



## DISTRICT OF HIGHLANDS

### BYLAW NO. 393

#### A BYLAW TO AMEND THE "SUBDIVISION OR DEVELOPMENT OF LAND BYLAW NO. 154, 2001"

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The Council of the District of Highlands in open meeting assembled ENACTS AS FOLLOWS:

1. The District of Highlands Subdivision or Development of Land Bylaw No. 154, 2001 is amended as follows:

**A) In SCHEDULE B – STANDARDS FOR SERVICE, SECTION WA –  
STANDARDS FOR WATER SERVICE AND FIRE PROTECTION:**

- i. In subsection WA.1 GENERAL, REPLACE paragraph 1.2 with: “A Water Supply System serving more than one single-family residence will be required to obtain the required permits and approvals from Island Health. The well(s) that supply a Water Supply System are required to obtain a groundwater license through the BC Ministry of Forests, Lands and Natural Resources Operations.”
- ii. In subsection WA.1 GENERAL, REPLACE paragraph 1.3 with: “Land within the Capital Regional District Urban Containment and Service Policy Area Boundary within the District of Highlands may be connected to the Greater Victoria Water Supply System. The Works shall be approved by the Capital Regional District in accordance with their current standards.”
- iii. In Section WA.2 INDIVIDUAL WELLS FOR SERVICE LEVEL 1, REPLACE paragraph 2.1 a) with: “A qualified professional (registered with the Association of Professional Engineers and Geoscientists of BC) with competency in hydrogeology, shall be responsible for the location, evaluation, design, and construction of the groundwater well. The qualified professional shall provide the hydrogeological report currently described in Section 2.1b.”
- iv. In Section WA.2 INDIVIDUAL WELLS FOR SERVICE LEVEL 1, REPLACE paragraph 2.1 b) with: “The qualified professional shall prepare, seal and submit a hydrogeological evaluation report that provides a professional opinion whether the groundwater well meets the bylaw requirements. This report shall include a site plan (to scale and including latitude and longitudinal coordinates) showing the location of the well site(s) including any unsuccessful test wells. The report should discuss, at a minimum, the hydrogeological setting of the well, aquifer boundaries,

recharge conditions, the sustainable yield of the well, well water quality, and potential vulnerability of the well to contamination. The report shall include the results of all water quality and quantity testing undertaken as part of the testing program and address comments from other authorities reviewing the data, if provided.”

- v. In Section WA.2 INDIVIDUAL WELLS FOR SERVICE LEVEL 1, REPLACE paragraph 2.1 c) with: “Wells shall be situated outside the area from possible sources of contamination, and outside the minimum setback distances identified in the BC Health Hazards Regulation and the Sewerage System Regulation. Wells shall meet the minimum construction standards outlined in the BC Groundwater Protection Regulation. Well Construction Reports shall be submitted to the Comptroller of Water Rights, as per the requirements of the BC Groundwater Protection Regulation.”
  
- vi. In Section WA.2 INDIVIDUAL WELLS FOR SERVICE LEVEL 1, REPLACE paragraph 2.1 d) with: The total sustainable yield of the well shall exceed 4000 litres per day (L/day). The groundwater source shall be capable of sustaining this rate of flow continuously without utilizing more than 70% of the available draw down below the lowest seasonal static groundwater level. A pumping test shall be designed and interpreted by the qualified professional, and carried out after the well is constructed and disinfected to determine if the well is capable of meeting the design demand of 4,000 L/day per lot served. The pumping test shall be conducted by a qualified well driller or well pump installer (registered with the BC Ministry of Environment) or a person working under the direct supervision of a qualified professional, well driller or well pump installer and in accordance with the *Water Sustainability Act* and the guidelines outlined in the BC Ministry of Environment’s Guide to Conducting Well Pumping Tests. The pumping test shall be conducted during the dry season when static groundwater levels are lowest (summer or early fall). The pumping test should consist of continuous pumping at a constant discharge rate of at least 4,000 L/day for a minimum duration of 72 hours and recovery level monitoring until the original static groundwater level is achieved.”
  
- vii. In Section WA.2 INDIVIDUAL WELLS FOR SERVICE LEVEL 1, REPLACE paragraph 2.1 e) with: At least one sample of the pumped well water shall be taken near the end of the pumping test and sent to a laboratory for chemical analysis of the parameters required by the Vancouver Island Health Authority for Approval of New Sources including but not be limited to turbidity, total dissolved solids (TDS), major anions and nutrients, total metals including iron and manganese, and bacteriological analysis (total coliform bacteria and *E.coli*), and other parameters if suspected of being present in the aquifer that could represent a health concern, be an indicator of aquifer health or help guide

treatment, if required. The laboratory must be approved by the BC Provincial Health Officer to carry out the tests performed and reported on. The laboratory results for all samples shall be compared to the Guidelines for Canadian Drinking Water Quality and, if one or more parameters don't meet the requirements of the guidelines, the qualified professional shall provide an opinion on the potability of the water and recommendations for appropriate mitigation, if required.

- viii. In Section WA.2 INDIVIDUAL WELLS FOR SERVICE LEVEL 1, REPLACE paragraph 2.1 f) with: Unused wells shall be either maintained as a monitoring well or decommissioned in accordance with the requirements of the BC Groundwater Protection Regulation. If converted to a monitoring well, the unused well shall be upgraded, as required, to meet the minimum construction requirements of the BC Groundwater Protection Regulation.”

- 2. This Bylaw may be cited as "District of Highlands Subdivision or Development of Land Bylaw No. 154, 2001 Amendment Bylaw No. 4 (Refinement of Water Well Requirements) Bylaw No. 393, 2017.”

READ A FIRST TIME THIS	2 <sup>nd</sup>	DAY OF	October,	2017
READ A SECOND TIME THIS	2 <sup>nd</sup>	DAY OF	October,	2017
READ A THIRD TIME THIS	2 <sup>nd</sup>	DAY OF	October,	2017
ADOPTED THIS	16 <sup>th</sup>	DAY OF	October,	2017

*Original Signed*

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MAYOR

*Original Signed*

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CORPORATE OFFICER