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*Ottawa Waste Diversion & Landfill Strategy:  
2006-2015. A discussion paper.*

*March 22<sup>nd</sup>, 2006*

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# Why leave Ottawa's quality of life in the hands of the Province?

- The City CAN take back control of the landfill expansion process!
- Only the City can stop the landfill operators from submitting EA requests.

## How?

- **Immediately announce** a City of Ottawa **12-24 month** waste diversion and landfill strategy **assessment** to examine all aspects of waste management in the City.
  - Request that landfill operators hold off submitting any expansion requests (TofR) to the Province until the assessment is complete.
  - Require assessment collaboration between the city, the public, the waste management operators, and technology experts.
  - Put to tender waste diversion & landfill contracts once the City's assessment process is complete. Operator's expansion EAs to meet the City's requirements will be given the full blessing of the City.

# Develop a plan we're all proud of!

- The “Sustainable Waste Diversion and Landfill Strategy” must address the following points for both residential & commercial waste:
  - Waste Reduction: Packaging and re-use.
  - Waste Collection: Single stream / multi-stream. Weekly / Bi-Weekly?
  - Waste Diversion: Recycling (paper, plastics, organics). Residential & Commercial. Goal should be 70% diversion or higher.
  - Waste Conversion: Volume reduction and energy generation. What are the by-products of this conversion process? Airborne, solid, or liquid? Inert, safe, or hazardous?
  - Waste Disposal: Landfills are not the answer. Inert by-products of modern waste conversion technologies will ultimately be consumed in manufacturing and construction projects.

***Landfill is LEAST desirable destination for waste –must be smallest percentage possible! The City must commit to this philosophy and truly focus on Diversion and Conversion.***

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# Alternatives to a bigger pile at Carp

- Carp & Navan are open for at least another 4 years – THERE IS NO IMMEDIATE URGENCY.
- There will soon be many alternative conversion technologies safely handling 200K+ tonnes of waste per year. Brampton, Vancouver, and Edmonton already have them.
- Implementing organics collection would immediately reduce Ottawa's residential waste by 25%-35% (55K-75K tonnes per year).
- There are environmentally-conscious landfill solutions that should be used as a model for any new landfills in Ottawa

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## Here's the facts...

- Waste Management is a publicly-traded company that stands to make over \$2billion from their proposed Carp expansion.
- Waste Management's proposal is for 3 times the capacity that Ottawa needs. This opens Ottawa up to be a dumping ground for non-Ottawa garbage.
- With Waste Management's landfill in Michigan closing to Toronto garbage, the company could divert trucks from Napanee to Ottawa to make room. This could mean more than one truck every 5 minutes dumping at Carp.
- The City of Ottawa has NOT asked Waste Management to expand.
- Waste Management's proposal is to simply make the pile of garbage higher. There are many new disposal/conversion technologies, available today, that are more sustainable and environmentally friendly.
- Ottawa should be a model of environmentally-friendly waste solutions. The City should be driving these solutions. Where is our pride?

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## ***Our detailed proposal...***

- Immediately plan on sourcing **250K tonnes/year of alternative waste conversion technology** for full implementation by 2015. This includes the continuation of the Plasco trial and further investigation/trials into other technologies.
- **Commit to diversion.** We need 70% diversion on residential and commercial diversion rates as high as possible.
- Use **environmentally-conscious landfill** wherever possible. Lafleche environmental, 50km East of Ottawa, is one such landfill. Any new landfills in the City should be modeled after this one.
- Landfills are currently such a key component of the waste management strategy, and the publicly-owned operators are so focussed on profit, that the City must be in control. **Carp and Navan should close** and the City should plan on long-term operations with Trail and Springhill.

# Our proposal... 2005-2007

## Assumptions:

2% annual waste increase for population growth

All commercial numbers are estimates only, based on public information. Residential numbers are based on City of Ottawa numbers.

