

BCGWA Okanagan Kootenay Regional Meeting

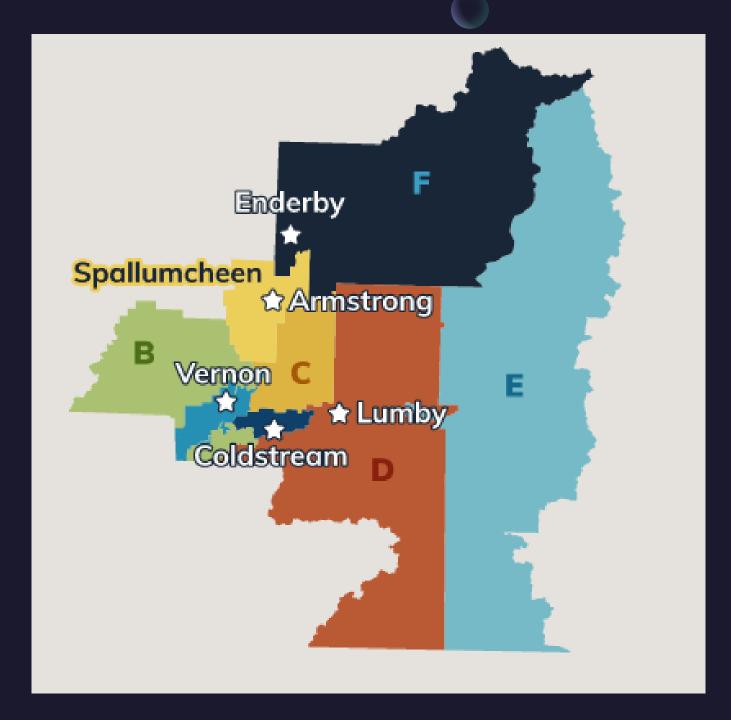
Proposed Changes to RDNO Subdivision Bylaw and Bedrock Hydrogeology of Northeast Vernon

October 2022



RDNO Subdivision and Proof of Water

- Proof of water requirements for subdivisions vary between Regional Districts.
- 2,270 L/day (500 Imperial gpd or 0.42 US gpm) most common
- RDNO Subdivision Bylaw 2600, last updated in 2013
- Different quantity requirements for different Electoral areas.
 - Some areas 2,270 L/day
 - Other areas 6,550 L/day (1.2 US gpm)

