



London
CANADA



Frequently Asked Questions (FAQs #3) Residual Waste Disposal and Resource Recovery Strategies

Residual Waste Disposal Strategy

Why has the City started this process?

As of January 2018, the City of London's W12A Landfill will have approximately seven years of approved capacity remaining. Planning, approvals and construction of new or expanded disposal capacity can take several years so work has begun on long term Residual Waste Disposal and Resource Recovery Strategies.

The Environmental Assessment (EA) process is one of the approvals required for the expansion of the City's landfill and is expected to take three to four years to complete. Work on the EA process started in Spring 2017 to ensure a long term disposal solution can be obtained prior to existing approved capacity being exhausted.

How will residual waste be managed after 2025?

It is proposed to expand the existing W12A Landfill.

The City of London previously undertook an assessment of various residual waste disposal alternatives (e.g., new landfill, waste export, expand W12A Landfill) and determined expanding the W12A Landfill was the preferred alternative.

A further screening assessment was undertaken of residual waste disposal alternatives as part of the EA process using screening criteria provided in the Ministry of the Environmental and Climate Change (MOECC) document *Code of Practice for Environmental Assessments* (January 2014). This further assessment supported expanding the W12A Landfill.



Frequently Asked Questions

Residual Waste and Resource Recovery Strategies

What are the key landfill expansion parameters?

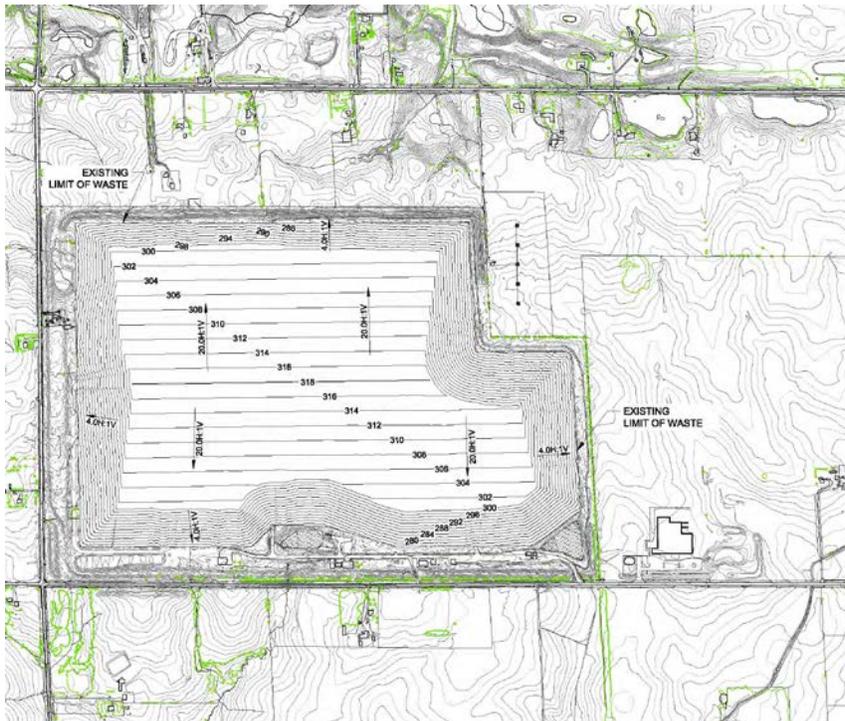
After consideration of public feedback, City Council approved several key project parameters for the expansion of the W12A Landfill in October 2017 including:

- 25 year expansion beyond the current approved capacity;
- Allow neighbouring municipalities (Elgin, Huron, Lambton, Middlesex and Perth Counties) to use the expanded landfill under conditions approved by Municipal Council;
- Landfill expansion needs to accommodate 10.5 million tonnes (includes 1.3 million tonnes from neighbouring municipalities). This will require 14.6 million cubic metres of additional airspace (which includes space for cover material);
- Reduce the maximum annual amount of residual waste that will be accepted at the expanded landfill to 500,000 tonnes from the current approved level of 650,000 tonnes; and,
- Commit to increasing the current London residential (household) waste diversion rate to 60% by 2022 from the current rate of 45%.

What Landfill Design Concepts are being proposed?

It is proposed to look at three general landfill expansion design concepts in the next phase of the Environmental Assessment process. These design concepts may be modified as the Environmental Assessment process progresses.

