

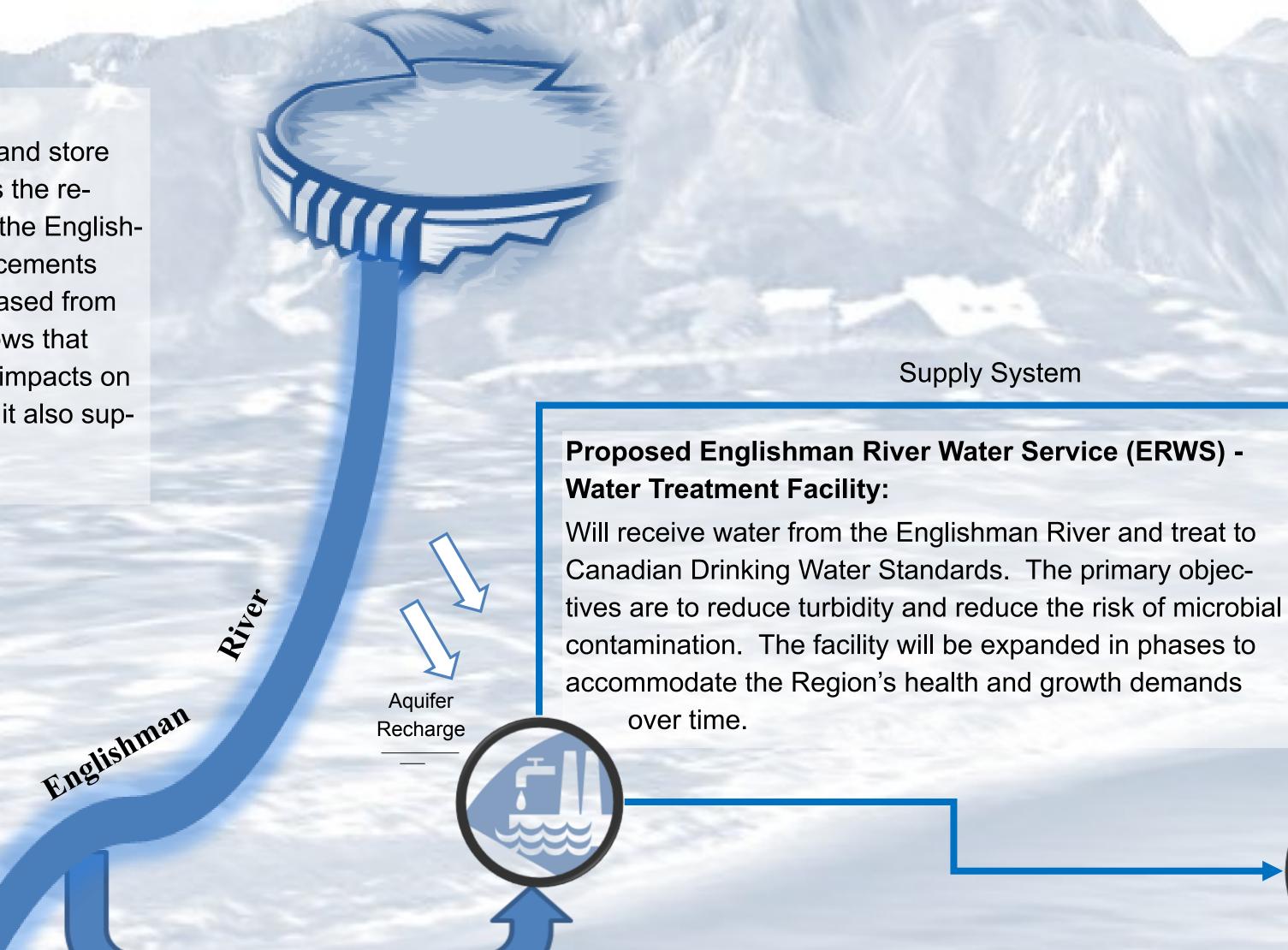
ASR Concept - How it Works

Arrowsmith Reservoir and Dam:

The purpose of the Arrowsmith Reservoir is to collect and store water during the winter. The Arrowsmith Dam controls the release of water from the Arrowsmith Lake Reservoir to the Englishman River during the summer for fisheries enhancements and potable water extraction. The additional flow released from the Dam helps augment and stabilize summer river flows that support aquatic life, riparian flora & fauna and reduce impacts on groundwater. AWS not only provides fishery benefits, it also supports river health and ecological benefits.

