



CITY OF TORONTO ABCDs' WASTE DIVERSION TEAM



Art by a TDSB student

DIVERTING NEWS

2004-2010

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I'm happy to share the good 'diverting news' received from the City's Waste Diversion Team – comprising representatives of City Agencies, Boards, Commissions, Divisions (ABCDs) and School Boards – outlined in the Team's 2004 – 2010 report.

The Team was set up by a Council directive in 2003 to help ABCDs meet Council's waste diversion targets and as you will read in this report, its diversion rates have gone from thirty-nine per cent (39%) in 2004, to sixty seven per cent (67%) in 2010. The report highlights many exciting ways of diverting waste and showcases the excellent 'can do' spirit of the ABCDs and School Boards involved.

The Team's 22 members include organizations carrying out vastly different businesses – School Boards, Parks, Recreation and Forestry, Facilities Management Division, Exhibition Place, Toronto Zoo, Solid Waste Management Services, to mention but a few - yet they worked together to reach a common goal and succeeded.

By sharing information and encouraging each other to overcome barriers, the Team organizations diverted approximately 300,000 tonnes of waste to recycling between 2004 and 2010.

Diverting waste to recycling instead of landfilling it helps the ABCDs avoid the significant cost (\$64 per metric tonne) of disposing of this waste in landfill. By continuing to improve their diversion rates, the ABCDs will ensure valuable landfill space is saved for future use by the City. Finding a new landfill site can be very costly and challenging. Additionally, by returning recyclable materials to the marketplace, we reduce the need to use virgin resources to create new products.

I'd like to congratulate the members of the Team who contributed to this success. Diverting waste from landfill to recycling makes 'cents' and reduces the impact of the City's business on the environment.

Thank you,

A handwritten signature in black ink, appearing to read "J. Pennachetti".

Joseph P. Pennachetti

City Manager

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Diverting news – six years of successful separating!

In 2003, City Council established the City of Toronto's first-ever Waste Diversion Team (WDT), comprising representatives of City Agencies, Boards, Commissions & Divisions (ABCDs). The two School Boards were invited to join the team.

City Council's directives were clear and urgent. Each organization was tasked to:

- i) divert 100% of its waste by 2010 (since changed to 70% by 2010)
- ii) create a roadmap to show how it would reach this target
- iii) audit or track waste annually and report annually on its progress.



Waste Diversion Team members went into high gear. Immediately it became apparent each organization was at a different level of waste management; some needed lots of direction and assistance, while others were well on their way to meeting the target. The Team, meeting on a regular basis for the first few years, worked together to create two three-year strategic Waste Diversion Plans

for City Council while networking to assist those members who most needed help. The Team reports its progress annually.

From 2004 to 2010, the Team gained strength as evidenced by the many innovative waste diversion programs implemented and sustained over this time period. Here is a sample of just a few of these initiatives – Parks, Forestry & Recreation division (introducing recycling to parks and recreation facilities and Eco Makeovers), Toronto District School Board (Eco-Schools), Exhibition Place (zero waste arena), Facilities Management (“No Waste” program to fast track recycling), Toronto Fire Services (re-treading of tires, recycling of scrap metal, motor oil, etc.), Toronto Parking Authority (garage lobby recycling) and TTC (Vehicle Clean Recycling Program).

In six years, the 22 WDT participants diverted approximately 300,000 tonnes of recyclables from garbage collection, increasing their collective waste diversion rate from 39% in 2004 to 67% in 2010. This resulted in avoiding the significant cost of disposing of this material in a landfill, which saves that valuable landfill space for future use by the City. Finding a new landfill site can be very costly and challenging. Making recycled materials available to environmental industries reduces the need to use virgin materials in creating products.

The Team's official mandate ended at the close of 2010, however, the Team continues to share information and expertise to sustain and grow their respective accomplishments, and to ensure their hard work over the last six years won't go to “waste.”

