

SCHEDULE A - ASSESSMENT OF WATER DEMAND AND REQUIRED RESERVOIR STORAGE

There are **54** single family connections serviced by Falcon Ridge Utility. There is the potential for another 31 future connections that would result in an estimated build-out of 85 Single Family Lots.

Two lots have been connected to the water system since 2019. For the renewal of the 2022 Agreement, this Schedule (A) has been revised to record the flow data to determine the required releases.

Table A provides a summary of the recorded flows from the pump station in cubic metres.

Table A Volume

Flow Data from RDCO (m ³)		Jan 1 - Mar 31	Apr 1 - Jun 30	Jul 1 - Sep 30	Oct 1 - Dec 31
2019	Quarter:	5146	7451	9122	5793
	Year to Date:	5146	12597	21719	27512
2020	Quarter:	4596	5797	7769	4640
	Year to Date:	4596	10393	18162	22802
2021	Quarter:	5582	7286	10466	4244
	Year to Date:	5582	12868	23334	27578

* Design flow estimates - Annual Demand = 27.5 ML/year (2021)

* Maximum demand, 3 month period = 23,334 m³

For the months of January to March, BMID does not release flow to the creek due to freezing and access issues, and water demand is very low.

From April 1 to June 30, flows are naturally high in the creek, and watershed reservoir storage releases are not required.

High release time is from July 1 - September 30. The release provided is based on releasing capacity at all times to allow for pumping capacity by Falcon Ridge.

For the fall period, the water demands are expected to be half of the summer amount for the first half of the period, and then no release support would be available from BMID due to freeze-up.

A total of 40 ML of release water would be assigned for Falcon Ridge, to be released between July 1 and November 15 annually. A higher volume is released in order to ensure a sufficient percentage of water reaches the intake, i.e. accounting for conveyance losses.

Billing correlates to historic demand and sufficient release to meet same. Invoices are issued for the current year.