

# Burin Peninsula Regional Service Board

Presentation for Municipalities NL

April 2024

# Burin Peninsula Regional Service Board - About Us

- ▶ The Burin Peninsula Regional Service Board was appointed in July, 2013 in accordance with the Regional Services Board Act 2012.
- ▶ Per the Burin Peninsula Regional Service Board Order and Registration, the Board is granted the “power to construct, acquire, maintain and operate a waste management system for the Burin Peninsula Region.”
- ▶ The Board is comprised entirely of municipal representatives, each appointed through a democratic process
- ▶ Board operates with a surplus annually, while maintaining among the lowest rates in NL for waste processing
- ▶ Board’s regional program includes a number of activities and initiatives that can be considered best practices for the province
- ▶ Programs aim to offer fair, optimal service for all users, while continuously working to improve environmental stewardship

## Burin Peninsula

## 25 Municipalities

## 8 Local Service Districts

18,881 Residents  
(2021 Census)

9060 households on  
weekly collection

82 businesses on weekly  
collection

## 1 Regional Waste Management Facility (18 closed in region)



# Current Board

- ▶ Harold Murphy, Chair (Representative At-Large; Mayor of Parker's Cove)
- ▶ Keith Keating, Vice-Chair (Representative for Town of Marystown; Councillor, Marystown)
- ▶ Wally Scott, Director (Representative for Fortune Bay East; Mayor of St. Bernard's-Jacques Fontaine)
- ▶ Jack Burfitt, Director (Representative for Town of Grand Bank; Councillor, Grand Bank)
- ▶ Josiah Grandy, Director (Representative for Central Area; Councillor, Frenchman's Cove)
- ▶ Shane Kearney, Director (Representative for Greater Lamaline; Deputy Mayor of Lawn)
- ▶ Brian Keating, Director (Representative for Town of Marystown; Mayor of Marystown)
- ▶ Roy Kendall, Director (Representative for Town of Fortune; Councillor, Fortune)
- ▶ Colin Murphy, Director (Representative for Placentia West; Deputy Mayor of Parker's Cove)
- ▶ Kevin Lundrigan, Director (Representative for Town of Burin; Mayor of Burin)
- ▶ Jim Mullett, Director (Representative for Burin Exterior Area; Councillor, Lewin's Cove)
- ▶ Mike Stacey, Director (Representative for St. Lawrence Area; Councillor, St. Lawrence)

# Operations

- ▶ The Board operates a regional waste management facility, north of Marystow. The facility is open for waste delivery five days/week (Tuesday to Saturday), and open on Monday for office operations.
- ▶ The Board employs a staff of 11, including: General Manager, Finance Clerk, Executive Assistant, Legal Assistant, Heavy Equipment Operator II (three), Heavy Equipment Operator I (two); Scale House Attendant; and Site Attendant.
- ▶ The facility includes a number of assets compiled with the support of: Department of Municipal and Provincial Affairs; Department of Environment and Climate Change (NL); Multi-Materials Stewardship Board; Federation of Canadian Municipalities; Environment and Climate Change Canada; Department of Industry, Energy and Technology; Department of Immigration, Population Growth and Skills; Department of Transportation and Infrastructure; and through the dedicated work and innovation of our board, staff, and partners in the region.

# Collection Contract

- ▶ Contracted for five years
- ▶ Contract covers full region
- ▶ Trucks are split compartment (60/40) and fully-automated
- ▶ Ten bulk collections per year
- ▶ Mandatory bins in effect since 2019

# Regional Waste Management Facilities

- ▶ Public Drop-Off
- ▶ Scale House and Office Trailer
  - ▶ 80' electronic scales
  - ▶ Scale data maintained
  - ▶ Free residential drop-off
  - ▶ Relatively low commercial rate
- ▶ Maintenance Garage
  - ▶ Constructed Under JCP