ABCDS AND SCHOOLS 2004-2010: GARBAGE AND RECYCLING TONNAGES

Year	Source	Garbage	Recycling	Waste Diversion Rate
2004	Divisions	26,386	14,208	35%
	ABCs	11,951	7,641	39%
	Schools	N/A	N/A	-
2005	Divisions	23,891	16,704	41%
	ABCs	6,625	12,967	66%
	Schools	14,432	11,635	45%
2006	Divisions	13,160	21,001	61%
	ABCs	7,188	16,029	69%
	Schools	12,401	12,577	50%
2007	Divisions	10,763	15,792	59%
	ABCs	5,558	14,179	72%
	Schools	11,491	13,467	54%
2008	Divisions	11,186	17,757	61%
	ABCs	5,833	14,851	72%
	Schools	9,741	15,217	61%
2009	Divisions	8,128	9,846	55%
	ABCs	5,147	15,895	76%
	Schools	14,349	10,710	43%
2010	Divisions	8,112	10,296	56%
	ABCs	4,998	16,482	77%
	Schools	14,551	13,017	47%
Overall	Divisions	101,626	105,604	51%
	ABCs	47,300	98,044	67%
	Schools	76,965	76,623	50%
N/A - Data not available				

In this report, the diversion rate is derived by using the following formula:

Weight of recyclables

Weight of waste collected + weight of recyclables x 100%

Process residue from recycling facilities is not factored into the calculations.

See the last page of this document for a detailed breakdown of annual waste diversion rates for each ABCD and School Board.

FACILITIES MANAGEMENT

Facilities Management (FM) operates the City's Civic Centres and many other types of buildings, such as garages, office towers, courtrooms and a telecommunications centre, that occupy nearly four million square feet.

Very few of these buildings are just offices. Some contain courtrooms and Councillors' offices; many contain daycare centres and fitness clubs. City Hall has the Mayor's Office and City Council Chamber, and Metro Hall houses the City's 3-1-1 Call Centre. The public visits the Civic Centres to pay bills, get licences and get married. Meeting rooms are open after hours for public meetings.

FM also operates public squares like Nathan Phillips Square that host special cultural events attended by crowds sometimes numbering as high as 40,000. All special events are set up to encourage the public to divert as much waste as possible.

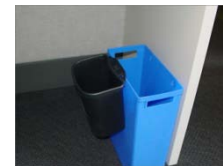


Nearly 7,500 staff, from 22 various divisions, work in FM buildings. Given all these people generate waste, FM created a recycling program called *No Waste** to help staff divert more waste from landfill to recycling. It is such a success, that in 2004, City Council mandated it be adopted by all staff working in City-owned office workplaces. FM not only diverts usual office waste from landfill, it also recycles fluorescent bulbs, cell phones, inkjet and laser cartridges; battery recycling bins are used by the public and staff. As FM renovates office suites, it makes surplus furniture and fittings available to other divisions.



In 2004, FM recycled 71% of office workplace waste; in 2010 it recycled 85%, with 17 office workplaces showing waste diversion rates ranging from 61% to 92%. Over the six years, FM diverted 10,651 tonnes from garbage to recycling.

None of this diversion would have been possible without Toronto Public Service buy-in and support as well as the commitment from facilities operations and facilities services staff to continuously monitor and service FM's diversion efforts. Communications played a large role in this success. Teamwork works!



Facilities Management continues to improve its *No Waste* program. In the next few years, the City will offer its Green Bin organics collection program to City facilities, which will divert even more waste. In the



meantime, FM will continue to find ways to reduce waste coming into its buildings by including vendor-take-back clauses in contracts. It will do business with those suppliers who practice 'Extended Producer Responsibility' (suppliers will recycle their materials when FM is finished with them). Much has been achieved, but much remains to be done to cut operating costs through reduction, reuse and recycling.