Preliminary Design Concept 1

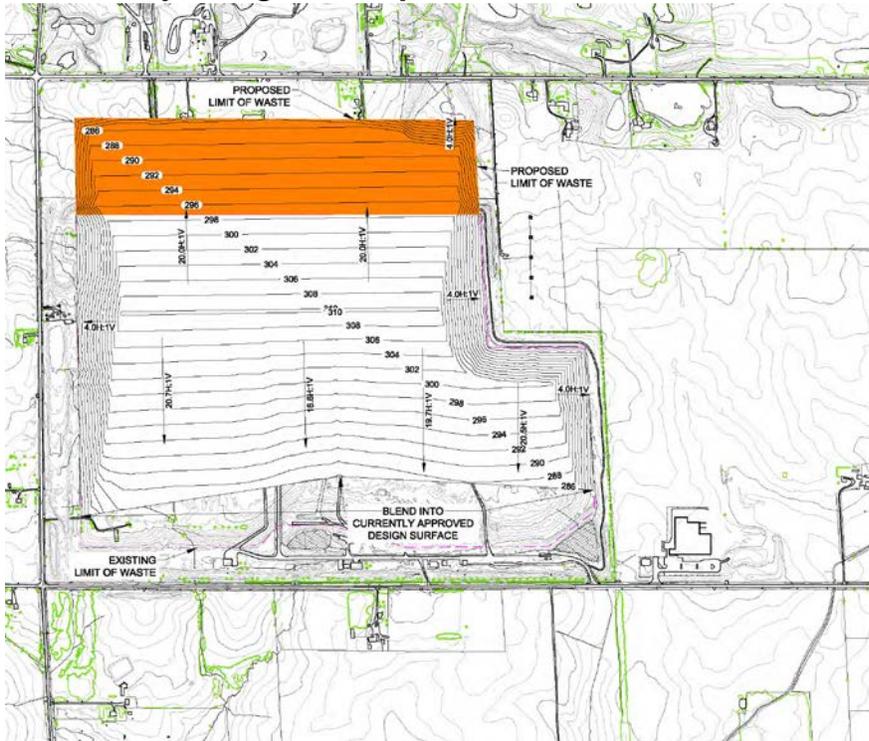


- No increase in fill area (stays at 107 hectares)
- Increase peak height of landfill by 26 metres (to 35 metres above ground level)

Frequently Asked Questions

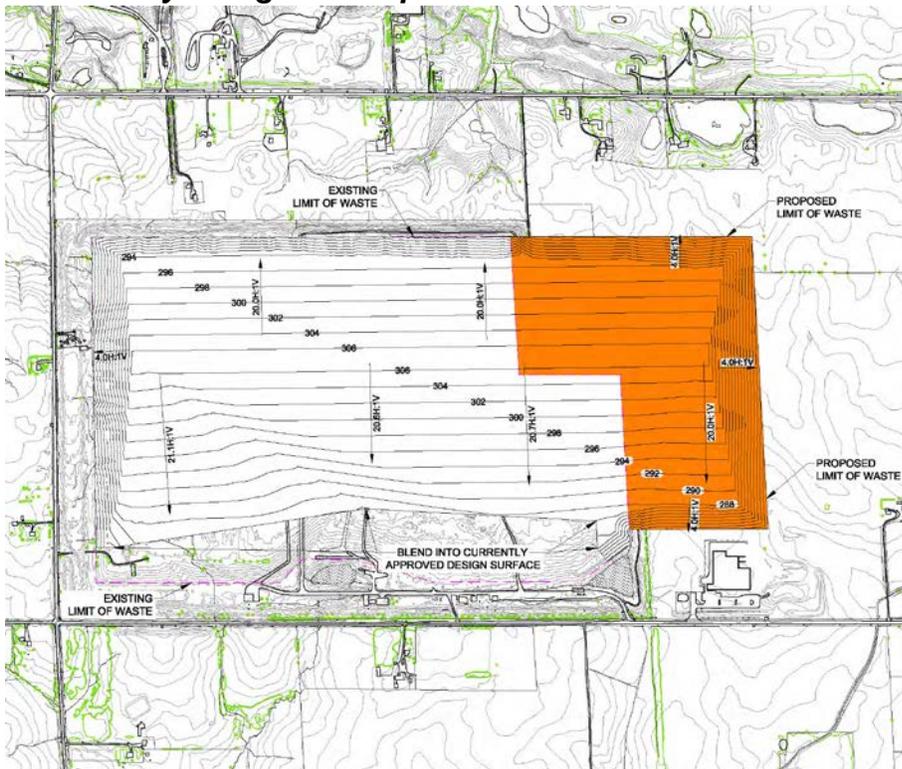
Residual Waste and Resource Recovery Strategies

Preliminary Design Concept 2



- Increase in fill area by 27 hectares (to 134 hectares)
- Increase peak height of landfill by 18 metres (to 27 metres above ground level)

Preliminary Design Concept 3



- Increase in fill area by 36 hectares (to 143 hectares)
- Increase peak height of landfill by 15 metres (to 24 metres above ground level)

Frequently Asked Questions

Residual Waste and Resource Recovery Strategies

What studies are being proposed to evaluate the different design concepts?

