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Solid Waste & Recycling



Minimize waste disposal and maximize waste diversion

01 Strategy

STRATEGIES & PLANS

- › [Solid Waste Management Plan](#)
- › [Climate Action Strategy](#)
- › Hartland Environmental Programs
- › [Special Task Force on First Nations Relations](#)
- › [Regional Growth Strategy](#)
- › [CRD Corporate Plan](#)

CORPORATE PLAN GOALS

- 3a Maximize solid waste diversion & resource recovery from waste materials
- 3b Outreach & engagement with communities

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03 Operating Context

ACHIEVEMENTS IN 2026

1. Began the **Hartland 2050+** research process to determine the full range of waste disposal options, including alternatives to landfilling, that are available to the CRD when Phase 2 of Hartland Landfill is full in approximately 2050.
2. Launched a regional **Beyond the Curb** network of drop-off locations for recyclable materials that can't be collected at the curb, including flexible plastic and foam packaging.
3. Commissioned a **disaster debris framework** and municipal response plan template to support emergency planning and implementation across the region.
4. Negotiated a **new operating contract** for the Material Diversion Transfer Station at Hartland Landfill that applies lower costs for processing wood-based materials.
5. Completed the region's first-ever **waste generator study** and coordinated a new **waste composition study** at Hartland Landfill to update data sources related to materials, sectors and housing types.

FACTORS THAT WILL AFFECT OUR OPERATIONS IN 2027 AND BEYOND

- **Solid Waste Management Plan (SWMP):** The SWMP was endorsed by the CRD Board in May 2021 and approved by the Ministry of Environment & Climate Change Strategy (ENV) in July 2023. The SWMP has a target of reducing waste in the region by more than one-third over the next decade. Though the ENV approved the SWMP, the Board expressed a desire in its deliberations to achieve waste reduction levels greater than the targets laid out in it.
- **Collaboration on Waste Diversion Targets:** Despite the progress towards SWMP targets so far, achieving these targets will require significant dedication and effort by the CRD, along with behaviour change by the public, and complementary actions by other jurisdictions and entities, including the Province of B.C., federal government, municipalities and stewardship agencies such as Recycle BC.
- **Material Stream Diversion:** New policies implemented in 2024—including landfill bans on wood waste, carpet and underlay and asphalt shingles, along with a modernization of the tipping fee structure and increased bylaw enforcement—have resulted in the waste per capita rate dropping by more than 50 tonnes per person in just two years. Continued implementation of the material diversion policies will involve ongoing management of the material diversion transfer station at Hartland Landfill, transport and processing contracts for newly diverted materials, and increased resourcing requirements to account for additional materials handling, processing and, in future years, increased bylaw enforcement.

Note: Increased material diversion results in lower solid waste tipping fee revenue and increased operating costs to facilitate the market price of material diversion alternatives.

- **Material Diversion Depots:** The Hartland public drop-off area continues to experience increased customer volumes and Saturday operating hours were increased by three hours in October 2025. There are increased WorkSafe BC requirements when receiving homeowner renovation and demolition materials at the landfill. As part of the SWMP, staff will be investigating options to increase access to recycling depots in other areas of the region.
- **Organics/Kitchen Scraps:** Organic waste made up 16.7% of the material received at Hartland Landfill in 2022. The kitchen scraps transfer station has been relocated on-site and will require continued staffing to ensure diversion and processing of the segregated food waste materials. Increased organics collection would require evaluation of processing capacity in the region and on the island.
- **Resource Recovery/Landfill Gas Utilization:** The CRD entered into a 25-year agreement to upgrade landfill gas generated at Hartland Landfill to RNG and sell it to FortisBC. An RNG upgrade facility that is operated by Waga Energy through its subsidiary Hartland Renewable Resource Group, came online in 2025 and is expected to reduce the capital region's greenhouse gas (GHG) emissions by approximately 450,000 tonnes of carbon dioxide equivalent over the next 24 years (equivalent to removing 3,900 cars from the road).
- **Landfill Operations:** Landfilling waste in Cell 4 began in early 2025 and commercial traffic moved to the northern access on Willis Point Road to accommodate the fill plan and better ensure safe commercial truck traffic movement. Cell 5 construction is underway in preparation to receive refuse once Cell 4 is full.

OPERATIONAL STATISTICS (2025 DATA)

- Received and disposed of **150,441 tonnes of waste** that, distributed across the region, equals 330 kg/capita. The 2025 figure marks a decrease of 70 kg/capita from 2021.
- Issued **578 tickets and 26 warnings**, primarily related to banned materials in garbage.
- Achieved a **66% gas collection efficiency** based on the generic landfill gas model outlined in the provincial regulation, and a 77% gas collection efficiency based on the model developed to support the Federal Landfill Methane Regulation that will be enacted in January 2028.
- Completed **250 days of curbside service** for recyclable materials collected from single-family homes, with only eight instances of service delays due to weather or mechanical issues and two days without any service due to winter weather conditions.

04 Services

The services listed below rely on the support of several corporate and support divisions to operate effectively on a daily basis. More information about these services is available in the Corporate Services and Government Relations Community Need Summaries.

SERVICE BUDGET REFERENCES¹

- › 1.521 & 1.525 Environmental Resource Management

STAFFING COMPLEMENT

Environmental Resource Management Division: **32.4 FTE (including three Managers and one Administrative Support)**

1. DIVERSION SERVICES

Description

Responsible for solid waste management planning in the capital region, including policy and program development to increase waste reduction or recycling.

