

7TH REPORT OF THE
ADVISORY COMMITTEE ON THE ENVIRONMENT

Meeting held on October 7, 2015, commencing at 12:17 PM, in Committee Room #4, Second Floor, London City Hall.

PRESENT: M. Bloxam (Chair), J. Baxter, K. Birchall, S. Brooks, S. Hall, M. Hodge, J. Howell, C. Kushnir, L. Langdon, S. Ratz, G. Sass, B. Schulz and D. Szoller and B. Mercier (Secretary).

ABSENT: C. Baranik.

ALSO PRESENT: W. Abbott, S. Armstrong, T. Arnos, A. Macpherson, D. MacRae 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. Amendments to the Terms of Reference for the City of London Advisory Committees

That it **BE NOTED** that the Municipal Council resolution adopted at its session held on June 10, 2015, with respect to amendments to the Terms of Reference for advisory committees, to require advisory committees to submit an annual work plan, was received.

III. SCHEDULED ITEMS

3. London ON Bikes

That it **BE NOTED** that a verbal presentation, from D. MacRae, Division Manager, Transportation Planning and Design, with respect to London ON Bikes, was received.

4. Environmental Screening Process for Landfill Service Area Changes

That it **BE NOTED** that the attached revised presentation dated October 7, 2015, from J. Stanford, Director of Environment, Fleet and Solid Waste and W. Abbott, Division Manager, Solid Waste Engineering, with respect to the environmental screening process for landfill service area changes, was received.

IV. CONSENT ITEMS

5. 6th Report of the Advisory Committee on the Environment

That it **BE NOTED** that the 6th Report of the Advisory Committee on the Environment from its meeting held on September 2, 2015, was received.

6. 4th Report of the Transportation Advisory Committee

That it **BE NOTED** that the 4th Report of the Transportation Advisory Committee from its meeting held on September 1, 2015, was received.

7. 3rd Report of the Agricultural Advisory Committee

That it **BE NOTED** that the 3rd Report of the Agricultural Advisory Committee from its meeting held on September 16, 2015, was received.

8. 8th Report of the Environmental and Ecological Planning Advisory Committee

That it **BE NOTED** that the 8th Report of the Environmental and Ecological Planning Advisory Committee from its meeting held on September 17, 2015, was received.

9. 6th Report of the Trees and Forests Advisory Committee

That it **BE NOTED** that the 6th Report of the Trees and Forests Advisory Committee from its meeting held on September 23, 2015, was received.

10. Appointment to the Advisory Committee on the Environment

That it **BE NOTED** that the Municipal Council resolution from its session held on September 1, 2015, with respect to the appointment of S. Armstrong, representing the Thames Valley District School Board on the Advisory Committee on the Environment, was received.

V. SUB-COMMITTEES & WORKING GROUPS

11. Education and Outreach Sub-Committee

That the Education and Outreach Sub-committee Report from its meeting held on May 27, 2015, **BE RECEIVED**.

VI. ITEMS FOR DISCUSSION

12. ACE Best Practices

That the matter of the Advisory Committee on the Environment (ACE) best practices **BE DEFERRED** to a future meeting of the ACE.

13. ACE Representative for EEPAC

That S. Hall **BE APPOINTED** to represent the Advisory Committee on the Environment on the Environmental and Ecological Planning Advisory Committee, for the term ending February 28, 2019.

14. Sustainability Working Group - Putting Sustainability Front and Centre in the City of London

That the following actions be taken with respect to the Sustainability Working Group Report:

- a) the Civic Administration **BE REQUESTED** to consider the development of a Sustainability Statement, which could be incorporated in the London Plan, but also form the basis of a sustainability framework that would include a vision, goals, principles, strategies and a definition of sustainability, and be featured prominently on the city's website and publications;
- b) should a Sustainability Statement be developed, as noted in a) above, the Civic Administration **BE REQUESTED** to have the Sustainability Statement form the basis of a revamped Green and Healthy City section, which could be moved to the front of the City Building Policies, as part of the London Plan;
- c) a Sustainability Officer, Markham, Ontario **BE INVITED** attend a future meeting of the Advisory Committee on the Environment (ACE) to speak on this matter; it being noted that the ACE approved up to \$200.00 from its 2015 Budget for the speaker's travel expenses; and,
- d) it **BE NOTED** that the Sustainability Working Group minutes from its meeting held on September 27, 2015, was received.

VII. DEFERRED MATTERS/ADDITIONAL BUSINESS

None.

VIII. CONFIDENTIAL

(Confidential Appendix enclosed for Members only.)

The Advisory Committee on the Environment convened in camera from 2:40 PM to 2:50 PM after having passed a motion to do so, with respect to the following matter:

C-.1 A matter pertaining to personal matters about identifiable individuals including municipal or local board employees, relating to the 2016 Mayor's New Year's Honour List

IX. ADJOURNMENT

The meeting adjourned at 2:50 PM.

NEXT MEETING DATE: November 4, 2015




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What are we Doing Next in Waste Management?