Study	Purpose
Atmosphere	Prepare air, noise, dust and odour emission estimates and execute air quality dispersion modelling to predict worst-case effects.
Agriculture	Determine potential disruption to local farm operations and identify mitigative measures.
Archaeology	Identify archaeological sites that are anticipated to be impacted.
Biology	Identify potential impacts to aquatic and terrestrial features (i.e. species at risk, wetlands, woodlands) and identify mitigative measures.
Cultural/Heritage	Predict potential impacts to important cultural vistas, views and protected heritage properties or newly identified properties of cultural heritage value or interest.
Design/Operations	Complete a geotechnical assessment. Develop an estimate of the quantity of landfill gas and leachate (water that has come in contact with waste) generated from the expansion. Estimate cost of environmental and engineering controls for the alternative design concepts.
Geology/ Hydrogeology	Prepare a contaminant transport model to predict worst case groundwater impacts at the property boundary.
Land Use	Determine potential disruption to sensitive land uses and identify mitigative measures.
Socio-economic	Predict impacts on employment and calculate the net economic effect. Evaluate the level of nuisance effect to surrounding residence and communities.
Surface Water	Predict potential impacts on surface water quality and execute surface water model to estimate peak flows and stormwater management requirements.
Transportation	Assess traffic operation and safety requirements for the haul route study area.
Visual	Identify potential effects on views from off-site vantage points using a 3D model.

Frequently Asked Questions

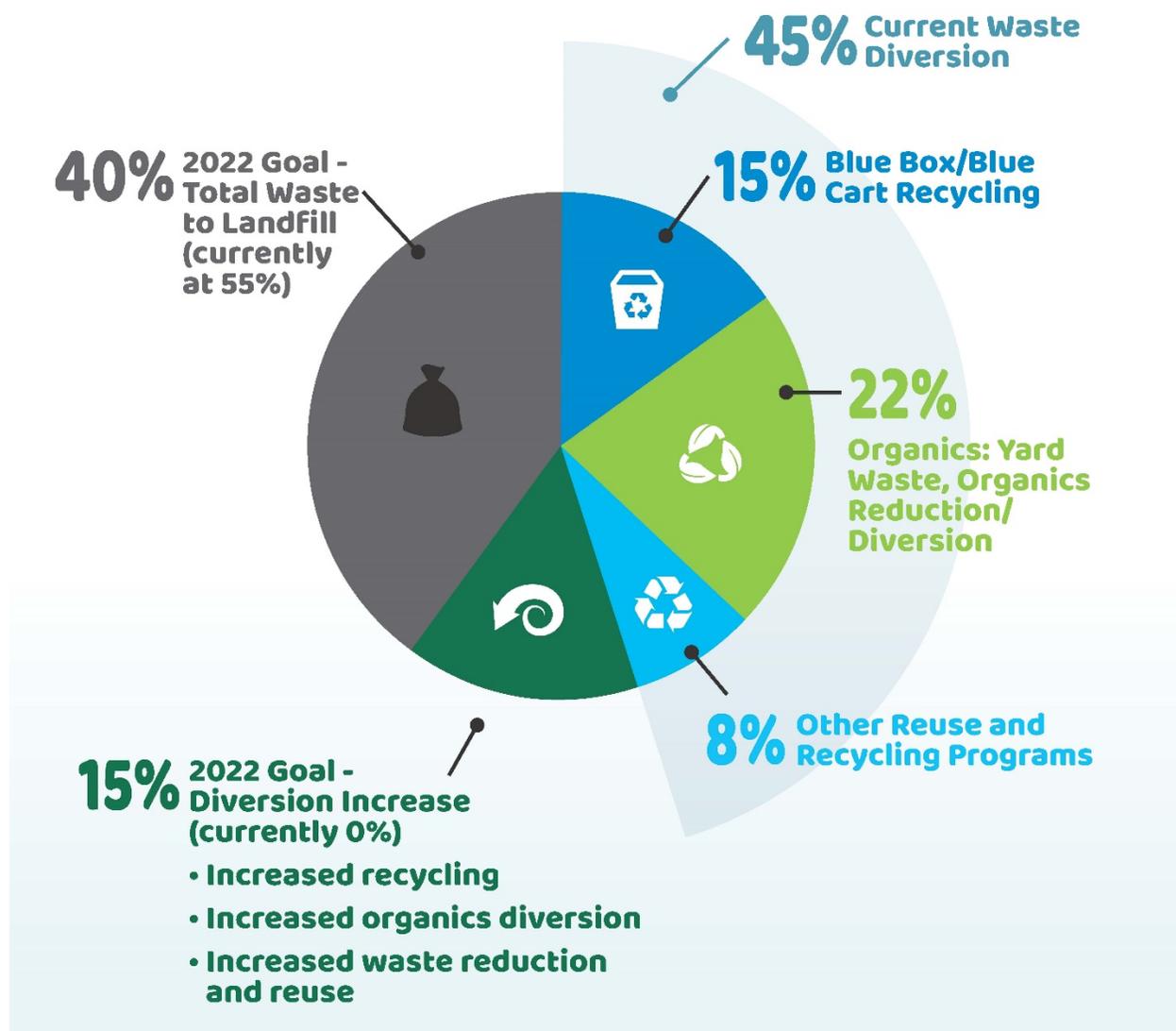
Residual Waste and Resource Recovery Strategies

