



REGIONAL DISTRICT
of Fraser-Fort George

Multi-Material Recycling Services: Update for Mackenzie

MAY 6, 2024

Outline

- Glossary and terms
- Extended Producer Responsibility
- Current Service Delivery Model
- Recycle BC
- Impacts to Mackenzie
- Questions & Comments



Glossary and Terms

- MRF: Materials Return Facility
 - Processing plant for collected recyclables
- PPP: Packaging and Printed Paper
 - Schedule 5 of the Recycling Regulation
 - Residential packaging and paper recycling in BC including paper, cardboard, plastic containers, cartons and paper cups, aluminum containers, glass bottles and jars, flexible plastics and foam packaging
- RBC: Recycle BC
 - Stewardship Agency responsible for managing all the residential PPP in the Province of BC

Glossary and Terms

- MMRS: Multi-Material Recycling Service
 - Service established by the RDFFG in partnership with Cascades Recovery+ to provide collection of some PPP materials within the Transfer Station network
- MMRB: Multi-Material Recycling Bins
 - Bins leased from Cascades Recovery+ and used for collection of cardboard, cartons and containers and mixed paper at RDFFG transfer stations
- EPR : Extended Producer Responsibility
 - A provincial policy tool that aims to shift the responsibility for end-of-life management of products to the producer and away from local governments

Glossary and Terms

- ICI: Industrial, Commercial and Institutional
 - Term used to refer to materials collected from this sector of the population.
 - Recycle BC does not accept material from the ICI sector
- Principal Depot
 - A depot in which Recycle BC is responsible for bin provision, hauling, marketing and processing costs
- Satellite Depot
 - A Recycle BC depot, where the local government or First Nation is responsible for the provision of recycling bins as well as the hauling of recyclables to a principal depot

Extended Producer Responsibility

- EPR = Extended Producer Responsibility
 - Is a provincial policy tools that aims to shift the responsibility for end-of-life management of products to the producer and consumer and away from local governments
 - It is intended to create an incentive for producers to include environmental considerations in design of products
- Mandated by the Recycling Regulation 449/2004 under the *Environmental Management Act*



Extended Producer Responsibility

- Producers of designated products often appoint a stewardship agency to collect EPR products on their behalf
 - There are referred to as stewardship programs
- EPR requires the producers to set up collection and management system for products listed in the regulation including Packaging and Printed Paper (PPP)



Recycle BC

- Recycle BC is the Stewardship agency appointed by the producers of PPP to collect, manage and market these materials in BC
- Currently 22/27 RD's have some type of service agreement with RBC
- Recycle BC is mandated to ensure collected recyclables make it to end markets
- There is economy of scale in signing with Recycle BC as they have agreements with PRRD, CRD and RDBN



Past Recycle BC Offers

- Recycle BC has made two formal offers to the RDFFG (2013 and 2018)
- Both offers have been rejected by the RDFFG
 - At the time, the Board preferred for the RDFFG to continue to provide this service outside of the appointed stewardship agency
 - However, the scenario has now changed, where the old service delivery model is no longer available to the RDFFG potentially making a partnership with RBC more desirable now

Current Scenario

- In 2023 Cascades Recovery+ approached the RDFFG with the announcement that they were curtailing hauling and bin provision in Northern BC
 - In Fall 2023, the RDFFG tendered 5 new hauling contracts and one contract for caretaker services to new service providers
- The most complex contract with Cascades Recovery+ is the Multi-Material Recycling Services
- On April 5, 2024 Recycle BC extended an offer to RDFFG for three principal depots
 - Quinn Street Regional Recycling Depot
 - Mackenzie Regional Transfer Station
 - Valemount Regional Transfer Station
- This offer was accepted by the RDFFG Board on April 18, 2024



Recycle BC Service Model

- Recycle BC is the stewardship agency responsible for packaging and printed paper in BC under the *Recycling Regulation*
- Two Service Models: Curbside pickup and Depot Collection Service
- Prince George is the only member municipality to curbside collection
 - This service delivery is not set to change
 - Other member municipalities do not qualify for curbside collection because they do not meet Recycle BC's population criteria

Depot: Principal vs Satellite

- Recycle BC has very specific criteria for which sites would qualify for principal and which qualify for satellite
- A principal depot is one where RBC is responsible for the hauling of the collected recyclables
- At a satellite depot, the RDFFG would be responsible for hauling costs to the nearest principal depot

Recycle BC Principal Depot Requirements

Distance to Municipality

- Recycling depot must be more than 40 km from a local municipality or principal depot
- This includes how close the depot is to other RBC depots

Other Requirements

- Facility must have operational hours
- Facility must have a local store
- Area must have over 1000 full time residents



Principal Depots

- Recycle BC is responsible for:
 - The provision of the bins for collection of recyclables
 - The hauling of collected recyclables to a multi-sort facility
 - The processing and marketing of all collected recyclables
- There are also educational tops ups and fees paid to the RDFFG for collection of these materials
- Three of the RDFFG's sites have qualified and been extended an offer as a principal depot
- Phase 1 of partnering with Recycle BC is to get the three principal depots operational as soon as possible