# Regional Waste Management Facilities

- ▶ Organic Processing
- ▶ Sludge/Wastewater
- ▶ Metal Recycling
- ▶ Wood Separation
- ▶ Construction and Demolition Separation
- ▶ Unlined Landfill
  - ▶ Topographic data
  - ▶ Monitoring wells
  - ▶ Leachate Treatment Pilot/R&D Ongoing
- ▶ Concrete composting pad with leachate treatment
- ▶ Monitoring wells for landfill and compost
- ▶ Electronics Recycling Depot
- ▶ Household Hazardous Waste Depot
- ▶ Tire Recycling and Paint Recycling
- ▶ Aquaculture Net and Twine Reuse Program

# Equipment Fleet

- ▶ Two excavators
- ▶ Front-end loader
- ▶ Landfill compactor
- ▶ Dozer
- ▶ Two hook-lift trucks
- ▶ Tag-along trailer
- ▶ Feed mixer
- ▶ Farm tractor
- ▶ Pickup with salter
- ▶ Wood Chipper

# Regional Facility



# Landfill



# Public Drop-Off



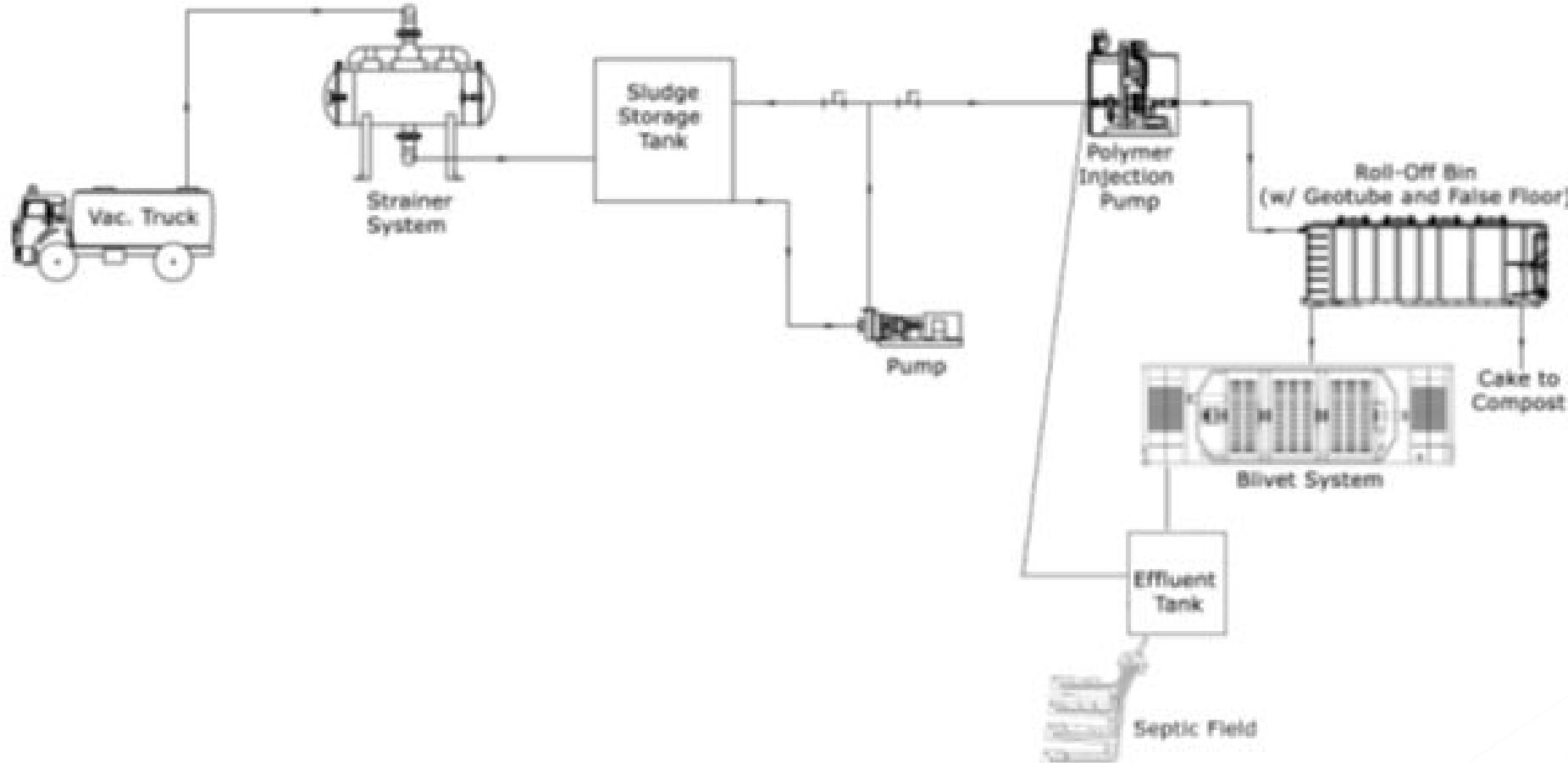
# Public Drop-Off

- ▶ Internal conceptual design, engineered by Meridian Engineering
- ▶ Service enhances site safety, keeping site users away from landfill
- ▶ Service enables users to visit site in any size vehicle
- ▶ Hook-lift truck collects bins on rotation, using multi-stream diversion

# Dewatering Facility



# Sludge/Wastewater Processing



# Sludge/Wastewater Processing

1. Vacuum truck is offloaded into strainer system, in order to remove large debris before material reaches sludge storage tank.
2. An agitation pump is used to stir settled material.
3. Once material is agitated, valves are redirected to enable material to reach polymer injection system.
4. Following injection of polymer/coagulant, material is pumped into a Geotube, housed inside a roll-off bin. While dewatering, liquid filters from Geotube into false floor, and is gravity fed into the packaged sewage treatment plant (Blivet system).
5. Solids remain in the Geotube, while effluent is treated in the packaged sewage treatment plant (Blivet system).
6. Effluent is then recycled back to the polymer injection system as a water source for mixing of polymer.
7. Excess treated effluent will be discharged to a septic field.
8. Leachate from compost will be collected through a sloped slab, and recirculated back to the sludge storage tank for treatment.

# Sludge/Wastewater Processing

- ▶ Dewatering system installation completed in 2022, supported through Climate Change Challenge Fund (Federal-Provincial Bilateral Agreement) and Regional Development Program (Industry, Energy and Technology).