What you can expect from us

- ▶ Planning and policy development activities include the SWMP, the administration of 35+ contracts and agreements and several waste facility-related bylaws.
- ▶ Delivery of several recycling programs, including curbside collection from 138,000 households and packaging, printed paper and glass collection from six electoral area depots. Today, the Hartland recycling facility collects more than 80 items from 28 product categories.
- ▶ Implementation of new diversion policies that will reduce the amount of waste received at Hartland Landfill and increase reuse, recycling, recovery and beneficial use.
- ▶ Delivery of transfer services that divert recyclable construction and demolition materials, including wood waste and asphalt shingles.

¹ Service budget(s) listed may fund other services

2. LANDFILLING SERVICES

Description

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 the ENV landfill regulations, including leachate and landfill gas management infrastructure.

What you can expect from us

- ▶ Administration of five contracts and agreements
 - ▶ Residential service at bin area (9 am–5 pm weekdays, 7 am–5 pm Saturdays)
 - ▶ Commercial service at Hartland Landfill active face (7 am–5 pm weekdays and Saturdays)
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3. RESOURCE RECOVERY SERVICES

Description

Installation and operation of landfill gas 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.

What you can expect from us

- ▶ Production of RNG from upgraded landfill gas for sale to FortisBC, reducing GHG emissions by approximately 450,000 tonnes carbon dioxide equivalent over the next 25 years (beginning in 2024).
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4. HARTLAND ENVIRONMENTAL PROGRAMS

Description

Monitoring, assessment and technical reporting to support regulatory compliance and contaminant reduction at Hartland Landfill.

What you can expect from us

- ▶ Regulatory compliance monitoring of surface water, groundwater, landfill gas and leachate

05 Initiatives

Below are the initiatives listed in the [Capital Regional District 2023-2026 Corporate Plan](#) and the related initiative business cases (IBCs). For an overview of the financial impacts, including cost of staffing, please refer to the Provisional Budget report.

Initiative	Implementation year(s)
3a Goal: Maximize solid waste diversion & resource recovery from waste materials	
3a-1 Develop and implement new and enhanced waste diversion policies	Ongoing
▶ IBC 3a-1.1 Hartland 2100	2024-ongoing
▶ IBC 3a-1.2 Hartland 2100	2025-ongoing
▶ NEW IBC 3a-1.4 Hartland Gas Technician	2027-ongoing
▶ NEW IBC 3a-1.5 Port Renfrew Garbage and Recycling Depot Attendant	2027-ongoing
▶ FUTURE IBC 3a-1.3 Hartland 2100 (Revised)	Planned for 2028
▶ FUTURE IBC 3a-1.6 Hartland Admin	Planned for 2028
3a-2 Investigate regional waste flow management	2025
3a-3 Increase multi-family dwelling and industrial, commercial and institutional sector waste diversion	Ongoing
3a-4 Explore beneficial uses for solid waste residuals	Ongoing
▶ RELATED IBC see 1b-4.2 Innovative Projects Work Unit in Wastewater Community Need Summary	2025-ongoing
3a-5 Financially sustainable service delivery	Ongoing
3b Goal: Outreach & engagement with communities	
3b-1 Ongoing engagement and outreach on all major policies and new diversion programs and plans	Ongoing

06 Performance

GOAL 3A: MAXIMIZE SOLID WASTE DIVERSION & RESOURCE RECOVERY FROM WASTE MATERIALS

Targets & Benchmarks

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).

Measuring Progress

	Performance Measure(s)	Type	2025 Actual	2026 Forecast	2027 Target
1	Solid waste disposal target rate of 250 kg/person per year by 2030 ¹	Quantity	330kg/capita	340 kg/capita	335 kg/capita
2	Capture 75% of landfill gas at Hartland Landfill ²	Quantity	66%	55%	75%
3	Airspace Utilization Factor (AUF) at Hartland Landfill of 0.76 MT/m ³	Quantity	0.67 MT/m ³	0.70 MT/ m ³	0.76 MT/ m ³

¹ Annual kilograms of solid waste per capita; calculation based on provincial Municipal Solid Waste methodology

² Percentage of landfill gas captured at Hartland Landfill; data from CRD staff measurement and calculation

³ Tonnes of waste per cubic metre of airspace including cover materials; data from CRD staff measurement

Discussion

- **Metric 1:** Per capita disposal rate has decreased significantly, in part, due to the introduction of new material bans from the general refuse stream, an increase in materials used for on-site beneficial use, and an increase in food scraps moving through the kitchen scraps transfer station.
- **Metric 2:** Landfill gas capture has decreased due to challenges in expanding reach of the existing gas collection system. These challenges are expected to be resolved in 2027 and 2028, leading to improved landfill gas collection efficiency.
- **Metric 3:** Airspace Utilization continues to improve with increased focus on cover material usage and improved landfilling compaction techniques. Engineering staff are working with our heavy equipment contractor to continually improve compaction and reduce cover usage.

GOAL 3B: OUTREACH & ENGAGEMENT WITH COMMUNITIES

Targets & Benchmarks

- A new Solid Waste Market Research and Engagement Study was completed in 2024 to establish baseline data and assess behaviours, attitudes, program resources and communication strategies. This study will be completed every three years to measure effectiveness of solid waste education and communication programs.

07 Business Model

PARTICIPANTS	Service users (no requisition)
FUNDING SOURCES	Fee-for-service: landfill tipping fees Commercial revenue: Extended Producer Responsibility programs, sale of recyclable materials, sale of renewable natural gas made from upgraded landfill gas
GOVERNANCE	Environmental Services Committee