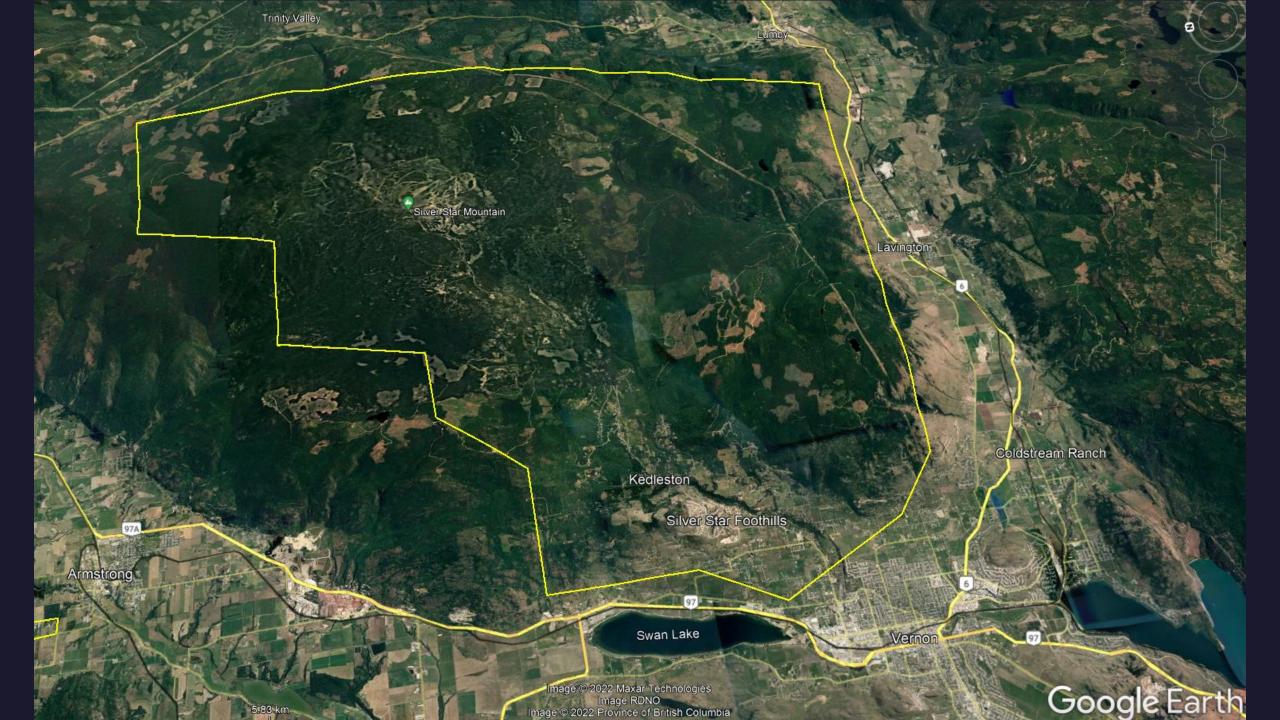


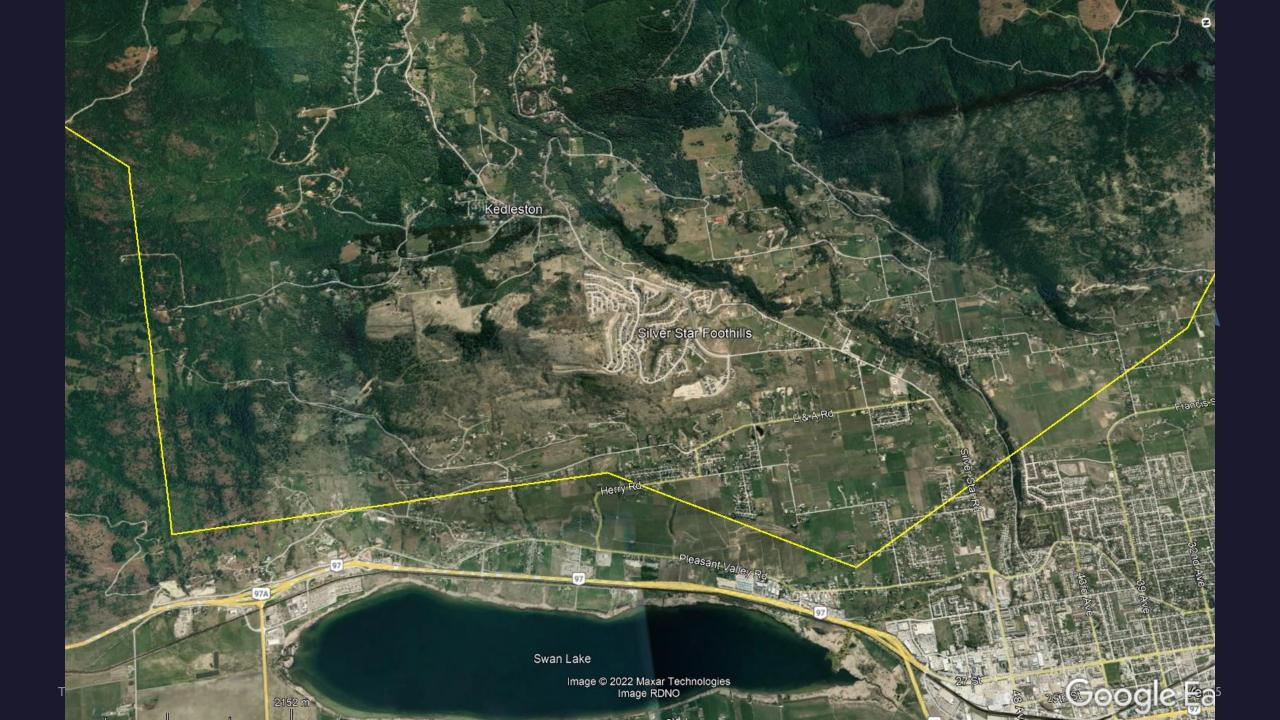
Electoral Areas D and E requirement is 2,270 L/day (0.42 US gpm)

