, you'll provide advice and technical support to a broad base of clients that includes SaskPower, rural municipalities, the Ministries of Highways and Infrastructure and Government Relations, engineering consultants, colleagues in our regional and engineering offices, and individual land-owners. The forecasting team

monitors weather conditions, stream flows and lake levels using information collected from 283 hydrometric stations around the province. This information helps us forecast and respond to floods, plan for droughts and direct the operations of our structures.

Our hydrology studies are used in all scales of infrastructure projects, from deciding the size of culverts required in a road, to major bridge and dam construction or rehabilitation.

Hydrologists also prepare reservoir operating plans to meet the desired mix of water supply, recreation, power protection and flood protection benefits. Regulators of development will rely on you for flood risk assessments.

You'll interpret hydraulic models as part of drainage and infrastructure projects and complete water supply studies to understand overall availability of water for industrial, municipal and agricultural projects.

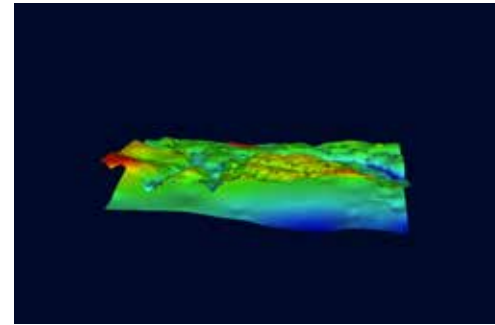
Hydrogeologist

As part of our groundwater licensing process, you'll assess hydrogeological studies prepared by consultants. The hydrogeological team maintains and reports on Saskatchewan's Groundwater Level Observation Well Network. This series of 70 wells throughout the southern half of the province has been reporting on groundwater levels and quality of water since the 1960s.

Our interprovincial and intergovernmental agreements involve the hydrogeology team to insure good governance and sustainable use of shared groundwater resources.

A large part of the job involves careful analysis, turning hydrogeological information and data into meaningful cause and effect relationships.

Groundwater resource assessments ensure we have the 'big picture' oversight of the quality and quantity of groundwater resources in Saskatchewan.



Geological layers, with respect to depth

As a hydrogeologist, you'll provide technical support to your colleagues in our organization and government ministries including the Ministries of Environment, Agriculture and Government Relations.

You'll identify and complete hydrogeological studies and provide support to environmental assessments by evaluating the impact of proposed development on groundwater quality and quantity.

Example of mapping potential spring run-off

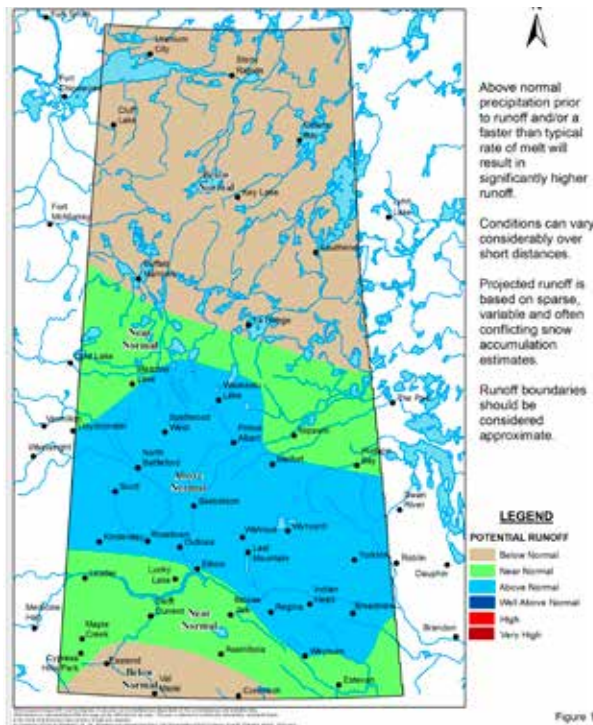
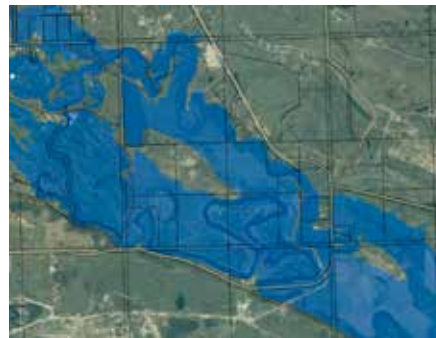
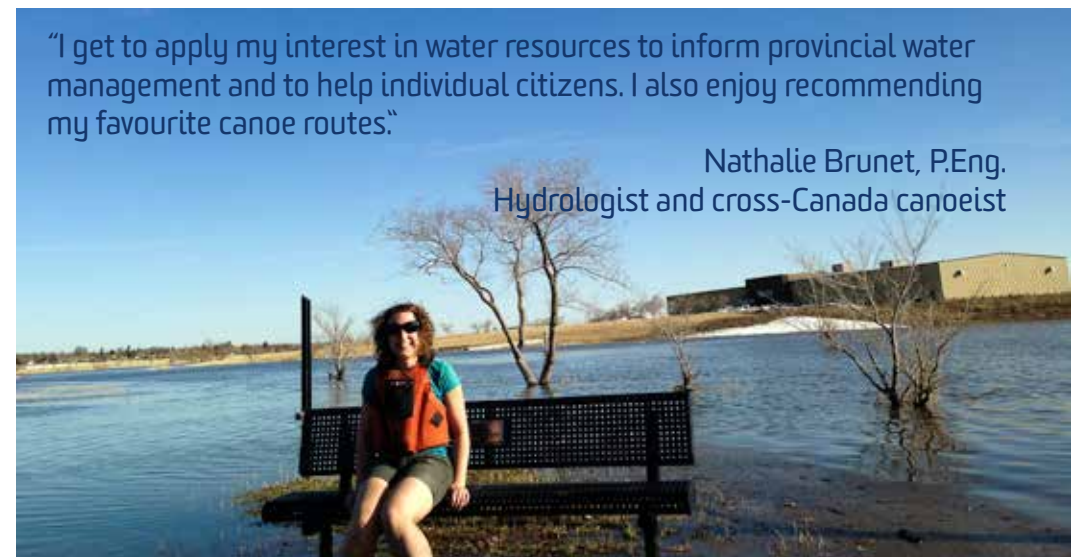
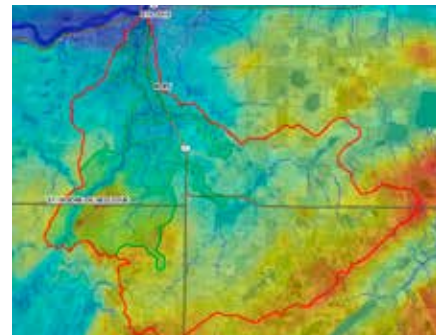


Figure 1

Mapping flood waters



Defining a drainage area



"I get to apply my interest in water resources to inform provincial water management and to help individual citizens. I also enjoy recommending my favourite canoe routes."

Nathalie Brunet, P.Eng.
Hydrologist and cross-Canada canoeist