Waste Management Working Group Report

3rd Meeting of the Waste Management Working Group July 13, 2018
Committee Room #1

Attendance

PRESENT: Councillor M. van Holst (Chair); Mayor M. Brown; Councillors J. Helmer and S. Turner and J. Bunn (Secretary)

ABSENT: Councillors M. Cassidy and H. Usher

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

The meeting was called to order at 12:00 PM.

1. Call to Order

1.1 Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

2. Scheduled Items

2.1 Decision Report #8 – 60% Waste Diversion Action Plan

That, on the recommendation of the Director, Environment, Fleet and Solid Waste, the following actions be taken with respect to the 60% Waste Diversion Action Plan:

- a) the staff report dated July 13, 2018, with respect to the 60% Waste Diversion Action Plan, BE RECEIVED;
- b) the action plan to achieve 60% waste diversion by 2022 BE SUPPORTED IN PRINCIPLE; and,
- c) the release of the above-noted Action Plan for review and comment by the general public and other stakeholders BE SUPPORTED; it being noted that minor changes/revisions to the report may be made prior to release to improve readability or layout of the report;

it being noted that the <u>attached</u> presentation from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to this matter, was received

3. Consent

3.1 2nd Report of the Waste Management Working Group

That it BE NOTED that the 2nd Report of the Waste Management Working Group, from its meeting held on March 8, 2018, was received.

3.2 Update Report #10 - Draft Proposed Terms of Reference

That it BE NOTED that the staff report dated July 13, 2018, with respect to an update report (#10) related to the Draft Proposed Terms of Reference for the Environmental Assessment of the Proposed W12A Landfill Expansion for the City of London, was received.

4. Items for Discussion

None.

5. Deferred Matters/Additional Business

None.

6. Adjournment

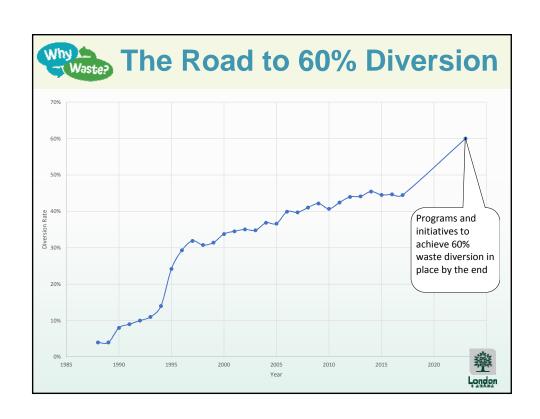
The meeting adjourned at 1:12 PM.

Presentation to Waste Management Working Group

July 13, 2018

Environmental & Engineering Services







Council Direction(s)

October 30, 2017 Council direction:

"The W12A Landfill expansion be sized assuming the residential waste diversion rate is 60% by 2022 noting this does not prevent increasing London's residential waste diversion rate above 60% between 2022 and 2050."

Strategic Plan for the City of London (2015-2019):

Increase efforts on more resource recovery, long-term disposal capacity, and reducing community impacts of waste management.

The London Plan (December 28, 2016):

Direction #4 Become one of the greenest cities in Canada #12 Minimize waste generation, maximize resource recovery, and responsibly dispose of residual waste.



Why Pro

Provincial Direction(s)



60% waste diversion goal is a key London commitment as part of the Environmental Assessment for the W12A Landfill expansion

Many Targets ("must")

- 70% reduction/recovery of food and organic waste from SF homes by 2025
- 50% reduction/recovery of food and organic waste generated at the building by 2025

To mark our progress and keep on track, we have set three InterIm goals:

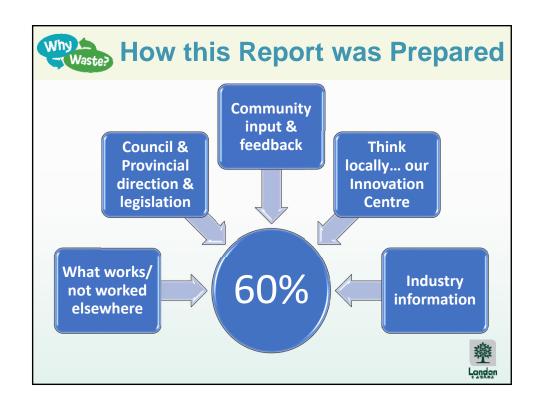
30% rate by 202

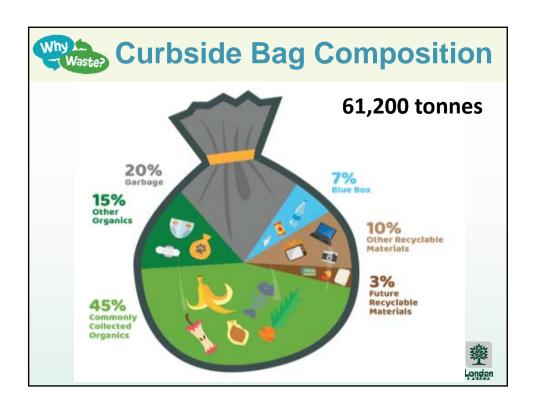
50% rate by 2030

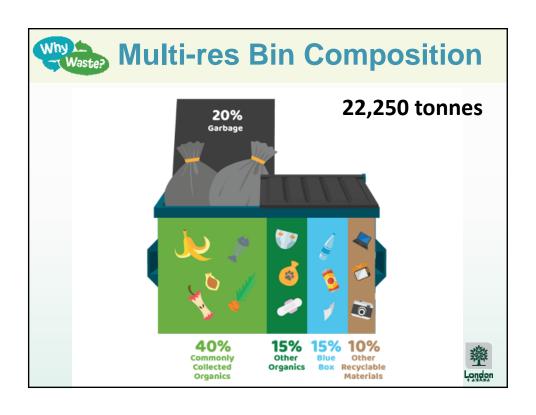
809

80% diversion 2050 rate by

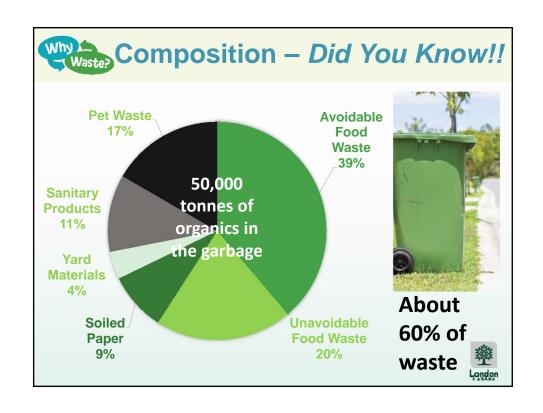








Composition – Did You Know!!				
Top 5 Diversion Opportunities	Estimated tonnes	% of Waste	Kg/hhld/ year	
1. Avoidable food waste	19,300	24%	107	
2. Unavoidable food waste	10,100	12%	56	
3. Pet waste	8,500	10%	47	
4. Items for Blue Box/Cart	8,300	10%	46	
5. Construction/Reno/Demo	4,700	6%	26	
Total	50,900	62%	282	

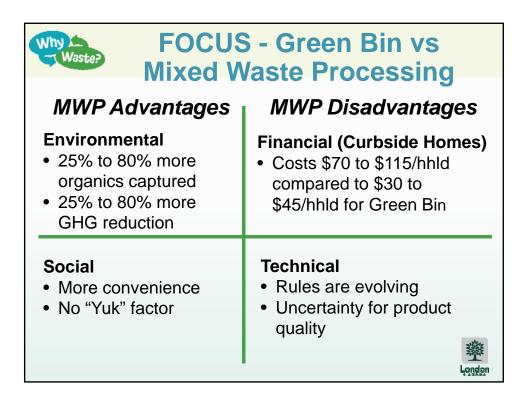


Blue Box – Blue Carts				
Why is this important?	Provincial law - shifting to EPR is keyIndustry will be funding			
How many actions?	NoneIndustry will be responsibleCouncil/City staff to continue to push			
How much will it divert?	1% to 3%1,600 to 4,800 tonnes			
What is the cost/hhld estimate?	 SAVINGS estimated at \$1.5 to \$1.8 million by 2023 SAVINGS \$8.00 to \$10.00 per year 			

New (or Expanded) Recycling				
Why is this important?	Items are easy to identify/describeIdentified in provincial direction			
How many actions?	7; some pilot projectsSupport local jobs; potential for moreNew business opportunities			
	0.4% to 0.8%640 to 1,280 tonnes			
What is the cost/hhld estimate?	Range \$2.00 to \$3.00 per yearLikely \$2.50			

Why	Curbside Organics
Why is this important?	Largest portion of the waste streamProven programs (that have improved)Legislated
How many actions?	 2 Weekly Green Bin, recycling Biweekly, same day garbage pickup
How much will it divert?	8% to 12%13,000 to 20,000 tonnes
What is the cost/hhld estimate?	 Range \$21.75 to \$30.50 per year Likely \$28 Likely curbside home only \$40





Why — Waste?	Multi-res Organics
Why is this important?	Largest portion of the waste streamLegislated
How many actions?	 1 Pilot project (15%) – mixed waste processing and composting/digestion Follow progress of other communities
How much will it divert?	0.5% to 0.7%800 to 1,120 tonnes
What is the cost/hhld estimate?	 Range \$2.25 to \$4.00 per year Likely \$2.75 Likely Multi-res unit only \$62.50

Why Description Other Organics Programs				
Why is this important?	 Food waste avoidance should be a priority Lowers costs; community oriented 			
How many actions?	3Builds on 2 existing actions, BYC and community composting			
How much will it divert?	0.3% to 0.6%480 to 960 tonnes			
What is the cost/hhld estimate?	Range \$1.50 to \$2.00 per yearLikely \$1.75			

FOCUS – Food Waste Avoidance



Local Research (Western University), local Pilot Projects and experience in Canada, USA and Europe