Electoral Area B, C and F requirement is 6,550 L/day (1.2 US gpm)

Bylaw states that for wells with driller estimated yield greater than 3.6 US gpm, no pumping test needed

Other typical requirements include requirement to test wells in the dry part of the year (August to March), and pump test reports need to be 5 years current



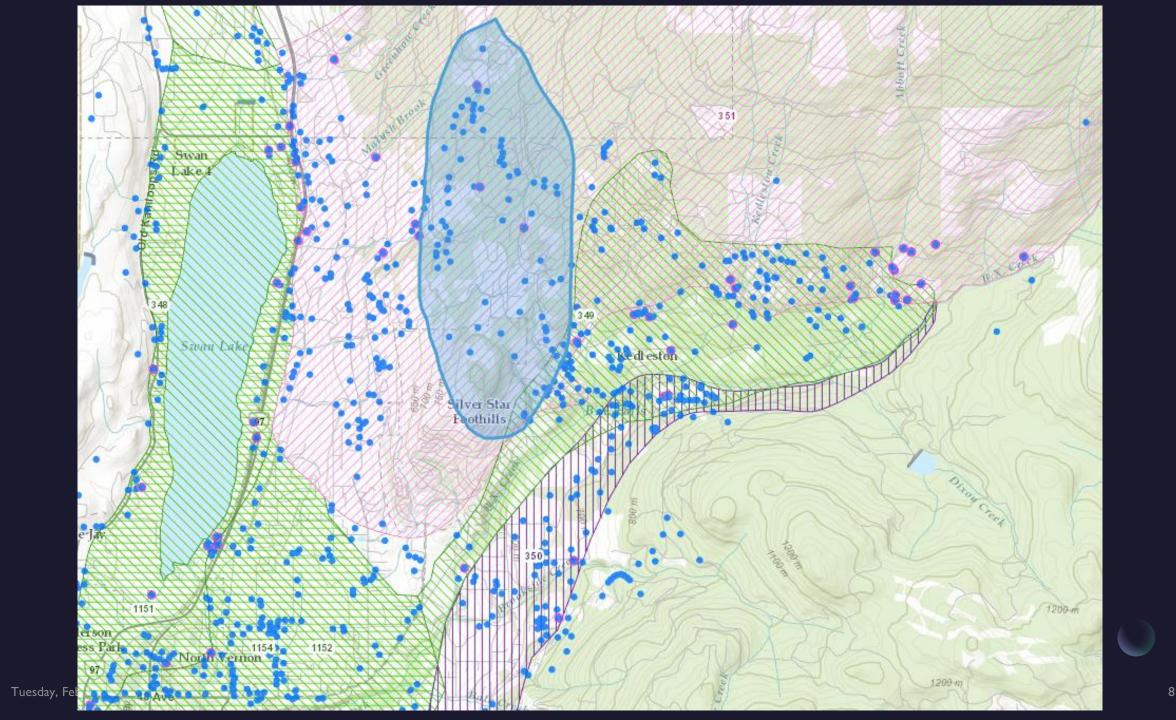


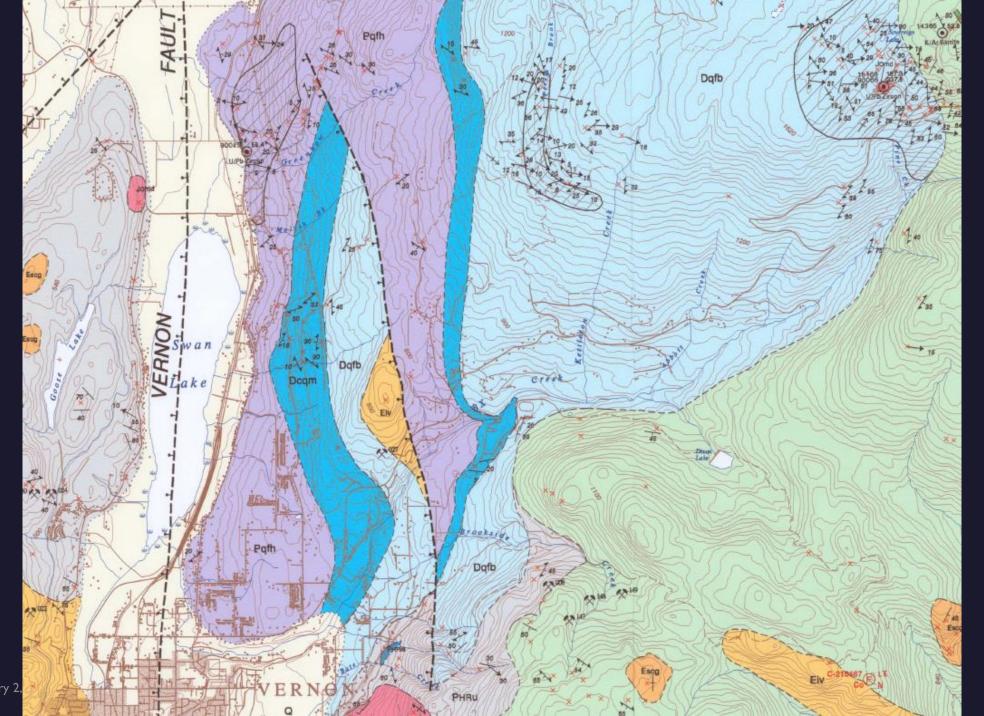
RDNO Subdivision and Proof of Water

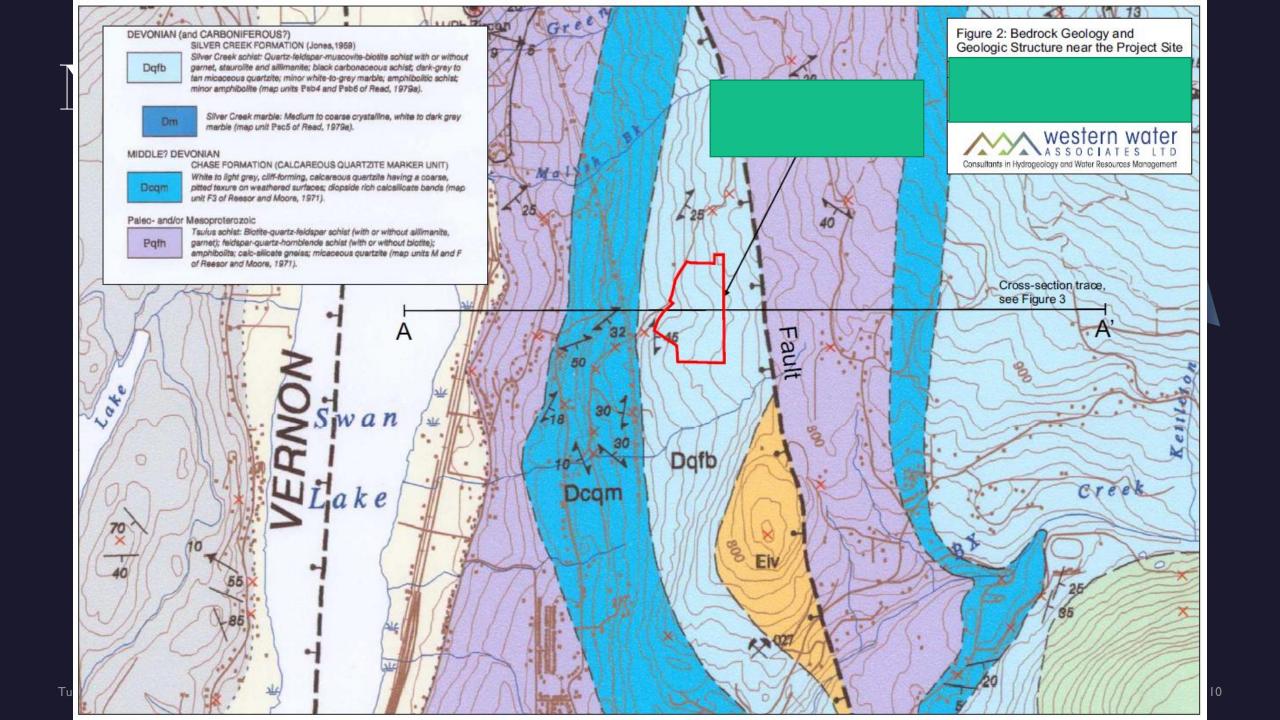
- There has long been development pressure west of Silver Star Road, and the area has been identified as an area of concern for groundwater supplies. In the Mid-2000s, the RDNO looked into providing community water to the area but it was cost prohibitive
- More recently (2019 2022), the RDNO commissioned Golder to complete two studies into water availability from aquifers 350 and 351 (bedrock aquifers north and south of BX Creek)
- As an outcome of the study, the RDNO is proposing changes to the Subdivision Bylaw for Electoral Area C.