- ▶ Includes dewatering system, packaged wastewater treatment plant, and septic field.
- ▶ Previous process involved treatment with lime in cesspool
- ▶ System commissioning ongoing

# Dewatering Building and Packaged Sewage Treatment Plant



# Dewatering System



# Blivet Installation and Slab Construction



# Mobile Bin Collection System

- ▶ Pilot funded by MMSB
- ▶ Scheduled collection rotating between municipalities/sub-regions
- ▶ Intended to provide convenient service to areas over 50 km from regional site
- ▶ Program runs on weekends from April to October
- ▶ Town required to provide space for collection, backhoe for lifting material, and an on-site representative
- ▶ Service is convenient for residents, and works to mitigate illegal dumping
- ▶ Collection area is clean at end of each event
- ▶ Program has received praise and letters of support from participating municipalities

# Mobile Bin Collection System



# Mobile Bin Collection System



# Mobile Bin Collection System



# Organic Processing (Composting)

- ▶ Windrow composting system used
- ▶ Composting Pilot supported by MMSB, AESL (JCP), and Town of Grand Bank, with material from Sobeys, OCI, Clearwater, and Town of Grand Bank
- ▶ Pilot produced CCME and BNQ Category A standard compost with “no limitations for usage”
- ▶ Pilot project received accolades, and was featured in national publication
- ▶ Processes sea cucumber from fish processing operations, and hatchery waste from Grieg Seafood; resulting materials used by Board on site.
- ▶ Processes material from Green Crab Mitigation Project, in partnership with Marine Institute, Memorial University, FFAW, and M&E Fur Farms

## Compost Pad (100' x 60')



# Compost Slab with Sawdust



# Sawdust



# Composting Pilot - Media Coverage



**ORGANIC MATTERS**

Left to right: Consultant and consultant Paul van der Werf (Bog Inc.), Mike Dempsey (Councilor, Town of Grand), Hazel Murphy (Chair, SPINNL), Joe Petrone (Business Manager, SPINNL), Mike Lamore (Councillor, NLPC), Pat Rose (Former Councillor, Town of St. Lawrence), Karen Strelakowski (Former Councillor, Town of Grand Bank), Tom Henderson (Parliamentary Assistant to the Premier and former Minister, Department of Environment and Conservation)

## Simple is Sometimes Better

by Paul van der Werf

"Pitman sees this as a visible option in place of long-hauling wastes to regional sites."