Englishman River:

The Englishman River serves as a natural waterway that conveys water from the Arrowsmith Reservoir to the point of extraction from the river. Not all water released from the Arrowsmith Dammakes it to the extraction point, depending on the time of year; water is lost through evaporation and into the ground which helps recharge the Englishman River aquifer.



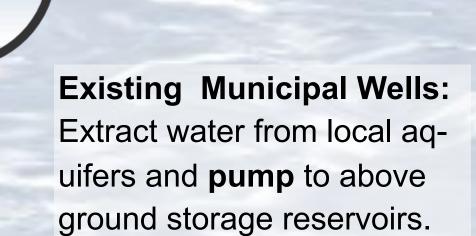
Confining Layer (Barrier)



The location of the proposed new water intake is at the Highway 19 crossing at the Englishman River.

Above Ground Reservoirs:

Provide balancing **storage** for peak water use demands and emergency fire fighting storage



Distribution System

Residential and Commercial

Consumers Benefits:

Local Aquifers

Will provide sustainable and secure future water supply that incorporates leading edge technology to improve water quality that will exceed current health and safety guidelines. Will also provide a consistent and reliable source of water supply.

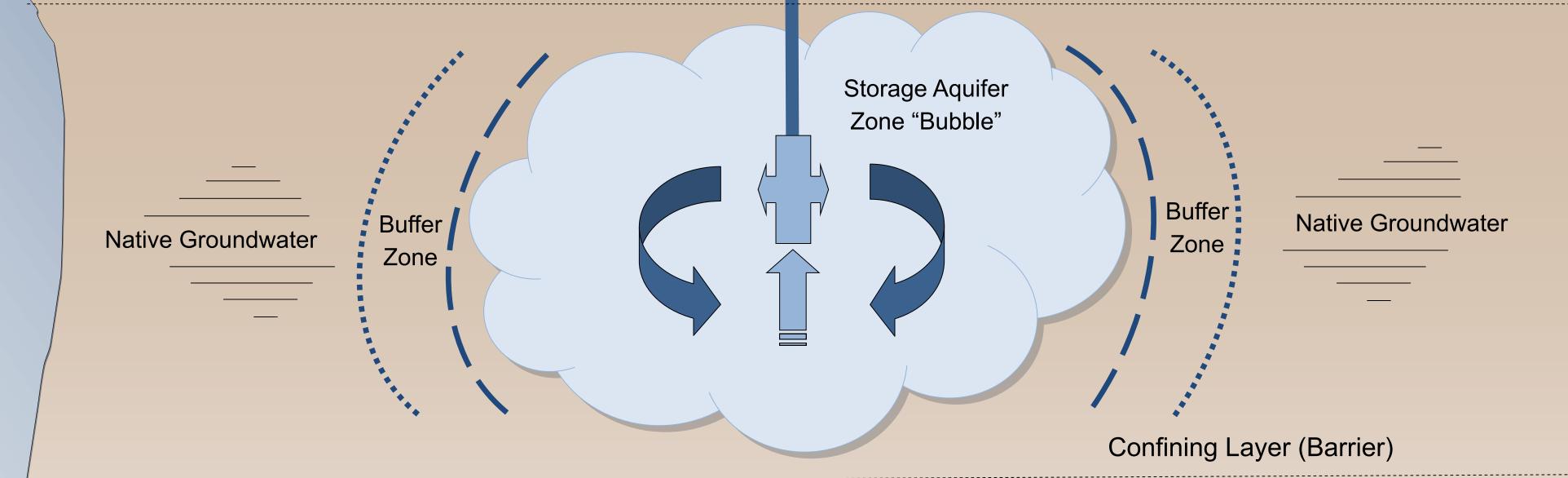
Proposed ERWS - Aquifer Storage and Recovery (ASR) Wells

Stored water is drawn back from the aquifer during peak summer



Fisheries Benefits:

Along with the water released for consumption and domestic use, this additional water creates better spawning and migration conditions for the fish in the river. In accordance with the requirements of its water license, the AWS works cooperatively with federal and provincial fisheries departments to manage the additional summer flows.



Treated water is injected via

ASR wells during the winter

and stored for later use

ASR BENEFITS:

Provides an efficient and cost effective means to store water for unknown climate change (i.e. drought conditions)

Allows a balanced supply for optimized operation for the winter and summer

Supports enhanced ecological health to the Englishman River