



## Committee of the whole report

<b>Meeting date:</b>	November 24, 2020
<b>Title:</b>	Waste Management Master Plan Feasibility Report
<b>Prepared by:</b>	Vance Czerwinski, Director of infrastructure and public works
<b>Reviewed by:</b>	Laura Johnston, CAO

### Recommendation

That Committee of the Whole receives the Waste Management Master Plan Feasibility Report for information; and

That Committee of the Whole hereby recommends to Council that a Waste Diversion Study for West Grey be completed in 2021, pending successful funding from the FCM Green Municipal Fund program; and

That any matching funds be included in the 2021 budget, to a maximum of \$30,000.

### Executive summary

As directed by council, this report addresses the following:

- a) the feasibility of developing a Waste Management Master Plan in effort to extend the life of the landfills and to enhance environmental stewardship
- b) the financial and resource implications including consideration for the partial use of the modernization and efficiencies grant to hire a consultant with experience in sustainability, climate change, and grant writing
- c) a brief overview of funding opportunities within the FCM Green Municipal Fund

### Background and discussion

#### **Waste Management Master Plan (WMMP)**

There are a number of qualified engineering firms that have written numerous waste management master plans for municipalities in Southwestern Ontario. A WMMP can be developed for West Grey by taking all of the relevant factors into account, such as existing landfill life span, legislation, current garbage and recycling collection practices, and economic, technical, legal, and scheduling considerations.



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Below is a very general basic work flow to have a WMMP developed:

**Phases/Steps:**

1. Evaluate existing waste management system
  - Demand, system components, costs
  - Waste composition for diversion potential
  - WDO Datacall, municipal records
  - Identify problems
2. Implement public consultation program
  - Outreach for public input into existing concerns and future goals
3. Set goals/vision for Masterplan and waste management system going forward
  - Review relevant legislature and studies
    - **MOE Policy Statement on Waste Management Planning: Best Practices for Waste Managers**
    - *Resource Recovery and Circular Economy Act, 2016*
    - *Waste Diversion Transition Act, 2016*
    - *Environmental Protection Act*
      - Resource Recovery and Circular Economy Act, 2016
      - Waste Diversion Transition Act, 2016
      - Environmental Protection Act
      - Environmental Assessment Act
      - Nutrient Management Act
      - Food and Organic Waste Policy Statement
    - *Environmental Assessment Act*
    - *Nutrient Management Act*
    - *Food and Organic Waste Policy Statement*
  - Federal Initiatives
    - Various published reports to reduce food waste
    - Commitment to implement a single-use plastic ban by 2021
  - Ontario Requirements
    - Blue box program, Industrial, Commercial & Institutional (IC&I) waste separation, legislation to support diversion rates, disposal bans, Construction and Demolition (C&D) waste diversion, electronic and hazardous waste, return program for beverage and alcohol containers
  - Determine and evaluate needs
  - Waste diversion targets such as household hazardous waste and organics
  - Land usage requirements—i.e. landfills
  - Implementation of alternative measures- i.e. incineration
  - Seasonal leaf and yard material collection
  - Policy and bylaw enforcement
  - Promotion and education strategies
  - Industrial, Commercial and Institutional (IC&I) waste diversion



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- Increased demand and curbside collection requirements with population growth projections
  - Material bans
4. Identify and assess alternatives for implementation
  5. Develop implementation plan
  6. Prepare Solid Waste Management Masterplan document

**Waste Diversion Study** – would be a more economical approach to address the key elements in council's request for the feasibility of a Waste Management Master Plan. The purpose of the study would be to find ways to divert waste from landfills, which in turn will prolong the lifespan of West Grey's landfill sites, and enhance environmental stewardship. This would be a more feasible approach as there are significant changes that would alter a WMMP such as the changes in the blue box program and the recent and pending discussions with Grey County regarding a county-wide waste collection program.

## Legal and legislated requirements

Ministry of the Environment Climate Change and Parks (MOECP) – Environmental Compliance Approvals.

## Financial and resource implications

**WMMP** - the estimate for a for a qualified consultant to prepare a WMMP is in the range of \$40,000 to \$150,000 depending on the scope of work and the level of detail stipulated in the terms of reference.

**Waste Diversion Study** – the estimate for a for a qualified consultant to prepare a WMMP is in the range of \$10,000 to \$60,000 depending on the scope of work and the level of detail stipulated in the terms of reference.

In order to offset the cost of a Waste Diversion Study, below is a status and overview of the Modernization and Efficiencies Grant and FCM Green Municipal Fund.

**Modernization and Efficiencies Grant** – West Grey has been utilizing this funding to improve service delivery by finding smarter, more efficient ways for service delivery. The COVID-19 pandemic has significantly changed the way in which service delivery is conducted and West Grey needs to significantly improve the existing IT systems such as the phone system, mobile devices, on-line and debit point of sale systems, and the system to host virtual meetings, and digital signage.

**The FCM Green Municipal Fund** – is specifically for waste diversion studies and supports incentives to encourage diversion, and waste management systems that increase the diversion of waste from landfills.

## Staffing implications

None.



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## Consultation

Triton Engineering Services Limited  
GM Blueplan  
Director of Finance  
MOECP

## Alignment to strategic vision plan

Pillar: Build a better future  
Goal: Stewards of the environment  
Strategy: Find ways to divert waste from landfill sites

## Attachments

None.

## Next steps

Upon the direction of Council, that staff prepare a funding application to the FCM Green Fund for a Waste Diversion Study.

Respectfully submitted:

Vance Czerwinski, Director of Infrastructure and Public Works