

**REPORT TO CAPITAL REGIONAL DISTRICT BOARD
MEETING OF WEDNESDAY, OCTOBER 10, 2018**

SUBJECT **Water Supply to Neighbours of Hartland Landfill – Follow Up**

ISSUE

To present a policy to provide potable water to affected communities in the event of domestic well water contamination due to Hartland landfill operations.

BACKGROUND

Juan de Fuca Electoral Area Director Hicks brought forward a notice of motion to the Board in March 2018 regarding a policy to guarantee piped water to any community, at Capital Regional District (CRD) expense, that has permanent or long-lasting well water contamination as a result of activities at the Hartland landfill.

At that time, staff also presented the Hartland Landfill Good Neighbour Practices, which had been shared with the Willis Point community in response to concerns raised regarding protection of its groundwater resources. These concerns were raised in relation to the development of the Residuals Treatment Facility on the north portion of the landfill property.

The Board referred the matter back to staff to more closely align the policy and Director Hicks' motion and to respond to technical questions raised regarding the feasibility and cost for extension of the District of Saanich's distribution system.

ALTERNATIVES

Alternative 1

That the CRD Board adopt the Hartland Landfill Good Neighbour Practices policy as attached in Appendix A.

Alternative 2

That the CRD Board refer to matter back to staff for more information.

ENVIRONMENTAL IMPLICATIONS

The Hartland landfill is situated within Tod Creek watershed, which is a critical component of the landfill's groundwater and surface water management. Staff have designed engineered controls to augment existing natural flow mechanisms and to contain landfill-impacted groundwater in a small defined zone within the landfill property boundary.

Engineering controls installed at the landfill have mitigated historical (circa 1980s) water quality impacts near the landfill, and groundwater quality outside of the landfill property currently meets applicable standards. Based on the results of the existing sampling program, staff do not have any concerns regarding offsite groundwater quality in any direction from the landfill.

Groundwater flow mimics topography and flows downhill. Topography and, therefore, groundwater flow around the landfill is mostly towards the east-northeast. Higher elevation areas to the west and northwest block groundwater flow in that direction. Therefore, staff do not expect to see any landfill-related impacts in areas north or west of the landfill, such as the Willis Point area.

Since March, CRD staff have met with representatives of the Willis Point Community Association to select five existing domestic groundwater wells suitable for sampling within the community. Wells will be sampled for a limited suite of leachate indicator parameters, including sodium, ammonia, chloride and electrical conductivity. Annual sampling will be conducted in early August each year; the 2018 sampling results are currently being analyzed and will be shared with the well owners and the community this fall. This sampling regime will supplement the long-running residential well monitoring program currently in place for homes surrounding the landfill.

TECHNICAL AND INTERGOVERNMENTAL IMPLICATIONS

CRD staff reviewed the feasibility of extending piped water to the Willis Point community based on providing domestic water supply service, as well as emergency and fire flow storage for approximately 190 parcels. Two potential options were considered for the piped water source/point of connection; one option assumed a direct connection to the District of Saanich water distribution system at Hartland Avenue, and one option assumed a direct connection to the CRD Regional Water Supply Main No. 4 at Markham Road. Both options are considered feasible; however, further hydraulic capacity analysis would be required with the District of Saanich connection, if this option were to be pursued further.

ECONOMIC IMPLICATIONS

In the unlikely event that piped water is required for the Willis Point area, order of magnitude cost estimates to extend piped water to Willis Point for the two potential options noted above are between \$20 - \$25 million. Costs associated with the response, management and resolution of a condition impacting public health and safety, up to and including providing piped water to Willis Point to address permanent or long-lasting well water contamination as a result of activities at the Hartland landfill, would be borne by the CRD.

RECOMMENDATION

That the Capital Regional District Board adopt the Hartland Landfill Good Neighbour Practices policy as attached in Appendix A.

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Submitted by:	Ted Robbins, BSc, CTech, General Manager, Integrated Water Services
Concurrence:	Robert Lapham, MCIP, RPP, Chief Administrative Officer

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Attachment: Appendix A – CRD Hartland Landfill Good Neighbour Practices Policy