**Compost pilot project on Newfoundland's Burin Peninsula processes organics and paper fibre**

I have a special affinity for Newfoundlanders; there's a unique resilience to them. The Irish folks with whom I've spent time, they're welcoming, approachable and quite happy, by and large.

Once the fun of jokes, the province requires confidence as its vision moves with oil and gas development, moving past the decline of the fisheries and that way of life.

Also reminiscent of the Ireland (in the 2000s), Newfoundland is wrestling with the modernization of its waste management system. The process of consolidating facilities from many to a few regional facilities is well underway.

The struggle is born of demography and geography. The population of 550,000 lives in a few urban centres and significant rural (and in many cases remote) areas. Questions arise over how far is one should be prepared to drive waste to centralized facilities. A rural and sparsely settled exists, too. Does one want to take away the (admittedly limited but calculable) value of waste, in terms of local economic activity?

Put more simply, in this age of "Conscious" is there room for decentralization and "man and pup" areas?

Cross the relatively small amounts of waste and the long distances

to be travelled, waste diversion is an expensive proposition for small and remote municipalities.

Recycling of paper and packaging materials requires a consolidation step and, regardless of where that happens, it then needs to be transported elsewhere (typically off island) for processing. Either way, it's costly for rural and remote municipalities.

The management of organic wastes offers more obvious decentralized opportunities for two reasons: low cost, low tech approaches can be used and, the resultant products, such as compost, can be used locally. (The avoidance of long-haul hauler strengthens the value proposition.)

**Burin Peninsula pilot**

The Multi Material Stewardship Board (MMSB) ([mmsb.ca](http://mmsb.ca)) is, among many things, an incubator of waste diversion ideas. The Burin

December 2013/January 2014 [www.solidwastemag.com](http://www.solidwastemag.com) 20



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**Over 9,000 readers weekly!**

**Second phase for curbside composting pilot**  
All 1,200 households in Grand Bank encouraged to take part

**Inside this week**

Bear spotting in Marystown ..... A2  
Labour comes to Carbone River ..... A2  
Labour-Labour coalition ..... A2  
Trade fair underway in region ..... A2  
Sports ..... E1-E2

**St. Lawrence sea-cadet MC Justice Beck was elected during his corps' annual inspection. More on Page E1 and E2.**

**Young girl with the St. Lawrence High High Gymnastics. More on Page E1.**

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By PAUL HENDERSON  
THE SOUTHERN GAZETTE

Henderson, who is also the minister responsible for the Multi-Material Stewardship Board (MMSB), made the announcement from the

"I encourage all residents of the Town of Grand Bank to participate in the program and help guide Newfoundland and Labrador to a

# Composting



# Composting



# Composting



# Composting



# Composting



# Service for LSD of Southeast Bight

Pilot commenced in 2022

Waste collected via ferry terminal

Same fee structure as used throughout region

Positive response from community

# Policies: Special Event Collection

- ▶ **Policy: What Constitutes Special Events for Municipalities**
- ▶ All Municipalities will be allowed 2 special events and 1 traditional clean up per year.
- ▶ Towns and LSD's are responsible for transporting the waste from the traditional clean-up to the waste site and must notify the Board prior to the event. Tipping fees will be waived for these events. Any Town or Local Service District who send their own truck to the waste site can use it as a special event and not be charged, but will forfeit their town's special event for the remainder of the calendar year.
- ▶ Towns may request a bin for two of these events once a year. Events requiring bins will be subject to the availability of equipment and staff, and should be booked well in advance of the event.
- ▶ To clarify the policy on Special Events: For the purpose of this policy the definition of a special event will be left to the discretion of the town subject to BPRSB approval.

