



## Update and Next Steps – Resource Recovery Strategy and Residual Waste Disposal Strategy as Part of the Environmental Assessment Process



**Civic Works Committee**  
February 7, 2017



## Overview

1. Starting the City's most significant waste management project since 1975
2. Provincial legislation and regulation continues to evolve
3. One of the lowest cost, integrated waste management systems, in Canada
4. 45% waste diversion
5. About 8 years of waste disposal capacity remains



## Years of Local Engagement



## Preparation of Draft GP

### Need to . . .

- reflect a broad base of community values, concerns and priorities
- support or be consistent with various City plans, programs and policies
- help set direction in development of ToR (e.g., comparative criteria) and other strategies
- help establish project scope and boundaries
- help address mission and vision



## Draft Guiding Principles

- Be Socially Responsible
- Ensure Financial Sustainability
- Ensure Impacts of Residual Waste Disposal are Minimized
- Ensure Responsibility for Waste Management
- Implement more Resource Recovery Solutions
- Make the Future System Transparent



## Draft Guiding Principles (continued)

- Make Waste Reduction the First Priority
- Prioritize our Community's Health and Environment
- Support Development of Business (contractual) Partnerships
- Support Development of Community Partnerships
- Work to Mitigate Climate Change Impacts



# Draft Guiding Principles

## Recommendation a)

Draft Guiding Principles ...**BE ENDORSED** ... for release for community engagement.



# Community Engagement Program

1. Who will be consulted?

2. What Engagement Tools will be Used?

3. What is the Reporting Structure and Timing?



## 1. Who

General Public	Government Review Team	Indigenous Communities
<ul style="list-style-type: none"> <li>Interested residents, businesses and groups</li> <li>City of London Advisory Committee</li> <li>W12A Landfill PLC</li> <li>Waste Management CLC (new)</li> </ul>	<ul style="list-style-type: none"> <li>Environment and Climate Change</li> <li>Agriculture, Food and Rural Affairs</li> <li>Natural Resources and Forestry</li> <li>UTRCA &amp; KCCA</li> <li>MLHU</li> </ul>	<ul style="list-style-type: none"> <li>engage indigenous communities as early as possible</li> <li>facilitate their involvement in the process in ways that meet their needs</li> </ul>



## 1. Who

Includes:

- W12A Landfill PLC
- W12A landfill neighbours



## 1. Who

### New - Waste Management Community Liaison Committee

- Informal sounding board for City staff
- Represents diverse views
- Provides input on public materials
- Assistance in reviewing issues received from the community, as appropriate.



## 2. Engagement Tools

Long Title:

Resource Recovery Strategy and Residual Waste Disposal Strategy as Part of the EA Assessment Process

Short title:

Resource and Waste Strategy (RWS)



Common branding for engagement...



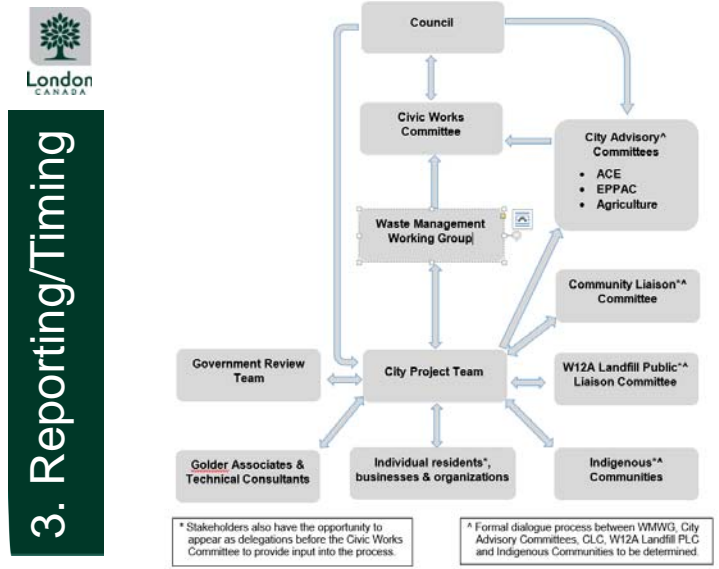


### Open For Feedback



**Adelaide Street at the CPR Tracks (between Central and Oxford Streets)**  
A Municipal Clerk is studying to understand, forecasting and anticipated road improvements at the railway tracks.

