

	Fredericton Pop 56,244	New Market Population 80,000	City of Victoria, BC Pop 78,000	Valley Region Pop 83,000	City of Guelph Pop 121,688	Island Waste Management Pop 145,273	Markham Population 377,000	Halton Region Pop 440,780	Brampton Population 523,911	Winnipeg Pop 700,000	City of Calgary Pop 1,096,833	York Region Population 1,108,570	Toronto (GTA) Pop 2,600,000	
1	Do you provide collection services for condominium and/or apartment properties? If No, who provides the collection services?	Yes	Yes, some of them	Yes	Yes, some of them	Yes.	Yes	Yes	Yes	Yes	Yes, some of them, waste only to bldgs. that can utilize a single bin with single pick-up per week; Fiber recycling to 75 bldgs. grandfathered in, Council got out of this service mostly in 2008 Private industry	Member municipalities do collection.	Yes	
	Is the private contractor required to supply bins for diversion of recyclables, paper and compost?	No			City services est. of 90% of City, 35% of City is estimated as Multi-unit	No.	10,716 units in 88 buildings	Approx. 100 buildings in Oakville, 110 bldgs. in Burlington, 30 bldgs. in Milton and 30 in Halton Hills	92,000 units at 880 sites		Yes, only if those services are provided by them		1,000 Buildings equaling 452,000 Units	
	If Yes, # of units serviced:	10 buildings	1,000 units only			5,431								
	(A) Streams Serviced:													
	All recycling including OCC/paper	Yes	Yes	Yes		5,431	Yes	Rec. with curbside collection	Yes	Yes	See above		Yes	
	All organics including L/Y & Food	No	No	Yes		5,431	Yes	Some org., just starting	Yes	Yes			Yes	
	Garbage	No	Yes	Yes		5,431	Yes	Front end garbage	Yes	Yes			Yes	
	(B) Are commercial bins supplied by the municipality or the property owner?	Recycling only (Mun.)	Both	City supplies in service user fee	Some carts provided by City to multi-units who participate in source-separation	Can be either depending on building needs and owner's choice.	Municipality or Property Owner	Municipality	Property owner	Municipality for recycling only	The city provides bins only if they collect from those bldgs.		Municipality	
	(C) Annual Quantity Collected and Quantity Collected per Serviced Unit?	Unknown												
	Organics	NA					144 tonnes in 2012, 0.026 tonnes/unit		55,304 T			Totals	65,222 tonnes/yr .144 tonnes/unit - Diverted	
	Recyclables	Unknown					1,129 tonnes in 2012, 0.10 tonnes/unit		11,995 T			92260 T		
	Paper	Unknown					mixed recyclables				1,070 tonnes of fiber from 75 bldgs.	89488 T		
	Garbage	NA					4,099 tonnes annually in 2012 - 0.38 tonnes/unit				approx. 32,000 tonnes of waste from serviced multi-unit bldgs.	119648 T	209,853 tonnes/yr .464 tonnes/unit	
	(D) Cost	Unknown	\$80,000 for all units	\$ 183.00 /unit			garbage \$13.38/unit/yr, recycling \$23.26/unit/yr, organics \$4.71/unit/yr		FE garbage \$28.36/tonne FE recycling \$55.90/tonne		Not broken out this way, service is provided through tax base and not separated for calculation		\$181/tonne Garbage \$253/tonne Organics	
	Per unit						garbage \$35/tonne/yr, recycling \$221/tonne/yr, organics \$177/tonne/yr		Cart recycling \$94.99/tonne				\$146/tonne to collect and process Blue Boxes	
	Per Tonne						No, collection is built into tax rate, however there is cost recovery for bins and education in a kit supplied to all tenants by the city	Region bills local municipalities who place it on taxes for buildings		Yes, \$50/unit charge for properties up to 7 units in size, remainder still pay in tax rate			\$39 net/tonne Rec.	