# Policies

- ▶ **Policy: Towns Demolishing House per year**
- ▶ All Towns or Local Service Districts with a population of less than 1000 can dispose of (1) one building up to a maximum of 40 ton per building per year for a disposal fee of \$1000.00. Towns that have a population of 1,000 or greater can dispose of (1) one demolition building per 1,000 population (rounded to the nearest 1,000) per year for a fee of \$1,000 each. Anything above 40 ton will be charged a tipping fee of \$98.00 per ton. A Town or LSD can carry forward unused credit for (3) years to a maximum of (3) three buildings. There will be no partial homes. Towns or LSD's must have acquired ownership of these buildings.
- ▶ **Policy: Sewage Tipping Fee Invoices from Towns and LSDs**
- ▶ Towns or Local Service Districts that need to pump sewage from town infrastructure may forward their sewage tipping fee invoice from the contractor to the BPRSB. The boards Technical Committee will review the invoice and make a recommendation to the board on whether a credit be granted to the Town or LSD.
- ▶ Factors that will be considered are the cost of the disposal to the town and the overall impact on the BPRSB budget.

# Policies: Tipping Fee Structure

- ▶ **Policy: Site Tipping Fee Structure**
- ▶ Effective January 01, fees for industrial/commercial/institutional waste processing are set at \$98/short ton (\$109.76/metric tonne) for landfill waste and paper fibre, and \$75/short ton (\$84/metric tonne) for organic materials. A tipping fee rate for dredge and concrete material in excess of 8 inch minus has been set at \$25.00/short ton (\$27.56/metric tonne). The tipping fee for material that is in the range of 6 inch minus and 8 inch minus has been set at \$10.00 per short ton (\$11.02/metric tonne).
- ▶ All vehicles and trailers entering the landfill site will have their license plates and weights monitored. Commercial accounts will be charged fees as outlined above. All Vehicles that travel past the public drop-off and on to the landfill will be charged regular tipping fees. All vehicles with residential waste using the public drop-off, may drop off waste free of charge up to 2000 pounds. Every visit will be logged and visitors will be given a weigh slip for information purposes. If residential users feel that they will go over the 2000 LB limit, they will be required to explain their reason to the General Manager. If there are extenuating circumstances, then a request may be made to the BPRS Board Technical Committee for an exemption. This limit has been put in place to control the amount of commercial garbage being disposed of as residential. It is not the intention of the Burin Peninsula Regional Service Board to charge residential customers for public drop-off, of legitimate personal waste.
- ▶ In the event of technical difficulties with the site scales, the General Manager has the authority to set up a “per-load fee”.

# Other Services (Current and Prospective)

- ▶ Legal Assistant
  - ▶ Assists BPRSB with legal processes - usually involving unincorporated areas
  - ▶ Assisting small municipalities and local service districts with small claims processes
- ▶ Server
  - ▶ Potential to operate server for municipal information management
- ▶ Tool and Equipment provision
  - ▶ Potential to hold inventory of resources for regional use
- ▶ Water Treatment Technicians

# Other Services (Current and Prospective)

- Our recommendation would be that services would be provided on a demand basis, and towns and local service districts would be able to opt out of services. The regional services provided would be developed in consultation with the towns, local service districts, and unincorporated communities of the region. Some examples of regional services for which we envision providing services and assistance to our region include:
  - 1. Office support - accounts payable and receivable, payroll and taxation
  - 2. Regional water operations and wastewater testing
  - 3. Regional purchasing of specialized equipment (i.e.: leak detection, sewer cameras, etc.)
  - 4. Regional municipal enforcement
  - 5. Municipal maintenance supports
  - 6. Regional fire protection
  - 7. Regional recreation supports
  - 8. Regional engineering services

# Thank you!

Harold Murphy (Chair) & Joe Pittman (General Manager)

Burin Peninsula Regional Service Board

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