

# Advisory Committee on the Environment

## Report

The 7th meeting of the Advisory Committee on the Environment  
June 6, 2018  
Committee Room #4

Attendance                   PRESENT: S. Ratz (Chair), K. Birchall, M. Bloxam, S. Brooks,  
S. Hall, J. Howell, L. Langdon, G. Sass, N. St. Amour, T. Stoiber,  
D. Szoller and A. Tipping and J. Bunn (Secretary)

ABSENT: M. Hodge

ALSO PRESENT: Councillor M. van Holst; W. Abbott, T.  
Arnos, A. Boyd, P. Donnelly, M. Losee, J.P. McGonigle, P.Shack  
and J. Skimming

The meeting was called to order at 12:15 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 Waste Management Options

That the Managing Director, Environmental and Engineering Services & City Engineer BE REQUESTED to review the ~~attached~~ presentation from C. Marsales, Senior Manager, Waste Management Service, City of Markham, with respect to the Markham Waste Diversion Strategy "Mission Green" and explore the feasibility of implementing a similar program in City of London facilities.

#### 2.2 Parks and Recreation Master Plan Update

That it BE NOTED that the presentation appended to the agenda, from J.P. Mcgonigle, Division Manager, Parks and Recreation, with respect to an update to the Parks and Recreation Master Plan, was received.

#### 2.3 Environmental Programs Annual Overview Update

That it BE NOTED that the staff report dated May 28, 2018, from J. Stanford, Director, Environment, Fleet and Solid Waste, with respect to the Environmental Programs Annual Overview Update, was received.

### 3. Consent

#### 3.1 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 May 2, 2018, was received.

- 3.2 6th Report of the Environmental and Ecological Planning Advisory Committee
- That it BE NOTED that the 6th Report of the Environmental and Ecological Planning Advisory Committee, from its meeting held on May 17, 2018, was received.
- 3.3 4th Report of the Trees and Forests Advisory Committee
- That it BE NOTED that the 4th Report of the Trees and Forests Advisory Committee, from its meeting held on April 25, 2018, was received.
- 3.4 Municipal Council Resolution - Appointment of Andrew Powell to the Advisory Committee on the Environment
- That it BE NOTED that the Municipal Council resolution, from its meeting held on May 8, 2018, with respect to the appointment of Andrew Powell to the Advisory Committee on the Environment, was received.
- 3.5 Municipal Council Resolution - 6th Report of the Advisory Committee on the Environment
- That it BE NOTED that the Municipal Council resolution, from its meeting held on May 22, 2018, with respect to the 6th Report of the Advisory Committee on the Environment, was received.
- 3.6 Notice of Completion - Master Plan - London Pollution Prevention and Control Plan
- That it BE NOTED that the Notice of Completion of the Master Plan for the London Pollution Prevention and Control Plan, from M. McKillop, City of London and T. Mahood, CH2M, was received.

#### **4. Sub-Committees and Working Groups**

##### **4.1 Waste Sub-Committee**

That the Civic Administration BE REQUESTED to undertake the following with respect to the "Toilets Are Not Garbage Cans" public awareness sticker initiative, coordinated by B. Orr, Sewer Outreach and Control Inspector:

- a) require all bathroom stalls within City of London facilities to display the "Toilets Are Not Garbage Cans" sticker by no later than July 31, 2018;

it being noted that the above-noted sticker has already been approved for use by the City of London Communications Department, is already displayed in some, but not all, City of London facility bathroom stalls and is already being displayed, voluntarily, by many organizations, including retail stores, restaurants and schools;

- b) identify to the Advisory Committee on the Environment (ACE) the key Civic Administration who would be responsible for implementing the above-noted action, so that the ACE may follow up on the progress of the implementation and in order to have a specific contact who can advise the ACE of the reasons why a sticker is not displayed in certain instances; and,

- c) report back to the ACE by September 7, 2018 with respect to the feasibility of requiring all facilities that receive City of London funding,

including, but not limited to, Centennial Hall, the Covent Garden Market, Museum London, London Public Library locations, police and fire stations, Tourism London, the London Convention Centre, Dearness Home, Kettle Creek Conservation Authority, Lower Thames Valley Conservation Authority and the Upper Thames River Conservation Authority, to display the above-noted sticker in all bathroom stalls;

it being noted that the Waste Sub-Committee report, appended to the agenda, was received.

## **5. Items for Discussion**

### **5.1 ACE Events Update**

That it BE NOTED that the Advisory Committee on the Environment Events Update document, submitted by S. Ratz, was received.