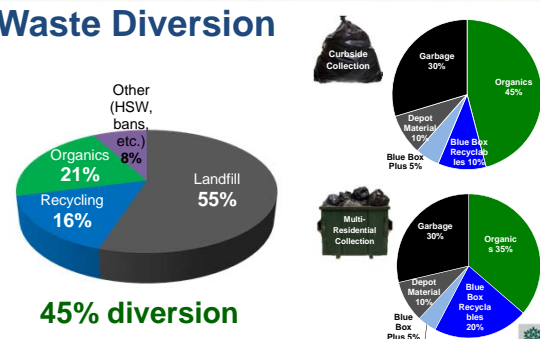
1. Resource Recovery Projects
2. Individual EA – Long-term Resource Recovery & Disposal
3. Environmental Screening Process - W12A Landfill Service Area Amendment

Advisory Committee on the Environment - October 7, 2015



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Waste Diversion



45% diversion



Resource Recovery & W12A Landfill

- Opened in 1977
- 8 million tonnes in place; space for 2.5 million more (9 to 12 yrs)
- Operations include Landfill, Drop-off depot, HSW Depot, LFG flare
- Several projects examining service area



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1. Resource Recovery Projects – 2 Steps

Step 1a – Further examination of resource recovery opportunities



Step 1b – CONCEPT *London Waste to Resources Innovation Centre*



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Waste to Resources Innovation Centre

- Potential research and training Centre
- Demonstration site(s)
- Early stages - interest from Western University, other businesses



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Residuals (Organics) Management for Energy

- Gas Phase Reduction Technology – Pilot Project
- Creates “syngas” from different feedstocks
- 92% combustion power of natural gas
- MoU signed in February 2015

Some other North American locations:
Edmonton, Alberta; Montgomery, Alabama; Reno, Nevada . . . world-wide interest in advanced resource recovery & waste conversion

Step 2 – Circular Economy - Eco Industrial Park

A **Circular Economy** model, if approved, focuses on:

- Reducing and increasing resource productivity
- Enabling efficient collection and recycling systems
- Increasing market value of recovered materials

(Source: MOECC, April, 2015)

Industrial Ecology Process

Graphic created: King County, WA, Department of Natural Resources and IT

2. Individual EA – Long-term Resource Recovery & Disposal

Report on CWC October 6, 2015 Agenda

Environmental Screening W12A Landfill Service Area Amendment

Advisory Committee on the Environment
October 7, 2015

Source	Waste Type
Lake Huron Water Treatment Plant	water treatment plant process residuals
Elgin Area Water Treatment Plant	water treatment plant process residuals
TRY Recycling	construction & demolition recycling process residuals plus garbage from the City's EnviroDepot
Thames Centre	residential garbage in the winter months
Elgin County	Municipal Hazardous & Special Waste

Why?

Lowers cost

- "Economies of Scale"
- Tipping fees maybe lower for users

London waste

- over 80% of material generated from providing services to London

Regional coordination

- Continuation of working together (e.g. Material Recovery Facility - MRF and Municipal Hazardous & Special Waste - MHSW)

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Water Treatment Plant Process Residuals

- Screened sediment from lake water
- 20,000 tonnes/year
- 4 trucks/day

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Construction & Demolition Process Residuals



- Non-recyclable insulation, flat roofing, bulky items, renovation materials, plastic, etc.
- 20,000 tonnes/year
- 3 trucks/day

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Residential Garbage



- Regular household garbage (bagged)
- 1,300 tonnes/year
- 0.6 trucks/day

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Municipal Hazardous & Special Waste (from Elgin County)

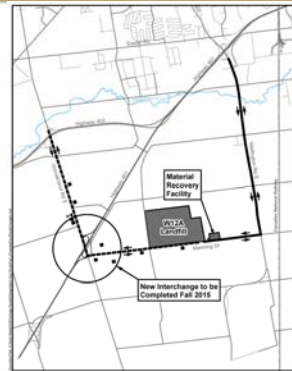


- Taken off-site for recycling/disposal
- 40 tonnes/year
- 4 small vehicles/day

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Haul Route




Legend

- Current Designated W12A Landfill Haul Route
- - - Proposed Addition to W12A Landfill Haul Route
- ⊕ Church
- Residential Dwelling

Material Recovery Facility
New interchange to be Completed Fall 2016

1:40,000
N
1990
London

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Impact on Landfill

No change to landfill operations

- Approved types of waste
- Size/capacity of landfill
- Design/engineer controls for landfill
- Approved rate of fill

No change to historical waste quantities


- Peak of 310,000 tonnes in 1987
- Average 240,000 tonnes/year over last decade
- Projecting 200,000 tonnes for 2016 (without change)

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Potential Implications

Factor	Data	Comments
Traffic	<ul style="list-style-type: none"> • 10 to 15 vehicles/day (average) • 15 to 30 vehicles/day (peak) 	<ul style="list-style-type: none"> • < 5% increase • losing other customers • traffic study suggests road network can handle much more
Waste Quantities	<ul style="list-style-type: none"> • 41,000 to 42,000 tonnes/year • 20,000 tonnes/year used as cover 	<ul style="list-style-type: none"> • Will reduce landfill capacity one year • City about to start environmental assessment (EA)

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Information/Comments

Information – www.london.ca

Information/comments
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Questions