

1ST REPORT OF THE
WASTE MANAGEMENT WORKING GROUP

Meeting held on January 19, 2017, commencing at 4:30 PM, in Committee Room #4, Second Floor, London City Hall.

PRESENT: Councillor H.L. Usher (Chair), Councillors M. Cassidy, J. Helmer, S. Turner, H.L. Usher and M. van Holst, and J. Bunn (Secretary).

ABSENT: Mayor M. Brown.

ALSO PRESENT: W. Abbott, M. Losee and J. Stanford.

I. CALL TO ORDER

1. Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

II. ORGANIZATIONAL MATTERS

2. Election of Chair and Vice Chair

That it BE NOTED that the Waste Management Working Group elected Councillor H.L. Usher and Councillor M. Cassidy as Chair and Vice Chair, respectively, for the term ending November 30, 2017.

III. CONSENT ITEMS

3. STAFF REPORT - Overview of Individual Environmental Assessment (EA) Process

That it BE NOTED that the Staff Report from the Director, Environment, Fleet & Solid Waste, dated January 19, 2017, related to an overview of the individual Environmental Assessment (EA) process, was received.

4. STAFF REPORT - Resource Recovery Update

That it BE NOTED that the Staff Report from the Director, Environment, Fleet & Solid Waste, dated January 19, 2017, with respect to a resource recovery update, was received.

IV. SCHEDULED ITEMS

5. STAFF PRESENTATION - J. Stanford, Director, Environment, Fleet & Solid Waste - Draft Guiding Principles - Resource Recovery and Residual Waste Disposal Strategies

That on the recommendation of the Director, Environment, Fleet & Solid Waste, the Draft Guiding Principles included in the staff report dated January 19, 2017, for the development of London's Long-Term Resource Recovery Strategy and Residual Waste Disposal Strategy BE SUPPORTED and BE RELEASED for public engagement;

it being noted that Waste Management Working Group approved the addition of a new Draft Guiding Principle, "Make Waste Reduction the First Priority"; and,

it being further noted that the Waste Management Working Group received the attached presentation with respect to this matter.

6. STAFF PRESENTATION - J. Stanford, Director, Environment, Fleet & Solid Waste - Residual Waste Disposal Strategy Scope of Work as Part of the Environmental Assessment Process

That, on the recommendation of the Director, Environment, Fleet & Solid Waste, the following key parameters for the scope of work for London's long-term solid waste Residual Waste Disposal Strategy, as part of the Environmental Assessment process, BE SUPPORTED:

- a) 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;
- b) the maximum amount of waste that can be landfilled each year remains unchanged at 650,000 tonnes at this time;
- c) the service area will include the City of London, Elgin County, Huron County, Lambton County, Middlesex County, Oxford County, Perth County and local First Nation Communities, it being noted that the City Council will have the authority to determine which, if any, municipalities or businesses outside of London are allowed to use any City residual waste disposal facility or facilities in the future; and
- d) the capacity of any new residual waste disposal facility will 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;

it being noted that the Waste Management Working Group received the attached presentation with respect to this matter.

7. STAFF PRESENTATION - J. Stanford, Environment, Fleet & Solid Waste - General Framework for the Community Engagement Program for the Resource Recovery and Residual Waste Disposal Strategies as Part of the Environmental Assessment Process

That, on the recommendation of the Director, Environment, Fleet & Solid Waste, the following BE SUPPORTED with respect to the community engagement plan for the development of the Resource Recovery and Residual Waste Disposal Strategies:

- a) the general framework for the community engagement program as presented in the staff report dated January 19, 2017;
- b) the establishment of a Waste Management Community Liaison Committee, designed to be a liaison/feedback group for City staff; and,
- c) the typical flow of information and reporting structure, as provided in the above-noted report;

it being noted that the Waste Management Working Group (WMWG) indicated a desire to meet periodically in a larger meeting involving City Advisory Committees, the Community Liaison Committee, W12A Landfill Public Liaison Committee and Indigenous Communities; and,

it being further noted that the WMWG received the attached presentation with respect to this matter.