### **5.2 ACE Presentations/Events/Meeting List**

That it BE NOTED that the Advisory Committee on the Environment Presentations, Events and Meeting List document, dated May 16, 2018, submitted by S. Ratz, was received.

### **5.3 ACE Representative on Municipal Agencies Group**

That J. Ramsay, Project Manager, Rapid Transit, BE ADVISED that Mike Bloxam will represent the Advisory Committee on the Environment (ACE) on the Municipal Advisory Group related to Rapid Transit; it being noted that S. Hall will act as an alternate representative for the ACE on the Advisory Group.

## **6. Deferred Matters/Additional Business**

None.

## **7. Adjournment**

The meeting adjourned at 2:18 PM.

## MARKHAM DIVERSION STRATEGY

### *Mission Green*



## A little about Markham:



- Population 320,000
- Markham is the largest lower tier municipality in York Region
- Markham has jurisdiction over collection
- York Region provides material processing and disposal for the 9 York local municipalities
- Waste Management Dept part of Environmental Services – 5 FTE / 4 Recycling Depots / 9.2M Operating budget / \$88 per HH/yr



## City of Markham Diversion Principles



- Municipal staff must 'walk the talk' -diversion is not just for residents – municipal facilities must separate and recycle same as residents
- One system for all - All residents whether living in a house, apartment and condo should have the same diversion opportunities
- Same recycling program at homes and at school
- Markham services all multi-res buildings – no opting out allowed

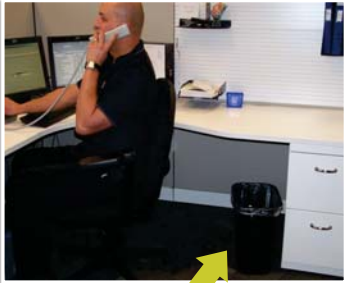
## *Mission Green...started here*



Civic Centre  
500 Employees



## Mission Green at Work



All waste bins removed from City Hall  
No employee workspace/desk waste containers allowed

## Mission Green at Work- Recycling Stations



- ✓ All 42 City facilities have same program/containers
- ✓ City staff are their own waste managers

## Mission Green....Residential



## Green Bin & Bi-weekly Collection



- **MISSION GREEN** - Mission Green Committee formed
- Focus Group – raccoons biggest concern
- 2004 – Pilot for weekly Green Bin and Bi-weekly garbage collection at the same time – 12,000 homes
- Green bin - food, pet waste, diapers – in plastic bags
- Processing - Anaerobic Digestion
- Co-collect Green bin and blue box weekly/Garbage bi-weekly
- High level of public acceptance
- City wide launch – 2005
- Instant increase in diversion

## Mission Green Tips

- Launch Green Bin and Bi-weekly Garbage at the same time
- Accept only food? Don't bother with Green Bin program
- Address raccoon concerns
- No leaf and yard in Green Bin
- Have a good reason to reduce garbage collection service ie Landfill issue



## Mission Green - Phase 1 (Pilot)



- June 2004
- Newsletter Issue #1
  - Introduced pilot

### Pilot:

- September 2004
- 12,000 homes
- 1 green bin, 1 kitchen catcher
- Introduced every other week garbage collection



## Mission Green Resources

**Toolkit**

**Education & Enforcement**

**OOPS**  
This week only Blue Box and Green Bin materials are being collected for recycling. Landfill material (garbage) bound for Michigan should be placed out for collection next week. Consult your new waste calendar for collection instructions.  
Together we can recycle 75% of our waste! Thank you for your cooperation!  
法政局回收及 資源回收的垃圾收集日期  
For more information, Call: 905-416-7535  
Email: wastamp@markham.ca  
Website: www.markham.ca/missiongreen

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**GARBAGE for Michigan**  
No Recyclables or Cardboard Please!  
www.markham.ca  
905-416-7535

## Mission Green - Phase 2



- March 2005
- Newsletter Issue #2
  - Green Bin Guide insert
  - Announces July start date





## Zero Waste for Schools "Just Like Home"

- ✓ Developed to encourage & support Markham schools to adopt Zero Waste practices
- ✓ Grant provided to each school from the Markham Environmental Sustainability Fund
- ✓ "Recycling Stations" (green bin & blue box) in every class room
- ✓ Children *must* learn how to sort



Before



After

## New Initiatives

In 2012, Council approved the "Best of the Best" – Markham's Roadmap to 80% Diversion