* In "No Waste" workplaces, a recycling bin and small (5"x7"x8" high) clip on garbage bin is found at each desk. To encourage staff to be responsible for the waste they generate at work, staff themselves empty desksiders into central bins. Custodial staff empty central bins only. Custodial staff use the time saved going desk to desk to perform other duties.

SOLID WASTE MANAGEMENT SERVICES

From 2004 to 2010 Solid Waste Management Services (SWMS) implemented the Green Bin Program to allow for organics collection at all of its yards.

SWMS maintains a 71% waste diversion rate. The division has instituted mandatory duplex printing at all of its offices. Capable printer/scanners are located at most offices to permit scanning of documents and minimize the need to photo copy. SWMS continues to reuse furniture within the division whenever possible. SWMS ensures that any damaged Blue/Garbage Bins returned to its yards are properly recycled. The division also conducts organic collection pilots at several ABCDs' work sites to determine the feasibility of introducing Green Bin collection to Team members in the future.



Since 2004, SWMS has implemented many programs in its workplaces to reduce waste and increase diversion, and continues to look for improvements.

Selected Accomplishments 2004-2010

- Store documents on CDs/install more CD burners
- Institute mandatory duplex printing wherever possible
- Reuse furniture
- Implement fluorescent lamp and laser printer cartridge recycling
- Ensure staff have access to and fully use “No Waste” or Blue/Grey Box programs
- Follow protocol for recycling computer hardware
- Collaborate with Parks, Forestry & Recreation on Dog Waste Green Bin Pilot in City parks

EXHIBITION PLACE

Exhibition Place has implemented a number of major waste diversion initiatives, resulting in an 85.07 % diversion rate in 2010, a significant improvement from 29.04 % in 2002.

In 2002, Exhibition Place initiated a grounds-wide waste audit, establishing baseline data to assess:

- waste diversion programs in place;
- amount of waste currently generated; and
- amount of waste currently diverted via the 3 Rs (Reduce, Reuse, Recycle).

To prepare for implementation, Exhibition Place explored new and emerging technologies. A new data entry program was introduced to track waste, waste volumes and recycled material on an ongoing basis. A 10-year waste diversion plan identified how to achieve Exhibition Place's goal of Zero Waste by 2012.

In 2005, Exhibition Place started collecting paper towels for composting from more than 90 public and staff washrooms. In 2007, the next major waste diversion effort debuted – a composting program. PLA*(Polylactic acid -- compostable made from corn) compostable tableware was introduced at the BMO Field, Ricoh Arena, and the Direct Energy Centre (DEC).

"Zero Waste" Programs at Direct Energy Centre & Allstream Centre

Zero Waste events involve co-operation between facility staff and show managers. Considerable adjustments were made to cleaning schedules and discussions were held with show managers to ensure they understood the process. Zero waste focuses on reducing the waste that requires landfill disposal and setting up recycling for materials generated at events. Sometimes, factors beyond everyone's control prevent an event from being completely zero waste, but generally, experience shows zero waste events are easy to set up and do not require much extra work. Exhibition Place is pleased that all show managers support these efforts and the results are always positive.



Bio-degradable food containers pilot takes diversion to a new level

In 2009, Exhibition Place ran a pilot project to replace non-recyclable food containers with compostable products and PLA* alternatives in the Food Building during the annual Canadian National Exhibition (CNE). Observations made during the CNE event suggested consumers/attendees were more concerned with quick disposal than proper disposal. Even with proper bin labelling, patrons were confused about what goes where and contamination percentages remained relatively high.

Replacing all non-recyclable food containers with compostable alternatives helped increase waste diversion more than five times. The amount of compost collected in 2009 was 88,898 kg compared to 15,918kg in 2008. The CNE has more than 120 short-term food vendors in the Food Building. Providing two-stream receptacles to take compostables, in addition to bottle and cans, contributed to the pilot's success. Exhibition Place continues to work with CNE management to have all vendors use compostable alternatives in the future.