V. ITEMS FOR DISCUSSION

8. Meeting Schedule

That it BE NOTED that the Waste Management Working Group will meet in May, September and December, 2017.

VI. DEFERRED MATTERS/ADDITIONAL BUSINESS

None.

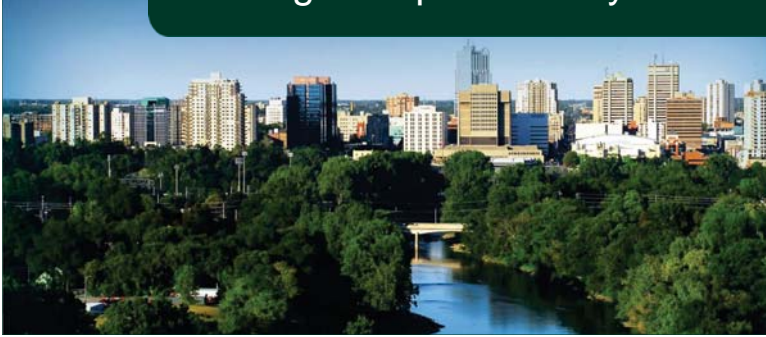
VII. ADJOURNMENT

The meeting adjourned at 6:50 PM.

NEXT MEETING DATE: May, 2017



Solid Waste Management Working Group – January 19/17



DRAFT GUIDING PRINCIPLES



Purpose of Guiding Principles

1. Guiding principles represent a broad philosophy that guides the project throughout its life in all circumstances, irrespective of changes in its goals, strategies, type of analyses and reporting.
2. Principles guide what the project does, why it does it and how it does it.



Years of Local Engagement



Key Areas to Cover

- Climate change
- Community health
- Environmental protection
- Financial sustainability
- Open/Transparent
- Partnerships
- Resource recovery
- Responsible/Fair



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

- 1) Work to Mitigate Climate Change Impacts
- 2) Prioritize our Community’s Health and Environment
- 3) Be Socially Responsible
- 4) Ensure Financial Sustainability
- 5) Make the Future System Transparent
- 6) Support Development of Community Partnerships



Draft Guiding Principles (continued)

- 7) Support Development of Business (contractual) Partnerships
- 8) Ensure Responsibility for Waste Management
- 9) Implement more Resource Recovery Solutions
- 10) Ensure Impacts of Residual Waste Disposal are Minimized



Next Steps

| Step | When |
|-----------------------------------|----------------|
| WMWG Input | January |
| CWC/Council approval | February |
| Community engagement and feedback | March – August |
| Report to WMWG | September |
| CWC/Council – final approval | September |



