

# Community Need

2022 Summary



## Landfill & Recycling

### Strategy

#### Target Outcome

We envision minimizing waste disposal and maximizing waste diversion

#### Strategic Context

##### Strategies

- [Solid Waste Management Plan](#) – guides how the region will manage solid waste, including recyclables, compostable material and garbage from homes, businesses and institutions, as well as construction and demolition sites
- [Hartland Environmental Programs](#) – the Hartland Landfill Environmental Programs provide a comprehensive program to monitor and evaluate the effects of landfilling operations on the environment.

##### Trends, risks and issues

- Hartland public drop-off area continues to experience increased customer volumes, likely resulting from strong housing market activity and COVID-related waste disposal trends. Increased WorkSafe BC requirements when receiving homeowner renovation and demolition materials at the landfill.
- Ongoing consideration of solid waste resource recovery projects to maximize the environmental/economic benefits associated with waste diversion and disposal.
- The new Solid Waste Management Plan (SWMP) was endorsed by CRD Board in May 2021 and submitted to the Province shortly thereafter. Though it approved the SWMP, the Board expressed a desire in its deliberations to achieve waste reduction levels greater than the targets it laid out in it.
- The ongoing efforts to engage with local communities regarding the application of biosolids at Hartland Landfill is likely to continue for the next five years during development of the long-term biosolids management plan.

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### Services

Core Services Levels	
Service	Levels
<p><b>Diversion Services</b> Responsible for solid waste management planning in the Capital Region, including policy and program development to increase waste reduction or recycling.</p>	<ul style="list-style-type: none"> <li>• Planning &amp; policy development activities include the SWMP and the administration of 49 contracts and agreements and Compost Facilities Bylaw</li> <li>• Delivery of the recycling programs, which include curbside collection from 123,000 households and packaging, printed paper and glass collection from six electoral area depots. Today, Hartland recycling facility collects over 80 items from 28 product categories</li> </ul>
<p><b>Landfilling Services</b> Ensure regional landfill capacity with the operation of the CRD's Hartland Landfill. Ongoing capital and operating investments are made at Hartland to ensure compliance with BC Ministry of Environment landfill regulations, including leachate and landfill gas management infrastructure.</p>	<ul style="list-style-type: none"> <li>• Administration of five contracts and agreements</li> <li>• Residential service at bin area (9am-6pm weekdays, 9am-2pm Saturdays)</li> <li>• Commercial service at active face (7am-5pm weekdays, 9am-2pm Saturdays)</li> </ul>
<p><b>Resource Recovery Services</b> Installation and operation of landfill collection and utilization infrastructure at Hartland Landfill to ensure landfill gas (methane) destruction and compliance with provincial environmental regulations. Seek to maximize the environmental and financial benefits of Hartland Landfill gas utilization.</p>	<ul style="list-style-type: none"> <li>• Electricity generation using landfill gas generates enough electricity to power 1,600 homes</li> </ul>
<p><b>Hartland Environmental Programs</b> Monitoring, assessment and technical reporting to support regulatory compliance and contaminant reduction at Hartland Landfill</p>	<ul style="list-style-type: none"> <li>• Regulatory compliance monitoring of surface water, groundwater, landfill gas and leachate</li> </ul>
<p><b>Support Services</b> The core services listed rely on the support of several corporate and support divisions to effectively operate on a daily basis. These services are reported on in the Accountability Community Need Summary.</p>	<ul style="list-style-type: none"> <li>• Services include Asset Management, Facility Management, Financial Services, Information Technology &amp; GIS, Information Services, Human Resources &amp; Corporate Safety, Corporate Communications, Legislative Services, Legal Services, Risk &amp; Insurance and Real Estate Services.</li> </ul>

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Initiatives					
Ref	Initiative	Description	Year(s)	2022 impacts	
9a-1.2	Solid Waste Initiatives Coordinator	Deployment of planned waste diversion initiatives from the SWMP	2021	+1.0 FTE ongoing	\$119K fee-for-service + requisition
9b-2.1	Communications Assistant	Support for SWMP for education and outreach related to waste diversion initiatives	2021	+0.4 FTE ongoing	\$35K fee-for-service
9d-1	Landfill Maintenance Worker	Staffing increase to address ongoing site maintenance needs	2021	+1.0 FTE ongoing	\$99K operating budget + requisition

## Business Model

Funding
<p><b>Who contributes</b></p> <ul style="list-style-type: none"> <li>• Every jurisdiction in the region – not requisition/tax based – user fee-for-service based</li> <li>• Support Services: varies per service</li> </ul> <p><b>Funding Sources</b></p> <ul style="list-style-type: none"> <li>• Landfill tipping fees and recycling program revenues</li> </ul>

Reporting Structure
<ul style="list-style-type: none"> <li>• <a href="#">Environmental Services Committee</a></li> <li>• Project based reporting for Environmental Engineering: Parks Committee, Electoral Areas Committee, Recreations</li> </ul>

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Performance			
Definition and Source	2020 Actual	2021 Forecast	2022 Target
<p><b>Metric 1: Solid waste disposal target rate of 350 kg/person per year by 2020</b></p> <p>Annual kilos of solid waste per capita; calculation based on provincial Municipal Solid Waste methodology</p>	395	400	380
<p><b>Metric 2: Capture 75% of landfill gas at Hartland landfill</b></p> <p>Percentage of landfill gas captured at Hartland Landfill; data from CRD staff measurement and calculation</p>	67%	70%	75%
<p><b>Metric 3: Waste compaction rate at Hartland Landfill of 850 kg/m<sup>3</sup></b></p> <p>Kilos per cubic metre; data from CRD staff measurement</p>	960	960	980
Discussion			
<p><b>Link to Target Outcome</b></p> <p>The landfill and recycling metrics focus on minimizing waste disposal and maximizing waste diversion (Metric 1) while ensuring they are done efficiently (Metric 3) and environmentally sustainably (Metric 2).</p> <p><b>Discussion</b></p> <ul style="list-style-type: none"> <li>•</li> </ul>			