*Note: Biodegradable or compostable materials are not accepted in the City of Toronto's Green or Blue Bin programs

TORONTO DISTRICT SCHOOL BOARD



Art by a TDSB student *

EcoSchools, the Toronto District School Board's program to support schools in reducing their environmental impact, continues to emphasize waste minimization. Three years ago, the Board introduced Platinum as the fourth and highest level of certification above the existing accreditation levels of Gold, Silver and Bronze.

In addition to an interim and final certification audit, Platinum requires the school's EcoTeam to participate in a waste audit led by the EcoSchools' Waste Minimization Specialist. Not only are the school staff and students shown how to sort through their garbage and recycling, they learn how to use the audit to illustrate how schools can follow simple steps to keep garbage out of the recycling and vice versa.

Several years ago, EcoSchools launched a very successful *Once-a-week garbage pick-up* campaign to encourage schools receiving twice-a-week garbage collection to improve their in-class recycling programs and move to once-a-week garbage collection. More and more schools are making the change and no longer emptying air when a partially-filled bulk garbage bin is tipped for collection. Schools are also encouraged to reduce the size and number of garbage bins.

To support schools in meeting certification standards, EcoSchools annually publishes the *Certification Toolkit*, full of useful tools. The 28 different waste minimization tools in the 2010-2011 edition feature the range of EcoSchools resources available to help staff and students make waste minimization a part of school culture.



Dr. Norman Bethune Collegiate Institute *

*Visuals used with permission from TDSB (source: Platinum Storybook – EcoSchools 2010-2011; Toronto District School Board, 2010)

<http://www.tdsb.on.ca/site/ViewItem.asp?siteid=207&menuid=16875&pageid=14910>

FIRE SERVICES



Fire Services is one of the largest municipal fire service bodies in North America and one of the leading fire service organizations. The division has 95 facilities comprised of 82 fire stations, five training facilities, a warehouse and a mechanical section.

Fire Services has established itself as a leader in sustainable development and climate change readiness.

It has saved both money and energy through its Energy Retrofit Program and Toronto Hydro *Peaksaver* Program implemented at fire stations, and is now turning its focus to improving waste diversion efforts.

Fire fighters, preparing three meals a day on a 24-hour shift, produce a large amount of organic waste. The division is waiting for the City to complete its expansion of organics processing capacity. When this service is available in a few years, Fire Services will sign up for Green Bin collection to divert this substantial percentage of its waste. In the meantime, Fire Services continues to find ways to increase its waste diversion rate.

WASTE DIVERSION						
2004	2005	2006	2007	2008	2009	2010
47%	47%	44%	43%	62%	59%	60%

All of Fire Services’ facilities and fire stations use recycling boxes and/or 95-gallon tote containers or bulk containers to divert waste. A number of the fire stations have compost bins. Fluorescent light bulbs are also recycled.



The Mechanical Section is responsible for acquisition, maintenance and repair of all vehicles and equipment in the Fire Services’ inventory (includes a total heavy fleet of 179 vehicles and 180 light vehicles). Ongoing programs reduce and divert waste through re-treading of tires and recycling of scrap metal, motor oil, anti-freeze, oil filters and batteries, along with the purchase of hybrid vehicles.

TORONTO PARKING AUTHORITY

In 2004, when the Waste Diversion Team was established, there was no recycling program at the Toronto Parking Authority (TPA). However, since then, TPA has made waste diversion a priority both in office workplaces and in parking garages. It started simply with desk-side recycling bins and staff education.



The agency purchased blue totes and placed them in parking garages for recycling collection and put new indoor containers in kitchenettes, lunchrooms and copy rooms.

TPA started a fluorescent lamp recycling program as well as a recycling program for old computers and peripherals. Staff are able to bring batteries from home and drop them off in recycling containers located in common areas.



TPA IS RUNNING TWO PILOT PROGRAMS

- 1) There are blower hand dryers in some washrooms instead of paper towels, and if results are promising, TPA hopes to replace paper towel use with dryers in all washrooms.
- 2) There are five high-end recycling receptacles in certain TPA garage lobbies. If proven successful, the agency hopes to place them in all garage lobbies.