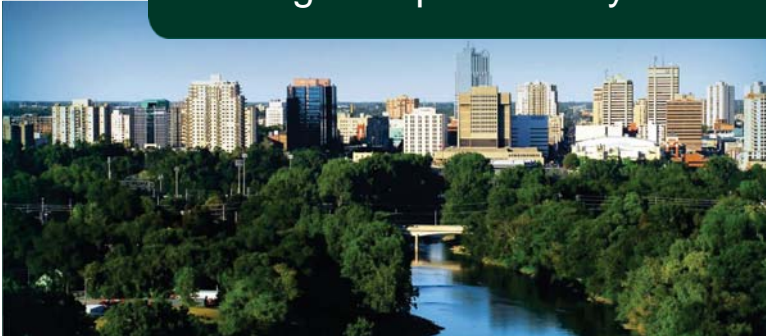
Draft Guiding Principles

Recommendation

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



Solid Waste Management Working Group – January 19/17



Residual Waste Disposal Strategy SCOPE OF WORK

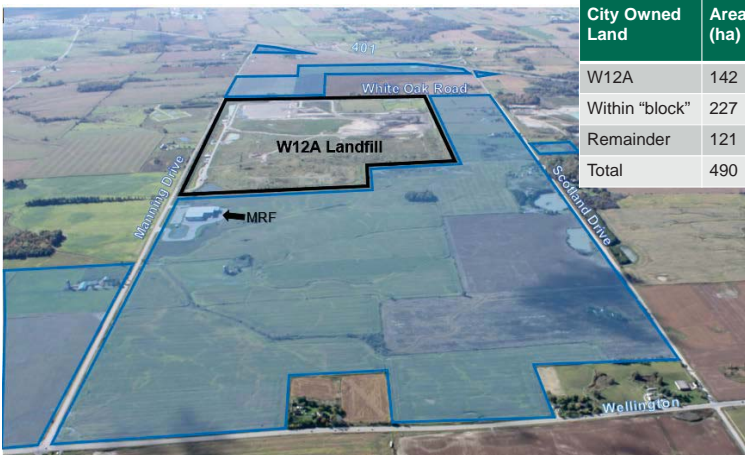


Outline

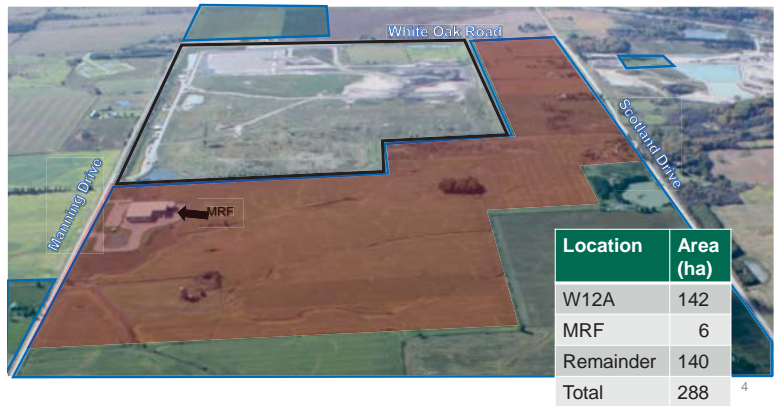
1. Background
2. What **length of time** does the Disposal Strategy cover?
3. What **annual tonnage** could be landfilled?
4. What **service area** does the Disposal Strategy include?
5. How much **residual waste** will require disposal?



1. Background W12A Landfill



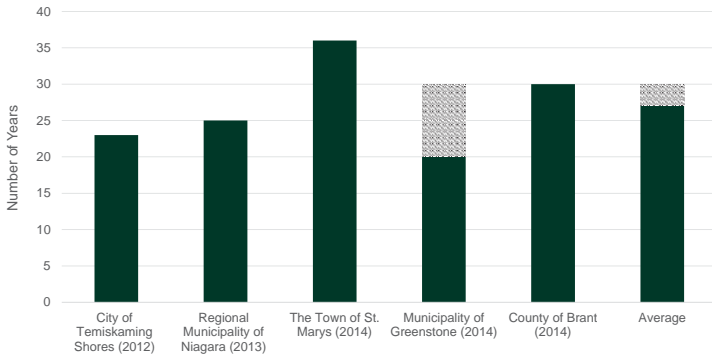
1. Background - Waste Management Resource Recovery Area





2. Length of Time

Planning Periods of Recently Approved ToRs



2. Length of Time

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



2. Length of Time

Recommendation

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.