**Future City**  
Future City is our community discussion about connecting London to improve our city through technology.



\* Stakeholders also have the opportunity to appear as delegations before the Civic Works Committee to provide input into the process.

<sup>A</sup> Formal dialogue process between WMWG, City Advisory Committees, CLC, W12A Landfill PLG and Indigenous Communities to be determined.



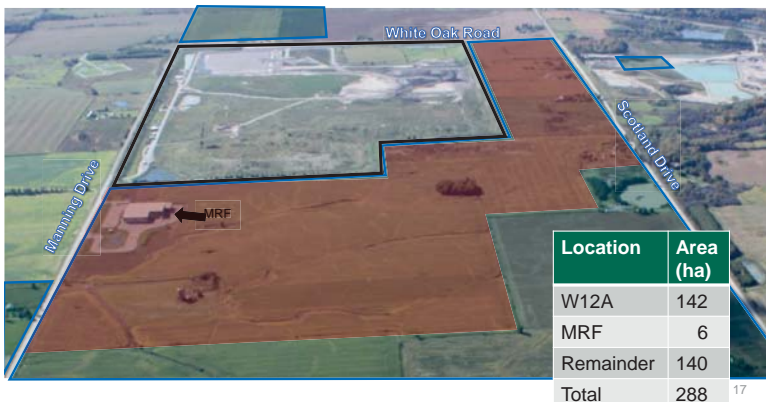
## Community Engagement Program

### Recommendation b)

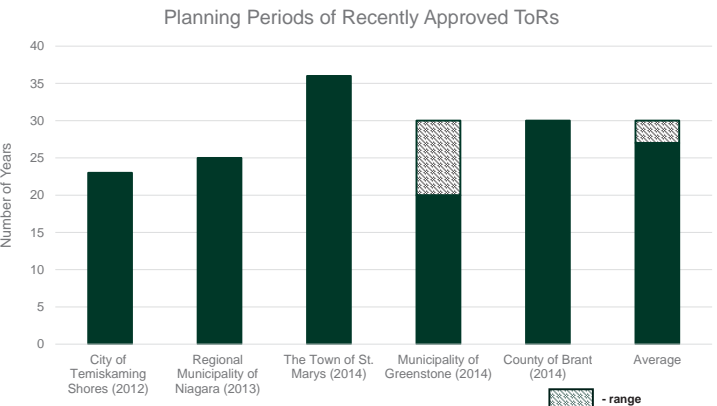
- i. Long list of engagement tools and forums
- ii. 3 categories – general public, Government Review Team and Indigenous Communities
- iii. typical flow of information/reporting structure



## Background - Waste Management Resource Recovery Area



## 1. Length of Time



### Background

1. What **length of time** does the Disposal Strategy cover?
2. What **annual tonnage** could be landfilled?
3. What **service area** does the Disposal Strategy include?
4. How much **residual waste** will require disposal?





# 1. Length of Time

Considerations	New Disposal Planning Periods (years)			
	20	25	30	35
Consistent with Other EAs	✓	✓	✓	✓
Consistent with Waste-Free Strategy	✓	✓	x	x
MOECC Comments	✓	✓	x	x
Understanding of Community Considerations	✓	x	x	x
Financial Considerations	x	✓	✓	✓



# 1. Length of Time

## Recommendation c)i.

The study period for the strategy will be 25 years beyond the current approved capacity of the W12A Landfill of 2025, ending in approximately 2050.

