

SOUTHERN LAKES
ENHANCED STORAGE
CONCEPT



Addressing Groundwater Effects

October 2015



**YUKON
ENERGY**

Over the past several months we have sent you a series of pamphlets with information about our research into increasing water storage in some of the Southern Lakes. The concept would see us holding more water in Marsh, Tagish and Bennett Lakes in the fall, so it could be used later in the winter for renewable power generation.

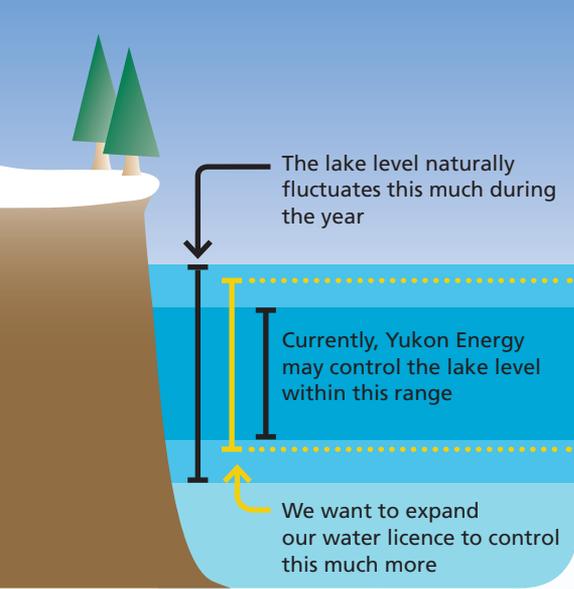
In this final pamphlet in the series, we examine the possible effects of this concept on underground improvements (e.g. septic systems and crawlspaces) and what can be done to address these potential effects.



WHAT WE KNOW:

- Some property owners in the Southern Lakes already experience some issues with groundwater affecting their septic fields/tanks, basements/crawlspaces, and sumps.
- An increase in the water storage at Marsh, Tagish and Bennett Lakes could extend the period of seasonal groundwater issues in some low-lying areas (mostly a matter of effects seen in the summer months lasting longer)
- Yukon Energy would address those issues by covering reasonable costs for raising septic fields, anchoring septic tanks, installing/upgrading sump pumps, and/or enhancing building foundations.

If the Southern Lakes Enhanced Storage Concept goes ahead, Yukon Energy has committed to protecting properties that may be affected by the project.



WORKING WITH PROPERTY OWNERS

Earlier this year, a comprehensive assessment was completed of the risks to properties in the Southern Lakes area. The purpose of the assessment was to identify all potentially affected properties, to determine what would be needed in terms of mitigation for each property, and to learn the financial cost of that mitigation.

Over the summer, Yukon Energy worked hard to meet with all property owners who might be affected by the potential project:

- Of an initial list of 153 properties, we spoke with 87 landowners by phone, 43 received hand-delivered letters, and 70 took part in one or more one-on-one meetings with us.
- Once site conditions were confirmed with property owners, we took measurements on 72 properties to collect additional information about possible effects of the Southern Lakes Enhanced Storage Concept should it move forward.
- We were able to conclude that 53 properties would be affected by the concept, and we believe all of the issues could be addressed by various mitigation measures.
- Of 12 properties with potentially complex building foundation concerns, only one was determined by engineers to require mitigation.





Be informed

Click on the “Southern Lakes Enhanced Storage” button on yukonenergy.ca to find the studies and read all the reports that have been done on this concept.



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