

Peel's Organics and Yard Waste Processing Plan

Waste Management Strategic Advisory Committee Meeting April 7, 2022

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Background

- A new long-term organics diversion plan is required.
- Staff considered retrofitting and expanding in-house capacity and procuring merchant capacity.
- Staff conducted market sounding to better understand availability of merchant capacity.

Green Bin Organics Processing Requirements



Expand Green Bin program to include diapers, sanitary products, and pet waste and allow the use of non-compostable plastic bin liners.



Meet the Region's diversion target of 75 percent 3Rs diversion by 2034.



Meet the Provincial organics waste reduction and resource recovery targets: 70% curbside by 2023 and 50% multi-residential buildings by 2025.

Market Findings - Organics



Sufficient processing capacity exists or can be made available.



Some use Anaerobic Digestion technology. Some use Composting.



Most can or will be able to process diapers and pet waste at a \$20/tonne premium.



Retrofitting Peel's in-house system to process diapers and pet waste could be a challenge.



Others are interested in developing new facilities if coupled with a 20-year contract.



Some are interested in short-term (5-year) contracts.

Green Bin Organics Processing Options

1. Secure short-term merchant capacity
2. Secure long-term merchant capacity
3. Retrofitting Peel's in-house composting system
4. Combination of options 1-3 above

Yard Waste Processing Requirements



The need for Yard Waste processing will be dependent on the outcome of the Green Bin Organics processing study.



Meet the Region's diversion target of 75 percent 3Rs diversion by 2034.



Meet the Provincial organics waste reduction and resource recovery targets of 70% curbside by 2023.

Market Findings – Yard Waste



Capacity is limited to a small number of service providers.



Only one service provider has capacity to process all projected yard waste tonnage.



Most facilities have capacity to process moderate amounts (e.g., 15,000 tonnes to 30,000 tonnes per year).



One service provider indicated possibly expanding facility to process all projected yard waste tonnage.



Those with existing processing capacity are interested in long-term contracts (e.g., 10 to 20 years).

Yard Waste Processing Options

1. Primary Processing at the Peel Integrated Waste Management Facility and Secondary Composting at the Peel Curing Facility
2. Merchant Capacity
3. Combination of options 1 – 2 above

Next Steps

- Staff will further evaluate the options.
- A report for the proposed approach for long-term Organics and Yard Waste processing will be brought to a future Committee meeting.
- Staff will procure up to 5 years of interim processing capacity for both Organics and Yard Waste.

Thank you

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