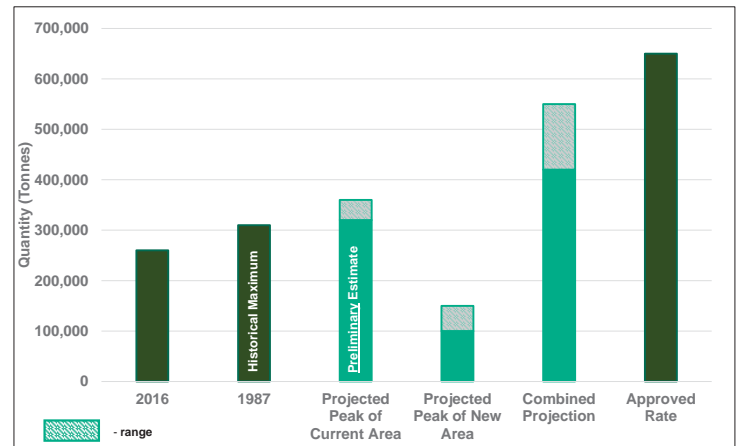


# 2. Annual Tonnage

Tonnes	Waste Disposal at W12A Landfill
260,000	Waste received in 2016
225,000	Average for 5 year period 2012 - 2016
260,000	Average for 5 year period 2007 - 2011
275,000	Highest 5 year average (1984 – 1988)
310,000	Highest year for garbage (1987)
380,000	Highest year for garbage and clean fill (1989)



# 2. Annual Tonnage



# 2. Annual Tonnage

## Recommendation c)ii.

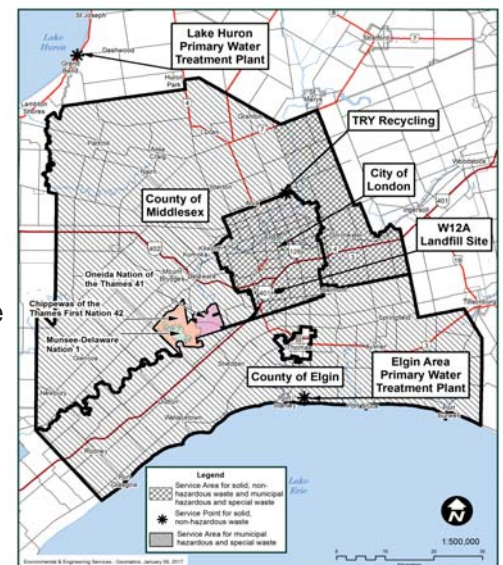
The maximum amount of waste that can be landfilled each year remain unchanged at 650,000 tonnes at this time.



# 3. Service Area

Current:

1. Solid non-hazardous waste
2. Municipal hazardous and special waste
3. Recyclables (Provincial)





### 3. Service Area



Regional



Provincial

Source: TransCanadaHighway.com



### 3. Service Area

Considerations	Service Area		
	Existing	Regional	Provincial
Consistency with Current Approach	✓	✓	✗
Geographic Location (waste shed)	✗	✓	✗
Final Draft Strategy for a Waste-Free Ont.	✗	✓	✓
Provincial Shortfall in Disposal Capacity	✗	✓	✓
Publicly-owned Disposal Option	✗	✓	✓
Community Support	✓?	✓?	✗
Local Nuisance Impacts	✓	✗	✗
Financial Benefit	✗	✓	✓
Backup/Contingency Disposal Capacity	✗	✓	✓
Ease of Approvals	✓	✓	✗



### 3. Service Area

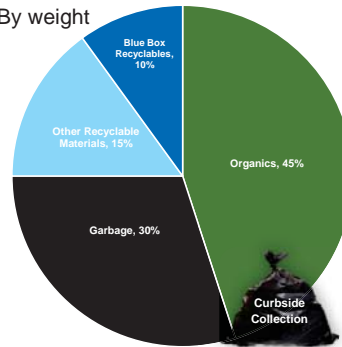
## Recommendation c)iii.