2	Do you have a User Pay model or cost recovery mechanism for collection from single and multi-residential properties (apartments and condominiums)?	Users pay for Garbage	Yes	Yes, only for units serviced by the city		Yes							Yes	
	If yes, how is this administered - i.e. Tipping fees, cost/bin, taxation system, weight based billing program, monthly fee, etc.	Tipping Fee	Taxation system	\$183/unit/year covers collection and processing costs.	Taxation		Developer pay a fee per unit \$ 25.00 up front to provide for recycling/compost kit that includes bins and educational information			Property taxes pay for all waste management services across the Region, approx \$125 M per year which is offset by \$11-\$15 M per year in commodity sales and \$5 M in tipping fees at the five recycling centers.	Per Unit Fee fixed annually, residents are currently subsidizing the ICI sector	Single family cost recovery for waste in tax base, user pay for recycling	Bag limit with additional bags at a cost	Volume based - yearly fee for garbage, diverted material is free
	If yes, what are the advantages and disadvantages of the particular user pay model?	NA		Residents received a \$20 rebate on the per unit fee for garbage only going from \$ 202/unit/yr to \$183/unit/yr effective 2013 roll out of carts.			City draws down on this fund to supply tenants with kits		Fair and equitable taxation based on property values, all residents receive standard services.	Residents pay \$50/unit /year and receive 2 - 240 litre cars (1 black and 1 Blue)		Advantage is the users pays less the more they divert	Advantage is the users pays less the more they divert	
	Do you have a clear bag program for garbage?	No	No	No	Yes	No	Used to, moving to grey carts for garbage	Yes since June 2013 Mandatory for curbside residential, not required for multi-res	No	No	No	No	No	
	If Yes, is it mandatory or voluntary?				No			Privacy was not an issue, allow one small grocery bag for privacy items					Resident Volunteers; Resident Letters; Free in unit containers	
	How are privacy concerns dealt with?				One black bag allowed.			It is not monitored yet, collection staff will provide notice when implemented for any issues					Rebates	
	How is monitoring for compliance undertaken?				Haulers curbside.			In first month of clear bag program garbage represented only 18% of total waste stream, diversion yield 81% (Curbside residential went from 72% to 81% diversion from the clear bag)						
	How effective has the clear bag program been in increasing diversion from garbage?													
4	What has worked in your jurisdiction to gain occupant or tenant participation to recycle and compost at multi-residential apartment or condominium properties?	N/A		Communication and education programming	Education programming to residents who have already an established green ethic.	None, program is mandatory.	City of Guelph will service if building participates in source-separation using carts provided. Need to have access, space for carts, etc. Mandatory Multi-unit properties to have a waste management plan	Collection service provided by City if building participates in source-separation	None, program is mandatory.	N/A	n/a	None, program is voluntary	Resident Volunteers; Resident Letters; Free in unit containers	
	(A) What incentives are in place to gain compliance?	Free bins and free collection, recycling only											Rebates	
	(B) What types of contracts or other arrangements are in place with multi-residential property management firms or owners, if applicable?	Six Drop off depots for recycling		N/A private sector provides services to the majority of multi res.				N/A, site plan control agreements with bldgs. are in place.	n/a		There are no financial contracts with property management firms or owners.		None	
5	Do you have flow control? i.e Does the private sector hauler have the ability to ship materials to any landfill inside or outside of your jurisdiction?	No	N/A	The Capital Region District (CRD) does not permit materials to go outside of the Regional Landfill, however there is leakage that is occurring to the USA	Yes.	Yes.		No, York Region provides processing for the various material streams.	No	No	No	No	No - Actively discourage ICI from delivering to Municipal facilities	

(A) Who establishes where materials are delivered for landfilling, composting and recycle processing?	Council – in solid waste by law		CRD	Valley Waste		Island Waste.	York Region for the Multi-res as part of the municipal materials collected by Markham	n/a		Municipally collected materials designated for processing at municipal landfill, municipal compost and recycling under contract with city. All other ICI waste free market dictates to private sites.			N/A
(B) What are the reasons to support flow control - legislative compliance? Revenue protection? Economies of scale? Etc.	NA		To fund investment in the Regional Processing Infrastructure				N/A	n/a		System is not set up to provide capacity for ICI materials so no need for flow control.			N/A