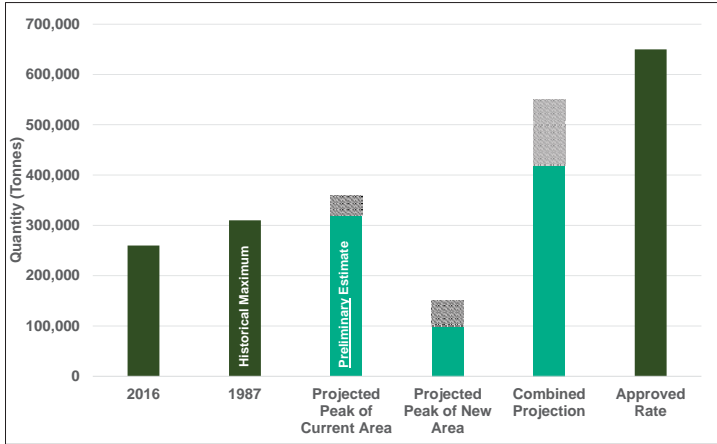


3. Annual Tonnage

| 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) |



3. Annual Tonnage



3. Annual Tonnage

Recommendation

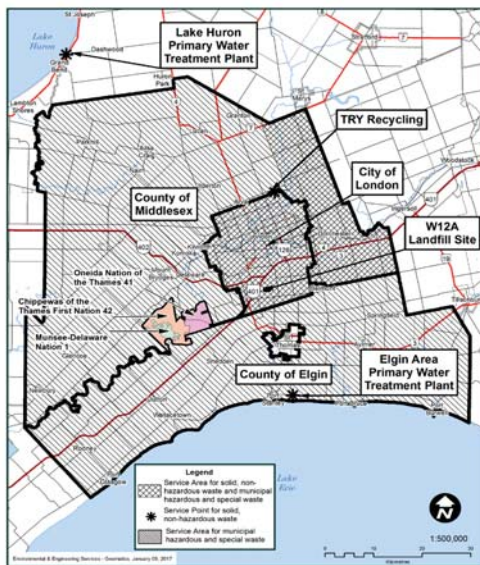
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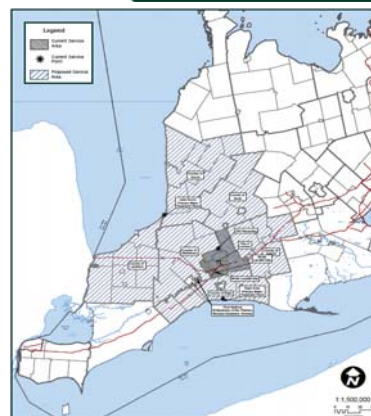
4. Service Area

Current:

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



4. Service Area



Regional



Provincial



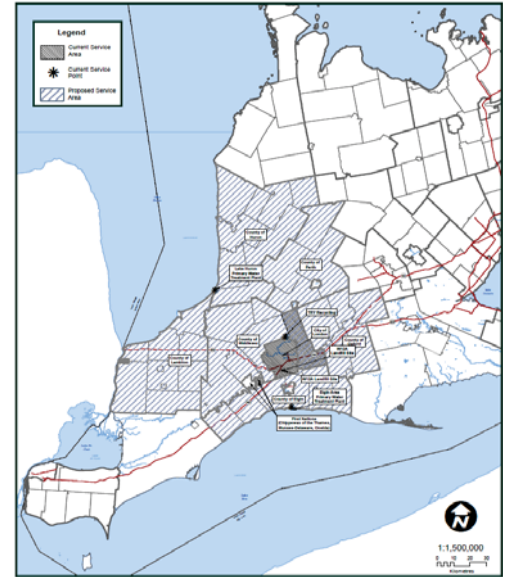
4. Service Area

| 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 | ✗ | ✓ | ✓ |
| Publically-owned Disposal Option | ✗ | ✓ | ✓ |
| Community Support | ✓? | ✓? | ✗ |
| Local Nuisance Impacts | ✓ | ✗ | ✗ |
| Financial Benefit | ✗ | ✓ | ✓ |
| Backup/Contingency Disposal Capacity | ✗ | ✓ | ✓ |
| Ease of Approvals | ✓ | ✓ | ✗ |



4. Service Area

- Proposed:**
1. Solid non-hazardous waste



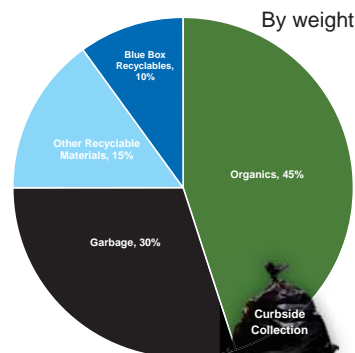
4. Service Area

Recommendation

The service area include the City of London, Elgin County, Middlesex County, Huron County, Lambton County, Oxford County, Perth County 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 any City residual waste disposal facility or facilities in the future.



5. Residual Residential Waste



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?