TPA will continue recycling and looking for more opportunities to reduce and reuse.



PARKS, FORESTRY & RECREATION

Over the past six years, Parks, Forestry & Recreation (PF&R) implemented a number of waste division initiatives in parks and recreation centres, which helped boost its waste diversion rates from 24% to 53%.

WASTE DIVERSION RATES

Year	Parks	Recreation Facilities
2004	28%	25%
2005	39%	32%
2006	43%	43%
2007	46%	51%
2008	50%	55%
2009	50%	53%
2010	50%	54%



ECO MAKEOVERS

Eco Makeovers focus on reducing waste by introducing reusable dishes, promoting litterless lunches, reusing office supplies, donating unclaimed lost and found objects and improving access to and signage for recycling bins. Eco Makeovers also include initiatives beyond the 3Rs such as the introduction of air-cleaning plants and living walls (plants growing on a specially-constructed wall used to enhance air quality), non-toxic cleaners, composters, children’s gardens, installation of compact fluorescents, solar panels, bike racks, etc. Currently, there are 18 Eco Makeover sites in the city.

TORONTO AND CATHOLIC DISTRICT SCHOOL BOARD PARTNERSHIPS

Spring/Fall clean-up and tree planting: PF&R, the Toronto District School Board and Toronto Catholic District School Board launched a partnership to link students to their local parks through bi-annual litter clean-up events, modeled after Toronto's annual 20-Minute Makeover clean-up event held in April to mark Earth Day. To date, more than 50,000 students have participated in park clean-ups.



Park Stewards Program: Through this new program, students gain a better understanding of how their actions, whether through cleaning up their park or planting trees, make a huge impact on the surrounding neighbourhood. They also have an opportunity to explore their local park up-close, using the outdoors and ecology as a focus for classroom learning.

WASTE DIVERSION EDUCATION

Staff training: Trained approximately 2,500 staff on waste diversion

Public outreach in parks and special events: Attended parks and special events to do outreach to park patrons about waste diversion

External communication: Promoted waste diversion in parks via local ethnic advertising on public space bins, streetcars, subway cars and back-of-buses

Camp programming: Educated children attending PF&R camps

Parks Waste Audits: 2006 parks waste audits generated detailed information on waste composition in City parks in support of efforts to reach 70% diversion by 2010. A 2008 parks waste audit updated the 2006 findings, identifying changes in waste composition, revealing effectiveness of increased recycling promotion/availability of recycling receptacles in parks and identified areas requiring improvement.



Waste Receptacle Standards: Followed up on the 2006 Parks' Waste Audit recommendations, to create a new Park Waste and Recycling Standard that focused on receptacle twinning, labeling and placement

Cell Pack Recycling Program: Diverted approximately 12,000 kg of annual planting trays/cell packs from landfill

Ice Surface Reusable Vinyl Liners: Conducted pilots at 16 arenas testing benefits of eliminating the use of coloured paint on ice rink surfaces

Reusable Dishes: Purchased and distributed approximately 1,000 sets of reusable dishes for staff and recreation program use

Dog Waste Pilot Project: To better deal with the volume of dog waste in the parks' litter stream, launched three dog waste pilots: i) carry-in/carry-out, ii) septic waste; and iii) Green Bin (carry-in/carry-out and Green Bin options were most successful)

Green Bin Dog Waste Pilot Project: Partnering with Solid Waste Management Services, PF&R put Green Bins in several parks to collect dog waste. To minimize volume of plastic bags entering the organics processing system, paper was provided as the preferred material for dog waste pick-up. Paper bags, commercial-sized Green Bins and signage were installed in 20 locations.

Hand Dryer Installation: To reduce paper towel use, PF&R installed hand dryers in recreation facility washrooms.