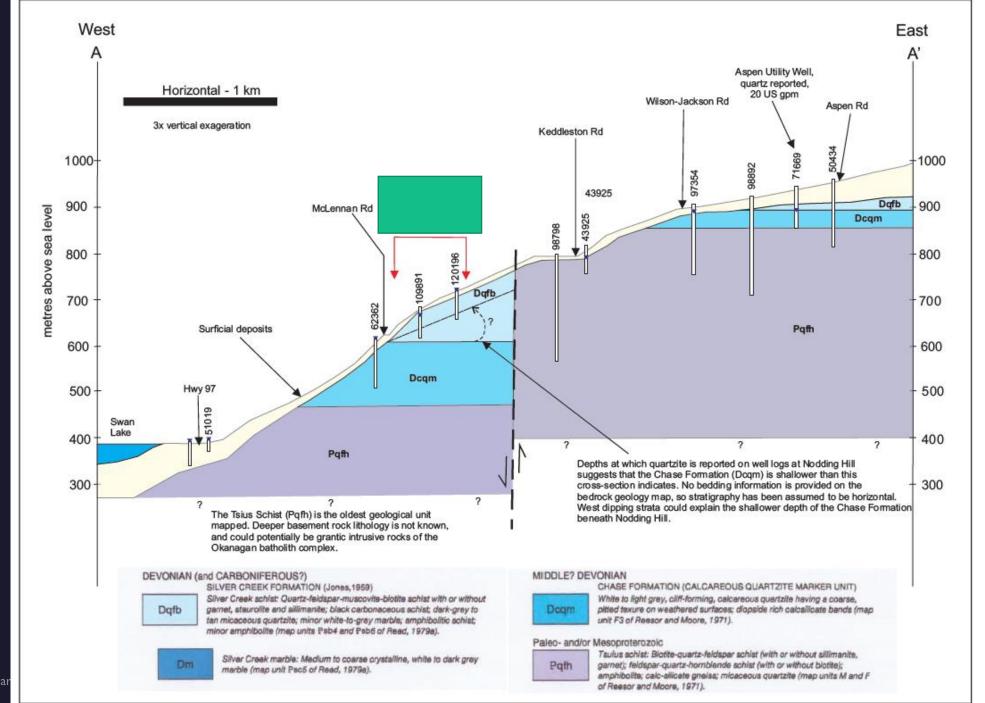
Proposed New Changes

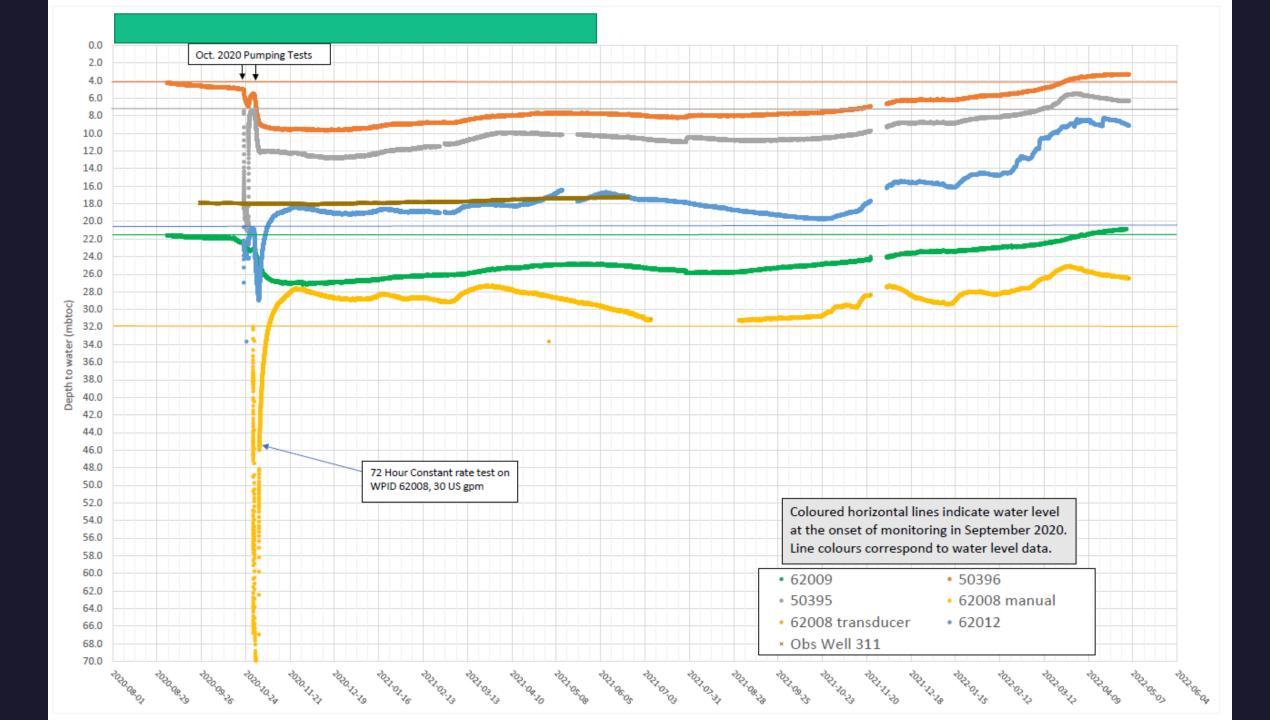
- At least one year of continuous water level monitoring for each well proposed as a water source.
- A survey (door to door, mail out?) to determine all wells within 300 m
- Driller-estimated yield of >3.6 US gpm no longer sufficient. Pumping test required, minimum duration of 72 hours for bedrock aquifers. 48 hours minimum for others
- At least one observation well must be monitored within 100 m of the pumping well in same aquifer or same fracture network
- Where more than one parcel to be created, every proposed well must be pumped at the same time.
- Letter of Certification required from hydrogeologist, in addition to report.











Take-aways

- RDNO Proposed Bylaw Changes our for public comment. In particular they are looking for input from water well professionals
- More info: <u>www.rdno.ca/keddleston</u>
- Send Comments: planning @rdno.ca
- There are hydrogeologic differences in Electoral Area C. Can't paint the whole area with the same brush.
- This is part of a general trend of increased scrutiny on proof of water for subdivisions. Other Regional Districts are updating their Bylaws as well.