5. 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



5. Residual Waste

Achievable with Today's Technologies

| Component | Diversion Rate | Comment |
|---------------------------------------|-------------------|---|
| Existing Diversion | 45% | <ul style="list-style-type: none"> Blue Box, leaf/ yard, depots, etc. |
| Source separated organics (Green Bin) | 8% to 12% | <ul style="list-style-type: none"> May need to go to biweekly garbage |
| Other Programs | 3% to 5% | <ul style="list-style-type: none"> Reduction, more captured, more items, |
| Total | 56% to 62% | |



5. Residual Waste



Anaerobic Digestion



Solid Recovered Fuel (SRF)



Advanced Thermal (e.g., gasification)



Mixed Waste Processing / Mechanical/Biological Treatment (MBT)



5. 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"> material and energy recovery anaerobic digestion Waste conversion technologies <ul style="list-style-type: none"> gasification, gas phase reduction, pyrolysis | 15% to 45% |
| Total | 60% to 90% |



5. Residual Waste

Where does Energy from Waste (EFW) fit?



- Will be addressed as part of resource recovery project and RR Strategy

| Tonnes* | % | Description |
|----------------|-------------|---|
| 100,000 | 40% | London controlled combustible |
| 50,000 | 20% | Business "not controlled" combustible |
| 100,000 | 40% | Requires landfill, limited to no energy |
| 250,000 | 100% | |

* Very preliminary estimate



5. Residual Waste

Resource Recovery Strategy Timetable

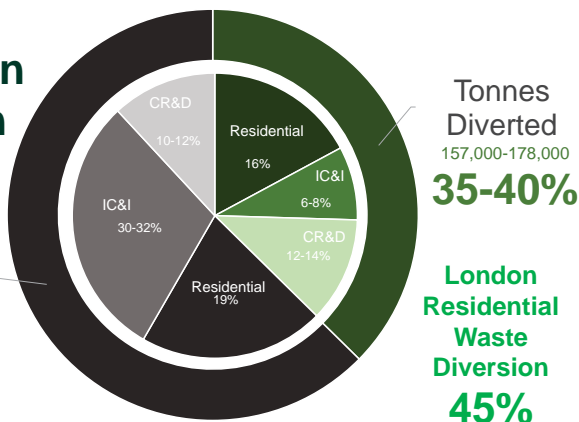
| Step | When |
|--|---------------------------|
| "Ideas and Choices" - Community engagement and feedback | April – August 2017 |
| Provincial Actions including Organics Action Plan and Recycling Funding | March – April 2018 |
| Updates to WMWG/CWC/Council – General Direction | October – Nov. 2017 |
| General Direction - community engagement and feedback | December/17 – February/18 |
| CWC/Council – final approval | March 2018 |



5. Residual Waste

Solid Waste in London

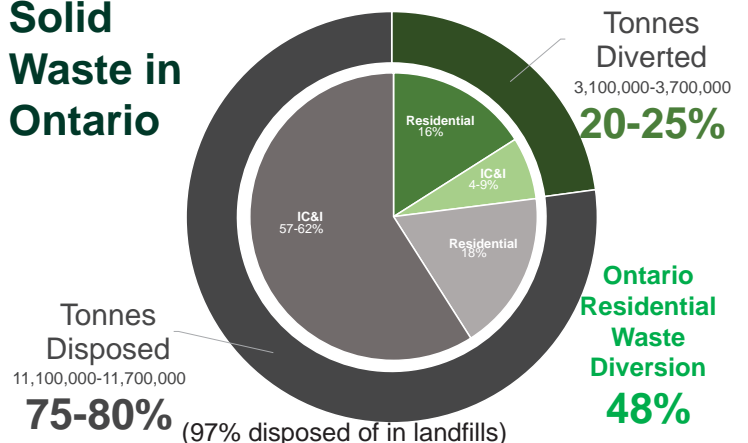
Tonnes Disposed
279,000-300,000
60-65%



5. Residual Waste

Solid Waste in Ontario

Tonnes Disposed
11,100,000-11,700,000
75-80%
(97% disposed of in landfills)