The service area include the City of London, Counties of Elgin, Middlesex, Huron, Lambton, Oxford, Perth and local First Nation Communities noting City Council will have the authority to determine which, if any, municipalities or businesses outside of London are allowed to use future City residual waste disposal facility or facilities or future resource recovery facility or facilities and under what conditions.



### 4. Determining Amount of Residual Waste

By weight



Generally single family homes, duplexes, townhomes, condos

Direction from Council (part of Resource Recovery strategy):

1. Reduce avoidable food waste
2. Handle "Green Bin" organics soon
3. What are near term options?
4. What are longer term options?



### 4. Determining Amount of Residual Waste



Interim Diversion Goals (all solid waste):  
 30% by 2020  
 50% by 2030  
 80% by 2050

Visionary Goals:

1. Zero Waste
2. Zero GHG emission from the waste sector



### 4. Determining Amount of Residual Waste

Achievable with Today's Technologies

Component	Diversion Rate	Comment
Existing Diversion	45%	• Blue Box, leaf/ yard, depots, etc.
Source separated organics (Green Bin)	8% to 12%	• May need to go to biweekly garbage
Other Programs	3% to 5%	• Reduction, more captured, more items,
<b>Total</b>	<b>56% to 62%</b>	



## 4. Determining Amount of Residual Waste



Anaerobic Digestion



Solid Recovered Fuel (SRF)



Waste Conversion (e.g., gasification)



Mixed Waste Processing / Mechanical/Biological Treatment (MBT)



Region of Durham EFW (using combustion)

31



## 4. Determining Amount of Residual Waste

### Achievable with Tomorrow's Technologies?

Component	Diversion Rate Recovery Rate
Existing Diversion (regulated?)	45%
Mechanical/Biological Treatment (MBT) <ul style="list-style-type: none"> <li>material and energy recovery</li> <li>anaerobic digestion</li> </ul> Waste conversion technologies <ul style="list-style-type: none"> <li>gasification, gas phase reduction, pyrolysis</li> </ul>	15% to 45%
<b>Total</b>	<b>60% to 90%</b>



## 4. Determining Amount of Residual Waste

### Recommendation c)iv.

The capacity of any new residual waste disposal facility be sized assuming the residential waste diversion rate is 60% by 2022; and the Provincial interim goals for total solid waste diversion of 30% by 2020, 50% by 2030 and 80% by 2050.



## Contact municipalities in proposed regional service area

### Recommendation d)

Canvass municipalities within the proposed regional service area to determine interest in future disposal and future resource recovery.



## CWC reporting

[in addition to the community engagement activities]

### Recommendation e)

Report back to CWC with an Interim Update report of ToR development and Draft Final ToR including holding a public participation meeting



## ToR Tentative Schedule

Step	When
<b>Community Engagement</b>	<b>March 2017 to April 2018</b>
Prepare/Review Draft ToR	May 2017 to Feb. 2018
Interim Update to CWC	December 2017
Prepare Proposed Final ToR	March/April 2018
WMWG Meetings	May, Sept. Dec. 2017
WMWG/Committee (hold PPM) & Council	March/April 2018
Council approved Proposed ToR to MOECC	May 2018



## Resource Recovery Strategy Schedule

Step	When
Community Engagement	March 2017 – March 2018
Provincial Actions (inc. Organics Action Plan and Recycling Funding)	March 2017 – April 2018
Updates to WMWG/CWC/Council – General Direction	Sept – Nov. 2017
CWC/Council – final approval	March 2018



## Future EA Activities Schedule

Step	When
Minister ToR Approval	September 2018
All EA activities + All community engagement	October 2018 to December 2019
Prepare Draft/Proposed EA	January to June 2020
Committee / Council Approval	June 2020
Submission to MOECC	July 2020