- Audits confirmed up to 2/3rds avoidable food waste
- \$450 to \$600 per household (\$80 to \$100 million/year) in avoidable food
- 10% reduced = \$8 to 10 million saved locally



Why	Reduction & Reuse
Why is this important?	 Lowers costs; community oriented Council policies, directions and by-laws set stage
How many actions?	 7, includes community investment People are the driving force behind reduction and reuse
How much will it divert?	1% to 4%1,600 to 6,400 tonnes
What is the cost/hhld estimate?	Range \$0.50 to \$2.00 per yearLikely \$1.50





Ipsos Survey June 2018

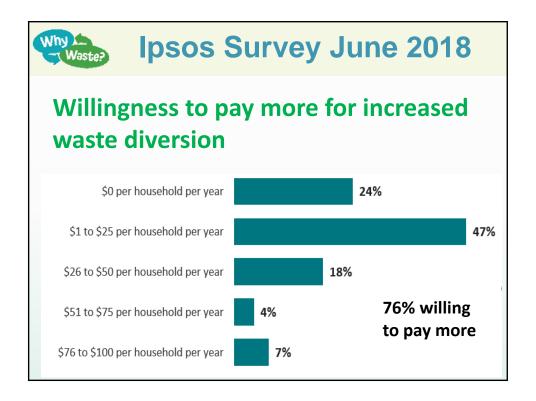
Parameters

- 301 respondents; Single family and apartments
- +/- 6.4%, 19 times out of 20

Findings

- waste diversion is important (90%)
- support food waste avoidance program (90%)
- support curbside/multi organics program (75%)
- prepared to deliver more to depots (65%)







Benefits

Environmental



- increased waste diversion (33% more)
- reduced GHG gas emissions (equivalent of removing 4,200 to 6,800 cars)
- reduced landfill impacts (odour, traffic)
- better use of material and resources





Benefits

Social



- creation of jobs (between 125 and 170, direct & indirect)
- satisfaction/pride of community

Financial



- short-term landfill cost savings
- avoid long term export costs (\$5 to \$7 million/year)



Why Estimated Annual Costs				
Program Category	Cost Range	Likely Cost		
Blue Box Recycling Improvements	\$0	\$0		
New Recycling Programs and Initiatives	\$350,000 - \$550,000	\$450,000		
Curbside Organics Management Program	\$3,900,000 - \$5,500,000	\$5,000,000		
Multi-Res Organics Pilot Program	\$400,000 - \$700,000	\$500,000		
Other Organic Programs	\$250,000 - \$350,000	\$300,000		
Waste Reduction, Reuse Initiatives and Policies	\$150,000 - \$350,000	\$250,000		
Total	\$5,050,000 - \$7,450,000	\$6,500,000		

Why Potential Funding Sources Possible Who Level **Potential** Source of Risk **Controls** amount Date Full EPR for \$1.5 M to 2022 to **Province** Low \$1.8 M Blue Box 2025 Full EPR for \$50,000 to 2023/ Province High \$150,000 **Other Programs** 2025 W12A Landfill \$250,000 to 2020/ City Low \$1 M 2022 Levy \$1,800,000 - \$2,950,000 **Total** (\$2,000,000 likely)

Why Estimated Capital Costs				
Program Category	Items	Estimated Cost		
New Recycling Programs and Initiatives	EnviroDepot Improvements	\$500,000 to \$2,700,000		
Curbside Organics Management Program	 Green Bin Carts Kitchen Catchers Collection Vehicles	\$12,000,000		
Other Organic Management Programs	Community composting	\$100,000		
Waste Reduction, Reuse Initiatives and Policies	Reuse facilities	\$200,000		
Total	\$12.5 - \$15 million			

Annual Cost Summary					
	Likely (Anticipated)				
Cost	\$5,050,000	\$7,450,000	\$6,500,000		
Cost/hhld	\$28.00	\$41.50	\$36.00		
Revenue	\$1,800,000	\$2,950,000	\$2,000,000		
Revenue/hhld	\$10.00	\$16.50	\$11.00		
Total Estimated Cost			\$4,500,000		
Total cost/hhld			\$25.00		

Why MBNC Cost Comparisons					
2016	Cost per	r Tonne Cost per Household		old	
Municipality	Collection & Disposal	Diversion	Collection & Disposal	Diversion	Total
Hamilton (lowest Diversion & GB)	344	151	150	69	218
Niagara (Lowest with GB)	195	138	90	102	192
Average of 9 GB municipalities	264	234	127	100	227
London (60% - likely cost)	156	161	87	86	173
London (60% - high cost)	156	171	87	91	178

Why	Next Steps – 60%			
Next Steps	Comments	Timeline		
CWC and Council "Approval in Principle"	CWC Meeting – July 17Council - July 24	July 2018		
Seek Community Feedback on Action Plan	 Interactive WhyWaste website Circulate to Stakeholder Groups Attend Gathering on the Green II Presentations to WMCLC and ACE Public Participation Meeting (Sept. 27) 	July to September, 2018		
CWC and Council Approval	 Implementation details and final cost estimates to be provided 	January/ February, 2019		