TORONTO PUBLIC LIBRARY

The Toronto Public Library sells out-of-date, withdrawn and donated books. These withdrawn and donated books are sold to the public out of two Library bookstores (*Book Ends*) located in the two Research & Reference Libraries, North York Central Library and the Toronto Reference Library.

The Toronto Public Library entered into a program a few years ago with a company called *Better World Books*, where withdrawn and donated library books that may be out-of-date, but are still in good shape, are sold on-line to the public. Any remaining unsold books are donated to third world countries.

After discontinuing the use of canvas book bags, the Library donated several thousand of these bags to the Toronto District School Board. Students use them to transport school library books to and from school.

The Library continues to recycle all printer, fax and copier cartridges and improve on its in-house recycling program by introducing more effective waste and recycling signage and collection containers.



In its building renovation and construction program, the Library has standardized to new *Smart Sort* waste and recycling containers for staff work areas.

Double and single fibreglass units are available in the libraries' public areas.

The Library will continue to expand its use of fewer large waste and recycling containers at other locations to replace multiple small units. The goal is to streamline practices to increase recycling and decrease waste.



TORONTO TRANSIT COMMISSION

Since 2004, the Toronto Transit Commission (TTC) increased its diversion rate from 48% to 77%. The following examples illustrate some of the waste diversion initiatives implemented.

ELECTRONICS RECYCLING PROGRAM

Collects such unwanted electronic equipment as:

- PC accessories i.e., monitors, keyboards, mouse, wires, speakers;
- circuit boards/components;
- routers, serial & console servers;
- UPS power supplies, surge protectors, cables/cords;
- printers, scanners, drives & modems;
- telecommunications equipment (switches/relays); and
- electronic relays & contactors.



Launched in September 2007, diversion results show:

Year	Material Recycled (tonnes)
2007	0.71
2008	4.86
2009	3.35
2010	3.27

HILLCREST COMPLEX WASTE & RECYCLING TRANSFER AREA



One recommendation from the 2001 Solid Waste Audit was to design and construct a small waste and recycling transfer area at the Hillcrest Complex. Prior to its construction, the material collected (recyclables included) was stockpiled in one area of the yard, then loaded onto a truck and taken to a transfer site for disposal.

In 2004, when the transfer area was constructed, separate storage containers were placed to hold recyclable wood, cardboard and metal.

Additionally, yard waste is now collected separately and transported directly to the City of Toronto transfer sites so it may be sent for processing into compost.

Total amount of recyclable material captured from transfer area (2004-2010):

Year	Material Recycled (tonnes)
2004	1,648
2005	2,144
2006	1,900
2007	1,773
2008	1,763
2009	2,328
2010	2,818

ORGANICS PROGRAM



In 2008, TTC introduced an organics recycling pilot program at the Inglis Cafeteria to supplement its recycling program.

Initially, only organics behind the counter and within the food preparation area were captured, but collection has since expanded to the whole cafeteria. Recycling centres offer employees a one-stop container for waste, cans/bottles and organics. This program was implemented at the remainder of the Hillcrest Complex and also at the Greenwood Complex.

Results from the program launch in September 2008:

Year	Material Recycled (tonnes)
2008	1.43
2009	7.81
2010	9.36

VEHICLE CLEAN RECYCLING PROGRAM



The Vehicle Clean Recycling program aims to capture recyclable material patrons leave behind. Every night, all buses, streetcars and subway vehicles are cleaned. Previously, this material was disposed of as garbage. Previous audits indicated that on average, 75% of this material was recyclable. Employees place recyclables in one bin and garbage in another, resulting in the successful diversion of more than 6,400 tonnes since 2007.

Total amount of recyclable material captured from the Vehicle Clean Recycling Program since 2007:

Year	Material Recycled (tonnes)
2007	1,370
2008	1,740
2009	1,480
2010	1,860

RECYCLING CENTRES IN SUBWAY STATIONS

The quantity of newsprint in the subway system increased significantly in August 2000 with the introduction of free commuter newspapers. Although the TTC had blue newspaper bins in the subway system, these bins were no longer as effective at capturing cans/bottles and additional newsprint because they were not located next to waste containers.