Navan & Carp will both close in 2012. No non-Ottawa garbage after 2011 - until conversion technology has capacity

	Diversion Rates		Ottawa Originated		Non-Ottawa Originated		Total	Remaining Capacity
	Residential	Commercial	Residential	Commercial	Residential	Commercial		
<b>Annual waste generated (2005):</b>			323,529	489,000			812,529	
<b>2005 Landfill Remaining (tonnes)</b>								
Trail Road								3,769,920
Springhill Road								1,120,000
Carp Road								1,320,000
Navan								1,410,000
	Diversion Rates		Ottawa Originated		Non-Ottawa Originated		Total	Remaining Capacity
	Residential	Commercial	Residential	Commercial	Residential	Commercial		
<b>2006</b>	32%	0%	224,400	498,780				
Trail Road			158,400				158,400	3,611,520
Springhill Road				40,000			40,000	1,080,000
Carp Road			66,000	243,780	15,000	15,000	339,780	980,220
Navan				215,000		20,000	235,000	1,175,000
			224,400	498,780	<b>Total Waste Managed</b>		773,180	6,846,740
	Diversion Rates		Ottawa Originated		Non-Ottawa Originated		Total	Remaining Capacity
	Residential	Commercial	Residential	Commercial	Residential	Commercial		
<b>2007</b>	40%	5%	201,960	483,318				
Trail Road: Landfill			101,960				101,960	3,509,560
Trail Road: Plasco (OK)							0	
Springhill Road				40,000			40,000	1,040,000
Carp Road				225,000	15,000	15,000	255,000	725,220
Navan				218,318		20,000	238,318	936,682
Lafleche			100,000				100,000	
			201,960	483,318	<b>Total Waste Managed</b>		735,278	6,211,462

# 2008-2010

	Diversion Rates		Ottawa Originated		Non-Ottawa Originated		Total	Remaining Capacity
	Residential	Commercial	Residential	Commercial	Residential	Commercial		
<b>2008</b>	45%	10%	188,833	467,038				
Trail Road: Landfill			63,833	6,167			70,000	3,439,560
Trail Road: Plasco (25K)			25,000				25,000	
Springhill Road				40,000			40,000	1,000,000
Carp Road				200,000	15,000	15,000	230,000	495,220
Navan				220,870		20,000	240,870	695,812
Lafleche			100,000				100,000	
*** New Tech. Trial (0K) ***				0			0	
			188,833	467,038	<b>Total Waste Managed</b>		705,870	5,630,592
	Diversion Rates		Ottawa Originated		Non-Ottawa Originated		Total	Remaining Capacity
	Residential	Commercial	Residential	Commercial	Residential	Commercial		
<b>2009</b>	50%	15%	175,099	449,913				
Trail Road: Landfill			50,099	19,901			70,000	3,369,560
Trail Road: Plasco (75K)			25,000	50,000			75,000	
Springhill Road				40,000			40,000	960,000
Carp Road				136,005	15,000	15,000	166,005	329,215
Navan				204,007		20,000	224,007	471,805
Lafleche			100,000				100,000	
*** New Tech. (0K) ***				0			0	
			175,099	449,913	<b>Total Waste Managed</b>		675,012	5,130,580
	Diversion Rates		Ottawa Originated		Non-Ottawa Originated		Total	Remaining Capacity
	Residential	Commercial	Residential	Commercial	Residential	Commercial		
<b>2010</b>	55%	20%	160,741	431,916				
Trail Road: Landfill			35,741	34,259			70,000	3,299,560
Trail Road: Plasco (75K)			25,000	50,000			75,000	
Springhill Road				40,000			40,000	920,000
Carp Road				113,063	15,000	15,000	143,063	186,152
Navan				169,595		20,000	189,595	282,210
Lafleche			100,000				100,000	
*** New Tech. (25K) ***				25,000			25,000	
			160,741	431,916	<b>Total Waste Managed</b>		642,658	4,687,922

# 2011-2013

	Diversion Rates		Ottawa Originated		Non-Ottawa Originated		Total	Remaining Capacity
	Residential	Commercial	Residential	Commercial	Residential	Commercial		
<b>2011</b>	60%	25%	145,739	413,020				
Trail Road: Landfill			20,739	49,261			70,000	3,229,560
Trail Road: Plasco (75K)			25,000	50,000			75,000	
Springhill Road				40,000			40,000	880,000
Carp Road				89,503	15,000	15,000	119,503	66,649
Navan				134,255		20,000	154,255	127,955
Lafleche			100,000				100,000	
*** New Tech. (50K) ***				50,000			50,000	
			145,739	413,020	<b>Total Waste Managed</b>		608,759	4,304,163
	Diversion Rates		Ottawa Originated		Non-Ottawa Originated		Total	Remaining Capacity
	Residential	Commercial	Residential	Commercial	Residential	Commercial		
<b>2012</b>	65%	30%	130,072	393,195				
Trail Road: Landfill			30,072	39,928			70,000	3,159,560
Trail Road: Plasco (75K)			0	75,000			75,000	
Springhill Road				40,000			40,000	840,000
Carp Road				65,307			65,307	1,342
Navan				97,960			97,960	29,995
Lafleche			100,000				100,000	
*** New Tech. (75K) ***				75,000			75,000	
			130,072	393,195	<b>Total Waste Managed</b>		523,267	4,030,897
	Diversion Rates		Ottawa Originated		Non-Ottawa Originated		Total	Remaining Capacity
	Residential	Commercial	Residential	Commercial	Residential	Commercial		
<b>2013</b>	70%	30%	113,720	401,059				
Trail Road: Landfill			13,720	136,059			149,779	3,009,781
Trail Road: Plasco (75K)			0	75,000			75,000	
Springhill Road				40,000			40,000	800,000
Carp Road							0	1,342
Navan							0	29,995
Lafleche			100,000				100,000	
*** New Tech. (150K) ***				150,000			150,000	
			113,720	401,059	<b>Total Waste Managed</b>		514,779	3,841,118