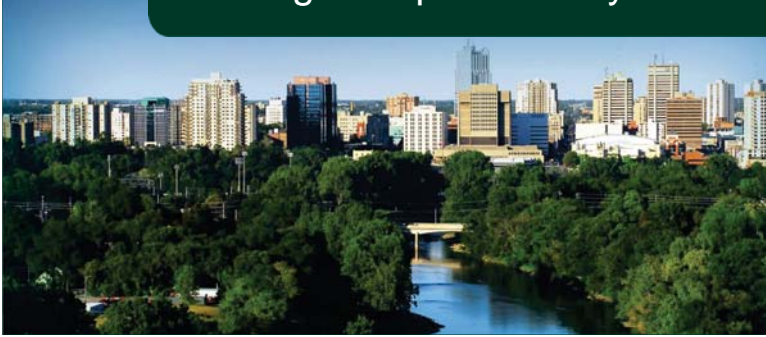
5. Residual Waste

Recommendation

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.



Solid Waste Management Working Group – January 19/17



COMMUNITY ENGAGEMENT PROGRAM



Outline

1. Who will be consulted?
2. What Engagement Tools will be Used?
3. What is the Reporting Structure and Timing?
4. Recommendation

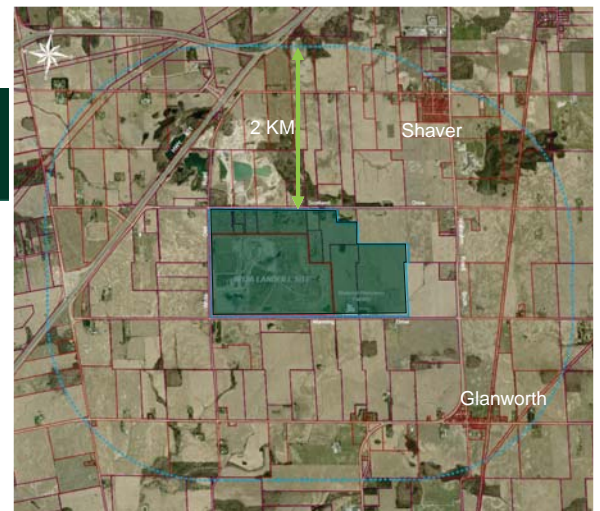


1. Who

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



1. Who





1. Who

New - Waste Management Community Liaison Committee

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



2. Engagement Tools



2. Engagement Tools



Long Title:

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

Short title:

Resource and Waste Strategy (RWS)

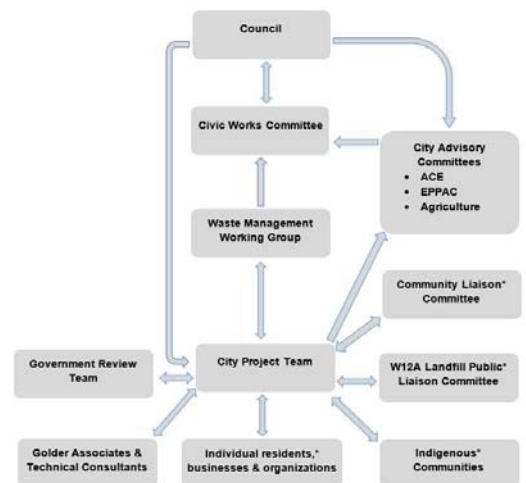


Common branding for engagement...

Why Waste?



3. Reporting/Timing



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



3. Reporting/Timing

ToR Tentative Schedule

| Step | When |
|------------------------------|---------------------|
| NoC, Website | Late February |
| Open Houses, Other Engage | April to October |
| Prepare Draft ToR | May to Jan. 2018 |
| Review of Draft ToR | February 2018 |
| Prepare Proposed ToR | March to April 2018 |
| Committee / Council Approval | April 2018 |
| Submission to MOECC | May 2018 |



3. Reporting/Timing

Future Tentative Schedule

| Step | When |
|------------------------------|-------------------------------|
| Minister ToR Approval | September 2018 |
| All EA activities | October 2018 to December 2019 |
| 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 |



Community Engagement Program

Recommendation

Support for...

- i. general framework for the community engagement program;
- ii. establishment of a Waste Management CLC
- iii. typical flow of information/reporting structure