6 Does your municipality operate facilities for landfilling, composting, recycle processing?	Landfill and recycling facility plus an open air leaf operation	No	Leaf and Yard only at Public Works yard	Yes	Yes, campus site at waste resource Innovation Centre - transfer Station (Garbage), Compost Facility, MRF	Yes	No, four community recycling drop-offs	Yes, Halton owns a landfill, co-collects organics/recycling with delivery to transfer stations then on to privately operated MRF in Burlington and Hamilton's compost facility	Peel owns and operates two aerobic composters (60,000 and 12,000 tpy capacity) and one Transfer Station; we own and contract out the processing of the MRF; garbage is shipped to a private Ontario landfill (20 years remaining in a 25 year contract) through our Transfer Station and private (WMCC or Wasteco) or neighbouring municipal (City of Toronto or County of Dufferin) owned Transfer stations.	Yes, 1 municipal landfill, 1 I/y compost facility and contract out recycling operations.	Yes, Calgary owns three landfills, building an owned composting facility. Recycling MRF was supported by the City and Calgary runs a contract with them although they do not own it	Yes	Yes
(A) Do you accommodate capacity for processing materials generated by the Industrial Commercial Institutional sector?	Yes		This is a question for the CRD	Yes		Yes	No	Can go to Mun. landfill or others, receive some ICI recycling	No	NO	Yes, landfill. No, otherwise		Yes but actively discourage receipt from ICI
(B) What is the role of the private sector to provide processing services, if any, for organics, recyclables and the garbage generated from the ICI sector?	They provide what is paid for voluntary diversion in the ICI sector only		This is a question for the CRD				Markham has no role in processing facilities, private sector is responsible for accessing		We have no jurisdiction – Province approves Environment Compliance Approvals (ECAs).	Private recycling and garbage landfill are available, no private processing facilities for organics.	that closed in June; now only regional landfills are alternatives to City-owned. Private sector has been active in supporting recycling processing and a few regional players have built composting facilities although these are not a big scale operation.		Capitalistic I guess
(C) Do you provide collection services for the ICI sector?	Only recycling at apart/condos	Limited number of buildings	No	Same level as single dwelling unit max		Churches only.	No	Some apartments/condos, some ICI where designated	YES/NO – only in the 5 Business Improvement Areas (BIAs) which are a mix of residential and commercial businesses + Region of Peel institutions.	No, private haulers collect from ICI where the city has criteria for eligibility for collection based on limits of 600 litres/week, in excess, private service is acquired. Separation of organics is not required.	For waste to some, on a contract basis.		20,000 small com/inst
7 What are your commercial tipping fees and how are they established for cost recovery in each of the following streams?	N/A		This is a question for the CRD				N/A, see York Region		Small private vehicles are welcome to drop off waste at the five CRC's	See below			Cost Recovery and disincentive
(A) Garbage Tipping Fee Rate	\$74/tonne			\$105 per tonne	\$70 per tonne	\$115 per tonne	N/A	Up to 50 kg, \$5 per load, 51 - 150 kg, \$10 per load, \$152 per tonne for mixed waste, same for C&D, scrap metal & yard waste	\$100/tonne	Municipal landfill rates are \$ 33.50 per tonne + \$10/tonne Provincial fee = \$ 43.50/Tonne. The private landfills set own rates unknown, however provincial tax is also applied to private sites.	\$102 per tonne		\$100/tonne
(B) Recycle Tipping Fee Rate	\$0			\$77 per tonne	n/a	\$40 per tonne	N/A	\$152 per tonne for ICI (with permission)	\$0/tonne		n/a		\$75 or \$0 /tonne ?
(C) Composting Tipping Fee Rate	NA			\$88 per tonne for food waste & \$77 per tonne for leaf & yard waste	Varies, contract with other Mun. at \$90 per tonne for "put", some at \$110 per tonne	\$115 per tonne	N/A	n/a	\$100/tonne		n/a		No commercial haulers deliver
(D) How fees are set and cost recovery			This is a question for the CRD				N/A	Note: variable rates for some other items	Regional Council sets the fee through staff input – was \$80 per tonne for 10 years – since 2012= \$100 tonne set.	City sets fees, not cost recovery. Province redistributes 80% of the tax back to municipalities based on diversion achieved. Private sites do not get rebate back.	Landfill tipping fees based off previous fees (not sure of the logic) and are increasing incrementally over time as a means of disincentivizing landfilling. Will eventually run into an issue with flow control.		Cost Recovery and disincentive
8 Have you conducted waste audits or undertaken other measures to identify the greatest concentrations of non-separated materials (recyclables and organics) in the garbage stream for diversion?		Region of York conducts	Conducted by the CRD every 2 years				Yes, York Region conducts annually for Markham	Yes, some periodic audits of sectors	Yes	Audits at MRF only	Yes		Yes
(A) How and where were audits conducted (i.e. curbside, landfill site, other, by sector?)	Curbside	Curbside and transfer station	Landfill operations at CRD				At York facility, Multi-res audits completed by private auditing company at the transfer station	T/S	Audits conducted for SF and MR garbage at our MRF and closed landfill depending on sample area.	MRF facility	All audits conducted at landfill sites by diverting loads to sorting areas. Broken down by single family, multi-family, ICI (modelled) and C&D (visual)		Curbside and gearing up for multi-unit residential
(B) What audits revealed by sector and how often audits are conducted?	No info on hand about the last audit ... very irregularly conducted if at all		CRD provides reports available on their website				Annually or as needed		Every 2 years for SF and MR – last ones completed 2012. Inbound blue box MRF audits (contractually every month).		Changes over time; conducted, on average, every three years		96% Recycling Particip. 89% Organic particip.