RBC Financial Incentives & Top Ups

Material Grouping	No Curbside/Multi-Family	With Curbside/Multi-Family
Paper and cardboard	\$138.16/tonne	\$94.20 /tonne
Containers	\$256.33/tonne	\$141.30/tonne
Plastic Bags & Overwrap	\$1,250/tonne	\$1,250/tonne
White Foam	\$2,000/tonne	\$2,000/tonne
Coloured Foam	\$2,000/tonne	\$2,000/tonne
Glass Containers	\$90/tonne	\$90/tonne

Education Top Up

\$0.75 per household in area with no curbside collection

Fines

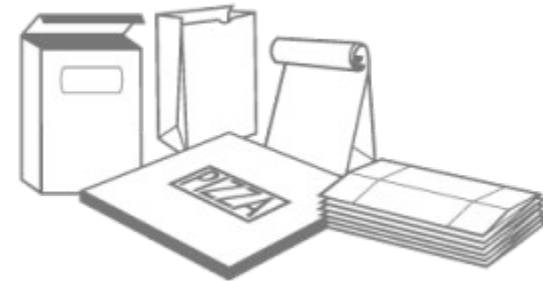
- A critical component to operating a Recycle BC depot is ensuring that ONLY compliant material is collected.

	Service Level Failure	Service Level Failure Credit
1	Failure to clean-up or collect materials that have spilled outside the Depot boundary within 2 hours.	Twice the cost of cleanup incurred by Recycle BC (if Recycle BC performs the cleanup) and \$500 per incident (regardless of who performs the cleanup).
2	Pick up by the Designated Post-Collection Service Provider of materials that contain more than 3% by weight of Not Accepted Materials.	\$5,000 per weigh-scale ticketed load, provided that the aggregate Service Level Failure Credit for this Service Level Failure in respect of any calendar year shall not exceed \$120,000.
3	Contractor delivers In-Scope PPP collected at a Depot to any person or facility (including without limitation a landfill, incinerator or energy recovery facility) other than the Designated Post-Collection Service Provider or otherwise disposes of any In-Scope PPP collected at a Depot without the prior written authorization of Recycle BC.	\$25,000 per incident.

All Recycle BC Depot Collection Requirements

All depots must collect:

- fibres (mixed paper)
- containers
- **plastic film**
- **expanded polystyrene foam (foam)**
- **glass containers**



Recycle BC Depot Requirements

Security

Recycling depot must not be accessible when the site is closed:

- site must be fenced with locking gate
- locked collection containers minimizes potential contamination

Staffing

- Sites must be staffed to interact with public to educate re contamination reduction
- Regular checks of collected material
- Removal of improperly sorted & unacceptable materials

Customer Support and Reporting

- A partnership with Recycle BC would require additional customer service and administrative support
- ESA will assess whether an additional .5 position would be required to meet all the requirements in the contract
- Additional reporting requirements are part of the Master Service Agreement, including customer complaint logs, inspection reports and inventory reports.

Potential Operational Hour Impacts

- The Mackenzie site is currently is closed Friday and Saturday
- With the accepted offer from Recycle BC it is anticipated that the Mackenzie TS would expand its hours to six or seven days a week to accommodate this additional service
- It is also anticipated that Environmental Services will add an additional Full Time supervisory position to help manage this program and the site

Current Financial Costs

- The Multi-Material Recycling Services is funded from the 3305 and 3307 budgets
- The current budgeted amount of this program is \$459,000 to support the three locations in Prince George and \$510,000 to run the program in the rural areas.
- Accepting the Recycle BC offer would transfer some of the current operating costs to Recycle BC

2023 Financial Costs for the three principal depots

Site	Hauling	Processing	Bin Rental	Total
Quinn Street Regional Recycling Depot	\$84,084	\$46,266	\$11,025	\$141,375
Mackenzie Regional Transfer Station	\$120,056	\$13,814	\$11,025	\$144,895
Valemount Regional Transfer Station	\$53,161	\$17,926	\$4,410	\$75,497
Totals	\$257,301	\$78,006	\$26,460	\$361,767



Restrictions and Access

- Recycle BC is a program that is only accessible to residential users
- The program must be run out of the Mackenzie Transfer Station
- Any collected material that is 'charged' is not accepted in the program – it is considered ICI if a charge to collect recyclables is applied by 3rd party
- Recycle BC has strict contamination fines and rules in place requiring ALL material deposited into the program to be screened

ICI Options

- The RDFFG intends to continue operating the cardboard compactor that is currently at the Mackenzie transfer station
- ICI customers will be allowed to deposit their cardboard in this compactor
- It is possible a small charge may apply to using the compactor but that has not been determined yet

Timelines

- By May 31, 2024 ALL multi-material recycling bins currently in service within the RDFFG will be pulled
- There will be a period where the RDFFG works with Recycle BC to sign contracts
- Once the contracts are signed, Recycle BC has 90 days to implement the program at the three sites
- It is anticipated that sometime in early Fall the Recycle BC program will be operational at the three principal depots
- The cardboard compactor WILL remain operational throughout this timeframe



Next Steps

- The RDFFG is working to execute the contracts with Recycle BC
- Once signed, Recycle BC has 90 days to implement their program
- After the principal depots are operational, ESA can work with Recycle BC on satellite locations
 - There are no anticipated satellite depot locations North of Prince George at this time



Questions and Discussion

