



**Update #4  
May 2023**



**Justin Hicking, Water Operator**  
EOCP L2 Water Treatment,  
Distribution, and Sewer Collection

**Meet Our Team** – we are excited to introduce more of our members who are proud to provide high quality, safe drinking water to our communities.

**Justin Hicking**, Water Treatment Plant Operator – With ~13 years’ municipal water and sewer experience, Justin has been with the City for 15 years. His positive vibe, diverse experience, and willingness to always help with any task make him a valuable team member. Justin is a proud Nova Scotian who has travelled to Denmark and Japan to fabricate Canadian custom log homes before joining the City’s team. Justin is an active contributor to the community and well known for his annual Halloween displays which both frighten and delight all who drop by his home.

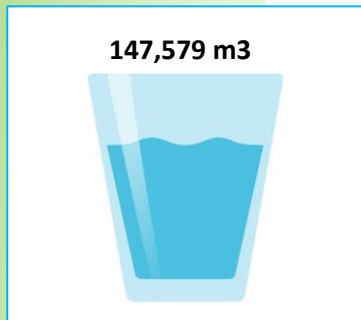
**AWS/ERWS Operations April Updates**

- Last year’s drought pattern has extended into this year, and we are experiencing ~30% less rainfall than average. This has affected the Arrowsmith Dam fill rates and levels as the reservoir is typically full before May.
- Arrowsmith Lake Dam is **75% full** (elevation 823.3m, end of April 2023), 5.2m below the spillway level. It is trending the same way as 2009 conditions (see attachment, Arrowsmith Dam level graph).
- Snow pillow (snow water equivalent) depth is at 1100 mm. The mountain snowfall in early April increased the snow pillow to this low-average level. Thawing of the snow pillow (spring freshet) is filling the reservoir and is expected to continue throughout May and June.
- In preparation for 2023 conditions, staff met with the Ministry of Forests (MoF), Department of Fisheries and Oceans (DFO), and our partners to review historical records. Snow pillow, spring freshet, upcoming weather patterns, baseflow, and the Arrowsmith Dam’s current and predicted volume are all factors that were reviewed and discussed.
- Staff will continue to work closely with MoF and DFO throughout the season to ensure the best use of stored water for drinking water, aquatic health, and fish habitat. Like 2009 conditions, a special order may be implemented by MoF to respond and reflect various conditions.
- In general, a maximum of 15% of the Arrowsmith Dam water is used for drinking water supply purposes and the remaining water released is used to supplement the river baseflow. Water is drawn at the new intake located upstream of the Inland Highway 19.
- Residents are encouraged to conserve water where possible to support the aquatic ecology.
- A request for proposal has been issued to retain a consultant to review climate change affects on Englishman River baseflow and Arrowsmith Dam operating conditions and provide recommendations to support an updated Provisional Operating Rule guideline.

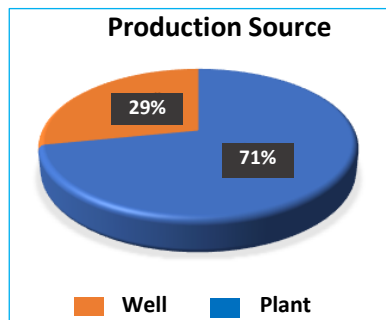


Photo from Snow Station Satellite Camera (from remote access)

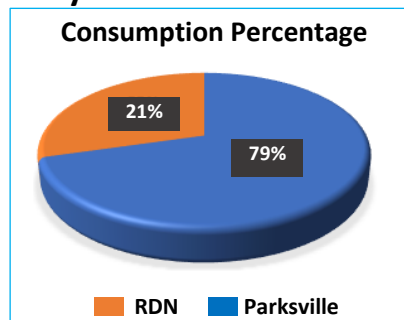
**Monthly Production and Consumption Facts**



Parkville wells and ERWS totals



Parkville wells and ERWS totals



Well water not included in percentages