# 2014-2015

	Diversion Rates		Ottawa Originated		Non-Ottawa Originated		Total	Remaining Capacity
	Residential	Commercial	Residential	Commercial	Residential	Commercial		
<b>2014</b>	70%	30%	115,994	409,080				
Trail Road: Landfill			15,994	94,080			110,074	2,899,707
Trail Road: Plasco (75K)			0	75,000			75,000	
Springhill Road				40,000			40,000	760,000
Carp Road				0			0	1,342
Navan				0			0	29,995
Lafleche			100,000				100,000	
*** New Tech. (200K) ***				200,000			200,000	
			115,994	409,080		<b>Total Waste Managed</b>	525,074	3,691,043
	Diversion Rates		Ottawa Originated		Non-Ottawa Originated		Total	Remaining Capacity
	Residential	Commercial	Residential	Commercial	Residential	Commercial		
<b>2015</b>	70%	30%	118,314	417,262				
Trail Road: Landfill			18,314	52,262			70,576	2,829,131
Trail Road: Plasco (75K)			0	75,000			75,000	
Springhill Road				40,000			40,000	720,000
Carp Road				0			0	1,342
Navan				0			0	29,995
Lafleche			100,000				100,000	
*** New Tech. (250K) ***				250,000			250,000	
			118,314	417,262		<b>Total Waste Managed</b>	535,576	3,580,467

<b>Summary: 2006-2015</b>	<b>2006</b>	<b>2011</b>	<b>2015</b>
Total Ottawa-orig. Residential & Commercial waste generated	723,180	558,759	535,576
Residential Diversion Rate	32%	60%	70%
Commercial Diversion Rate (over 2005 baseline)	0%	25%	30%
Total landfilled in Ottawa (not including Lafleche)	773,180	383,759	210,576
Total alternative disposal	0	125,000	325,000
Total Ottawa-Owned Landfill Capacity Remaining (Trail & Springhill)	4,691,520	4,109,560	3,549,131
Years of total Ottawa landfill capacity (private & municipal) remaining	7	11	17

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# *What about the costs?*

- The perceived problem (reality?) with planning new landfills or implementing new waste disposal techniques is the cost. Siting a new landfill would cost > \$100million. A new incinerator or “waste conversion machine” would be \$50million+.
- However, there are studies showing that the combined cost of landfilling a tonne of garbage is > \$400 when you include all of the operating, social-economic-environmental, and closure costs.
- The city of Ottawa only pays \$38/tonne to put 1/3 of its residential waste at Carp. This is an artificially low rate but is consistently used when city planners compare costs of diversion programs like recycling and organics collection to simply landfilling.
- Our decreasing diversion rate of 32% (was 34% in 2002) is one of the lowest in the country. The quality of life in Ottawa is suffering because we can't think long-term and realize that the true cost of disposing of a tonne of garbage is > \$100. If we start thinking that way, other alternatives begin to make more sense.
- The Carp expansion alone would give more than \$2billion in revenue to Waste Management... this would be paid by Ottawa residents and businesses. Instead of turning that \$2billion into profit for Waste Management it should be turned into environmentally-sound waste management practices for the City.

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# Contact Us...

- We will be releasing discussion papers such as this one several times in the upcoming year. Please provide comments and suggestions (positive and negative) so we can improve them as we go.
- Our goal is to continue to work with the City of Ottawa to ensure that we are working towards a proper, long-term, Sustainable Waste Diversion and Landfill Strategy.

Thank-you.

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