9	What programs/policies/other initiatives have you implemented to improve diversion in both the ICI, including apartments and residential sectors?	Drop off Depots, free bins and free pick up for recycling only	None	Kitchen Scraps green cart program introduced in Feb 2013, not required for ICI. There is only a ban on leaf and yard material in City. The CRD is looking at a ban in 2015 to include kitchen scraps.					10 point Diversion Strategy	There is some organics at apartments slowly being introduced, not intensifying rapidly	In Ontario, municipalities are not responsible for IC&I waste. Residential sector (SF & MR) is provided with broad scope on-going hands-on P&E Waste; Education Strategy in schools; environmental education outreach to improve diversion, budgeted at \$2.00 per household per year (330,000 SF hhids). Plus, Region funded Community Partners in each of the three municipalities provided waste education (\$600,000 per year).	User fee \$50/unit/yr for 2 carts (black and blue), more blue at no charge, more black fee attached	Very limited involvement; currently working on strategies for both sectors to be delivered to Council in early 2014	Collection By-law
10	Have you introduced curbside collection and processing of compostable food waste, if yes, when was the program implemented?	No	Yes 2007	Yes, February 2013	Yes	Yes	Yes.	Yes in 2005	Yes, in 2008	single family, region wide in 2007	No	No. A pilot program in 4 communities, 7500 homes, started last year	Yes 2002	
11	How is your garbage inspected and/or processed? (i.e. inspections at the landfill cell, via a transfer station or curbside inspections)	at scale house, and rejections by collection crew at curbside	Region of York facilities	No inspection, rather there are audits of waste by CRD at their facility			All loads are inspected at facilities.	Transfer station floor inspections; Curbside visual inspection by collector for non-collectible & haz items	T/S inspections, periodic checks	Inspected at transfer station and curbside	Garbage is not inspected as it is received at the landfill face.	Limited inspection. Some loads might be checked at the landfill face.	Floor staff at Transfer Station	
12	What legislation, bylaws, licensing or other policy tools are in place to support diversion away from landfill?	NA	By-Laws	CRD licenses haulers. City has a L/Y ban municipal bylaw and set a target of 70% reduction in waste disposal by 2018.				By-Law (Markham ByLaw 32-95, Ontario 3 R's Regs, site plan control agreements for new developments in residential & ICI sectors	Use education with Bylaw as back up support to re-inforce	Residential recycling is mandatory within the Region through a By-Law.	There is no bylaw, no hauler licencing, no provincial legislation. There is some EPR programs for HHW, tires, oil, etc.. And community recycling centres.	None, it is bylawed that all single family units get a blue cart but not that they use it	By-laws but little enforcement	
13	What industry benchmark or data do you use as a reference tool to measure success in diversion?	Total rec / total waste stream = about 13% diversion rate		CRD supplies City with data on tonnes collected from each community and City keeps its own tally of data for year over year comparatives. It so far with kitchen scrap program reduced waste by 30 - 34%. The OMBI is very expensive for membership fee \$ 20,000 for information that they do not need and can get for free from municipal counterparts across the country.				Diversion Rates, they also host focus groups to survey public opinion, WDO annual data call	OMB reporting	Waste Diversion Ontario Data Call	OMBI as well Winnipeg also conducted its own Solid Waste Masterplan 2 years ago which they are going to email us a copy.	Calgary reports to OMBI and AECOM but this is due to a City-wide initiative to align with those programs. Cannot recall using these benchmarks to compare Calgary to others for any practical or strategic purpose. Calgary often reviews municipalities with similar programs to ones they propose to get an idea, but not much more than that.	Diversion Rates	