1. Mandatory Material Separation By-law
2. Unlimited Clear Bags for Residue
3. Expanded Textile Diversion Program
4. Zero Waste for Schools Program
5. Curbside Electronics and Battery Collection Curbside Ban

## Clear Bags for Residue

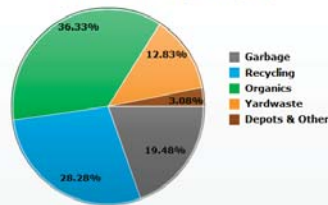
- Clear bag program now fully implemented across Markham
- Residue in dark bags at the curb are stickered and not collected
- High level of public acceptance, participation, and compliance
- Markham largest clear bag program in Canada
- Resulted in significant collection cost savings



## Markham Diversion

Year 1 - Clear Bags April 2013 - March 2014

Total Tonnes by Category



AVERAGE %  
DIVERTED FROM  
LANDFILL

**80.38%**

Tonnes by Category per Month



Diversion Rate





## On-site Food Composting



## NEW! - Textile Donation

Community Centers & Fire Stations  
Textile collection bin – April 2017



## Waste Management Performance

2031 target total waste 289 kg per capita



	Garbage	Recycling	Organics	Yard Waste	EEEC	SUBTOTAL	TOTAL
Town of Aurora	121	83	78	43	6	331	342
Town of East Gwillimbury	115	77	75	51	9	327	390
Town of Georgina	134	82	74	33	7	330	467
Township of King	108	86	83	45	4	326	331
City of Markham	64	68	88	28	6	254	262
Town of Newmarket	106	77	74	43	8	308	331
Town of Richmond Hill	118	71	77	30	10	306	321
City of Vaughan	99	65	81	27	7	279	284
Town of Whitchurch-Stouffville	113	74	84	32	6	309	321

York Region SM4RT Living Plan Balanced Scorecard | 2016

## Historical Data

2017 Waste Tonnage

Month	Curbside Garbage	Curbside Recycling	Curbside Organics	Yard Waste	Apartment Recycling (F/E Container)
January	1,162	1,876	2,499	-	1186
February	902	1,514.27	2,212	-	957.00
March	1,133	1,849.15	2,548	-	957.00
April	1,262	1,811.72	2,335	863.45	968.00
May	1,553	2,022.18	2,646	1,205.88	1,272.00
June	1,591	2,001.54	2,813	1,256.01	1,013.00
July	1,357	1,734.86	2,451	967.27	986.00
August	1,462	1,949.96	2,967	930.59	1,212.00
September	1,377	1,794.54	2,618	688.06	1,011.00
October	1,230	1,742.19	2,556	976.34	1,322.00
November	1,257.66	1,900.42	2,653.43	2,528.29	139.95
December	1,030.93	1,787.98	2,372.72	524.33	134.76



The Regional Municipality of York Quarterly Tonnage Summary January to December 2017 (inclusive)								
DIVERSION			DISPOSAL			TOTAL TONNES	LOCAL MUNICIPAL CAPTURE RATE	
MUNICIPALITY	CURBSIDE	PUBLIC DROP OFF DEPOT	TOTAL DIVERSION	CURBSIDE	PUBLIC DROP OFF DEPOT			TOTAL DISPOSAL
YORK REGION TOTAL	218,296.28	12,550.05	230,846.33	94,290.62	39,958.87	134,249.49	365,095.82	63.2%
MARKHAM	65,680.44	1,942.18	67,622.62	21,491.87	3,707.02	25,198.89	92,821.52	<b>72.9%</b>



## Markham's 81% Gross Curbside Diversion



2017	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Garbage	20%	19%	20%	19%	20%	20%	20%	19%	20%	18%	14%	17%
Recycling	33%	33%	33%	28%	26%	25%	26%	26%	27%	26%	22%	30%
Organics	44%	48%	45%	36%	34%	35%	36%	39%	39%	38%	30%	40%
Yard waste	0%	0%	0%	13%	16%	16%	14%	12%	10%	14%	29%	9%
Depots & Other	3%	0%	2%	4%	4%	4%	3%	4%	4%	4%	5%	3%
<b>GROSS DIVERSION</b>	<b>80%</b>	<b>81%</b>	<b>80%</b>	<b>81%</b>	<b>80%</b>	<b>80%</b>	<b>80%</b>	<b>81%</b>	<b>80%</b>	<b>82%</b>	<b>86%</b>	<b>83%</b>