Resource Recovery Strategy

What does the long term Resource Recovery Strategy entail?

A companion Resource Recovery Strategy is being developed in conjunction with the Environmental Assessment for the expansion of the W12A Landfill. The Resource Recovery Strategy involves the development of a plan to maximize waste reduction, reuse, recycling, and resource recovery (e.g., composting, biogas and other waste conversion) in an economically viable and environmentally responsible manner.

As noted earlier, Council has approved a short term goal of 60% waste diversion of residential waste by 2022.



Frequently Asked Questions

Residual Waste and Resource Recovery Strategies

How will we get to 60% waste diversion?

Information on various recycling, organics management and waste reduction programs and initiatives that will help us get to 60% will be available at the open houses. This information will also be available at getinvolved.london.ca/WhyWasteResource.

Which programs and initiatives the City will pursue will depend on the feedback received from the public, community groups, advisory and liaison committees, businesses involved in delivering waste diversion services, current research, provincial government policy and direction, etc.

What changes are coming to waste management from the Province?

Two significant changes to waste management are coming to Ontario.

Extended Producer Responsibility

Extended Producer Responsibility (EPR) means that the companies that produce or import products in Ontario will be fully responsible for having them recycled or reused. Currently, municipalities pay for about half of the cost of the Blue Box program. The new legislation - The Ontario Waste Free Act - will shift full responsibility to producers (and importers).

Food and Organic Waste Action Plan

Food and organic wastes make up approximately one-third of Ontario's total waste stream. In London, this amount is about the same noting that it can be as high as 45% for the residential waste stream.

To reduce and manage this waste the Province is developing a Food and Organic Waste Action Plan. The Plan will recommend steps to:

- Reduce the amount of food that becomes waste in the first place
- Divert food and organic waste from landfill

The Final Plan is scheduled to be released in early 2018 and is expected to include:

- Targets for food waste reduction
- Targets for food and organic waste diversion from landfill
- Mandatory food and organic waste programs for municipalities with a population over 50,000
- Possible ban on disposal of food and organic waste at transfer stations and disposal facilities (e.g., landfills)

Frequently Asked Questions

Residual Waste and Resource Recovery Strategies

COMMUNITY ENGAGEMENT

What Community Engagement Opportunities Exist?

There will be numerous opportunities to provide feedback throughout the development of the Residual Waste and Resource Recovery Strategies. Information on current opportunities can be obtained by visiting ***getinvolved.london.ca/WhyWasteDisposal*** and ***getinvolved.london.ca/WhyWasteResource*** and include:

- sign-up to be on a project contact list
- take part in engagement opportunities or review previous FAQs at ***getinvolved.london.ca/WhyWasteDisposal*** and ***getinvolved.london.ca/WhyWasteResource***
- attend an open house
- provide comments at ***getinvolved.london.ca/WhyWasteDisposal*** and ***getinvolved.london.ca/WhyWasteResource***

Questions? Comments?

Jay Stanford, M.A., M.P.A.
Director - Environment, Fleet & Solid Waste
Phone – (519) 661-CITY (2489) ext. 5411
Fax - (519) 661-2354
E-mail - jstanfor@london.ca

Wesley Abbott, P. Eng.
Project Manager – Solid Waste
Phone – (519) 661-CITY (2489) ext. 1812
Fax - (519) 661-2354
E-mail – wabbott@london.ca

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