To capture more newsprint and other recyclables, the TTC installed the new style recycling centers (2005) that use the single stream recycling concept similar to the City's Blue Bin recycling program.

Typically there are two recycling containers with one waste container. More recycling centers were installed on track platforms. Currently, there are approximately 2,000 containers within the subway system (1,275 recycling and garbage). In 2010, approximately 1550 metric tonnes of material were diverted from landfill.

OFFICE RECYCLING PROGRAM

The TTC collects recyclables (paper items, cans/bottles) from all office locations and implemented a *No Waste* office program at several locations, including its head office (1900 Yonge St.). It features the installation of central recycling centres with compartments for garbage, paper and cans/bottles. Large under-desk waste containers were replaced by smaller containers clipped to blue boxes.



Total amount of recyclable material captured from the Office Recycling Program:

Year	Material Recycled (tonnes)
2004	230.86
2005	258.93
2006	279.91
2007	247.88
2008	251.45
2009	239.93
2010	205.59

DETAILED BREAKDOWN OF ANNUAL WASTE DIVERSION RATES FOR EACH INDIVIDUAL ABCD AND SCHOOL BOARD

ABCs and School Boards	Annual Diversion Rates (percent)					2009	2010 Weight of Waste and Recyclables (tonnes)		2010 Diversion Rates
	2004	2005	2006	2007	2008		Waste	Recyclables	
Divisions									
Children's Services (1)	15	15	44	54	40	39	190	228	55% *
Culture	43	43	40	40	67	34	781	401	34%
Emergency Medical Services	24	39	40	40	43	N/A	N/A	N/A	N/A
Facilities Management	71	71	79	80	84	85	364	2,014	85%
Fire Services	47	47	44	43	62	59	165	246	60%
Long-Term Care Homes and Services	32	32	54	56	56	62	886	1,444	62%
Parks, Forestry and Recreation (facilities)	25	32	43	51	55	53	754	887	54%
Parks (open spaces)	28	39	43	46	50	50	4,959	4,953	50%
Public Health	n/a	n/a	64	58	57	N/A(2)	N/A	N/A	N/A
Shelter, Support and Housing Administration	13	13	20	21	21	N/A	N/A	N/A	N/A
Employment and Social Services	56	56	58	58	58	88	13	98	88%
Solid Waste Management Services	72	73	71	71	71	71	10	25	71%
Transportation Services (Yard Offices)	59	59	66	69	69	N/A	N/A	N/A	N/A
Transportation Services – Operational Waste	55	77	83	78	78	N/A	N/A	N/A	N/A
Toronto Water – Facility/Yard Offices	24	24	40	41	41	N/A	N/A	N/A	N/A
Toronto Water – Operational Waste	21	21	45	14	14	N/A	N/A	N/A	N/A
Sub-total City Divisions	35	41	61	59	61	55	8,122	10,296	56%

(1)The ability of Children's Services to increase its waste diversion rate is hampered by the fact it cannot recycle the large amount of used diapers generated by its daycare sites; currently there are no used diaper recycling companies operating in Ontario.

(2) H1N1 incident

ABCs and School Boards	Annual Diversion Rates (percent)					2009	2010 Weight of Waste and Recyclables (tonnes)		2010 Diversion Rates
	2004	2005	2006	2007	2008		Waste	Recyclables	
Agencies, Boards, Commissions (ABCs)									
Exhibition Place	37	50	62	63	69	79	821	4,676	85%
Toronto Police Services	n/a	n/a	44	48	50	45	316	501	61%
Toronto Parking Authority (office)	21	46	67	78	78	83	6	22	79%
Toronto Parking Authority (lots)	0	9	22	16	13	14	335	49	13%
Toronto Public Library	60	62	84	86	86	75	494	1,130	70%
TTC	48	64	69	76	77	79	2,837	9,659	77%
Toronto Zoo	39	50	60	55	62	66	189	445	70%
Sub-total City ABCs	55	66	69	72	72	76	4,998	16,482	77%
NET ABCDs	39	49	65	67	67	69	13,120	26,778	67%
School Boards									
TDSB	n/a	48	51	54	63	40	12,201	10,371	46%
TCDSB	n/a	38	48	53	52	54	2,350	2,646	53%
NET SCHOOL BOARDS	n/a	45	50	54	61	43	14,551	13,017	47%
N/A - Data not available									

In this report, the diversion rate is derived by using the following formula:

$\frac{\text{Weight of recyclables}}{\text{Weight of waste collected} + \text{weight of recyclables}} \times 100\%$

Weight of waste collected + weight of recyclables X 100%.

Process residue from recycling facilities is not factored into the calculations.

Note: not all Team members' results appear individually; staff from many divisions including Social Development, Policy, Planning, Finance & Administration and the Auditor General's Office work in Facilities Management buildings. Accordingly, they contribute to Facility Management's waste diversion rate.



Richard Butts, Deputy City Manager

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MEMORANDUM

TO: Dolores Maher, Chair, Waste Diversion Team, Facilities and Real Estate Division

FROM: Lawson Oates, Director, Toronto Environment Office

DATE: August 31, 2009

SUBJECT: **TEO Greenhouse Gas Reduction Programs**

I am writing to alert you to two greenhouse gas ("GHG") reduction reporting obligations of the Toronto Environment Office ("TEO") that depend, in part, on data generated from the Waste Diversion Team's past and ongoing efforts.

Carbon Credit Working Group

Earlier this year, in response to the growing number of regulatory cap-and-trade proposals in Ontario and across North America, the City Manager tasked TEO with developing a methodology for obtaining carbon credits from eligible City of Toronto undertakings. TEO proposed the creation of a Carbon Credit Working Group among City ABCCDs that would properly identify eligible programs and projects, determine the City's ownership interest in those programs and projects, measure GHG reductions from those programs and projects using consistent baselines, and decide what, how, and where to register those reductions for credit. A "carbon credit" refers to the proceeds obtained from officially registering with a governmental or private exchange the units of reductions in the emission of greenhouse gases (e.g. carbon dioxide) that have resulted from a voluntary activity, effort, or project, such as capturing methane gas emitted from a landfill. Credits can then be retired, banked, or sold on the carbon market, for eventual use with GHG reduction regulatory compliance. For Toronto, Council has adopted a policy that any credits that obtained are to be retired.

Solid Waste is represented on the Working Group and is likely to report on the 67% reduction already achieved by the Waste Diversion Team for 2008. We applaud the Team's continued efforts in reaching this target. The data collected to support the reported reductions will further the City's carbon credit registration efforts. Moreover, additional data collected in the future also will prove helpful.



Phase II of Climate Change Plan

A second TEO policy initiative dependent on the results of the Waste Diversion Team's efforts is Phase II of the Climate Change, Clean Air and Sustainable Energy Action Plan (<http://www.toronto.ca/changeisintheair/>). The first phase of the plan was adopted unanimously by Council back in 2007 and includes greenhouse gas reduction targets of 6% by 2012, 30% by 2020, and 80% by 2050. Phase II seeks to measure the progress in meeting those targets and to design enhanced mitigation measures to fill whatever gaps remain. Among other things, we want to look to the 70% Waste Diversion targets for significant GHG reductions. As well, we may want to strengthen the program as an enhanced mitigation measure to fill the gaps in GHG reduction that we identify during Phase II. Consequently, the waste data collected by members of the Waste Diversion Team is essential to the progress of Phase II.

Again, thank you for your continued efforts.



Lawson Oates
Director
Toronto Environment Office

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Increasing waste diversion rates



is a shared responsibility!