



University of Toronto
Fall 2020 Solid Non-Hazardous Waste Audit
Ontario Regulation 102/94

Prepared for:

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Executive Summary

The Facilities & Services Department of the University of Toronto (UofT) retained the services of SDK Environmental to conduct a solid non-hazardous waste audit in the autumn of 2020 at the St. George Campus located in downtown Toronto, Ontario. The waste audit was designed to examine representative samples of garbage from fifteen buildings over a six (6) day period to gain an understanding of the quantities and composition of solid wastes generated on campus. A multi-day compactor study was also conducted to visually assess compactor loads for contamination with source separated recyclables.

A total waste sample weighing approximately 689 kg was collected and audited between October 2 and 9, 2020. Waste was collected from the various waste generation areas in each building, including cafeterias, offices, public areas, laboratories, washrooms, and miscellaneous areas. The following list summarizes the overall garbage composition determined from the waste audit:

- Compostable Fibres: 20.4%
- Organic Food Waste 17.5%
- Total Mixed Papers: 16.6%
- Total Mixed Containers: 10.3%
- Single-use Plastics: 8.0%
- Non-recyclable: 6.3%
- Styrofoam: 3.8%
- Take-out Food Packaging: 2.9%
- Personal Protective Equipment: 2.2%
- Coffee Cups: 2.1%
- Compostable Dishware: 1.8%
- #4 Plastics (LDPE): 1.5%
- Scrap Metals: 1.2%
- Lab Plastics, Food/Snack Wrappers, Printer Toners, Textiles, Gloves, Mixed Plastics, Coffee Pods, Batteries, Cardboard, Drink Cups, Ewaste, Bulbs: Each < 1.0%

Waste diversion programs are implemented on campus for cardboard, paper fibres, mixed containers, scrap wood, scrap metal, paper towels, coffee cups, batteries, light bulbs, electronic goods, yard waste, animal bedding, soil, asphalt, polystyrene, and organics. Through discussions with UofT personnel and service providers, estimates of the annual amounts of waste materials generated were determined. The total amount of waste material generated and diverted from landfill between May 2019 and April 2020 is summarized in the following table:

Material	Total Waste (Metric Tonnes)	Percent
Waste Disposed to Landfill	1906.11	37.0%
Material Reduced	114.40	2.2%
Material Reused	75.03	1.5%
Material Recycled	1571.34	30.5%
Material Composted	1484.66	28.8%
Total Waste Generated	5151.55	100%

Based on the total amount of waste generated and materials diverted, the waste diversion rate at UofT is approximately 63%. The facility's waste diversion rate exceeds the Ministry of the Environment, Conservation & Parks (MECP) provincial objective of 60% waste diversion. UofT's management team are interested in reducing wastes disposed to landfill and maintaining a high waste diversion rate.

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1 Introduction

The Facilities & Services Department of the University of Toronto (UofT) retained the services of SDK Environmental to conduct a solid non-hazardous waste audit in October 2020 at the St. George Campus located in downtown Toronto, Ontario. The waste audit was designed to examine representative samples of garbage from fifteen buildings over a six (6) day period to gain an understanding of the quantities and composition of solid wastes generated on campus. A multi-day compactor study was also conducted to visually assess compactor loads for contamination with source separated recyclables.

UofT is a large multi-building community with approximately 60,000 students, staff and faculty occupying approximately 140 buildings that generate waste and recycling materials. According to UofT's website, 61,737 Full-Time Equivalent (FTE) undergraduate students attended the university in 2017-18 (Refer to Appendix A). UofT conducted the waste audit to comply with the requirements of O.Reg. 102/94. UofT is interested in waste reduction solutions to reduce the amount of wastes disposed to landfill as well as their overall impact on the environment.

Note: The waste audit was conducted during the COVID-19 pandemic response. Occupancy and operations at the university were impacted. The collected waste audit samples and annual service records may not be representative of typical operations and caution should be used when comparing sample data between 2020 and different years at the facility.

1.1 Purpose

The purpose of the solid non-hazardous waste audit was to:

- Comply with Ontario Regulation 102/94 – Waste Audits and Waste Reduction Work Plans Part XI, which requires educational institutions to conduct a waste audit covering the waste generated by the establishment, and prepare and implement a waste reduction work plan on an annual basis if, at the location or campus, at any time during the calendar year, more than 350 persons are enrolled (Refer to Appendix A for a partial excerpt of O.Reg.102/94);
- Confirm compliance with Section 14 of O.Reg.103/94 'Industrial, Commercial and Institutional Source Separation Programs' and Part X 'Educational Institutions' of the Schedule attached to the Regulation (Refer to Appendix A for a partial excerpt of O.Reg.103/94);
- Determine the annual waste diversion rate for the facility resulting from existing waste reduction, reuse, and recycling programs;
- Identify and quantify the composition and point of generation of waste at the facility;
- Identify any additional opportunities for waste reduction and diversion that may exist at the facility; and
- Address any specific concerns or opportunities identified during the study.

1.2 Scope of Work

To satisfy the purpose of the waste audit, the following scope of work was completed:

- Collected data pertaining to waste composition and collection practices at UofT between October 2 & 9, 2020;
- Conducted a compactor study at an off-site transfer station between September 28 and October 1, 2020;
- Determined the total quantity of waste diverted from landfill through existing reduction, reuse, and recycling (3Rs) programs at the facility;
- Completed a Waste Audit Report (per MECP protocol) that addressed the amount, nature and composition of the waste, the manner by which the waste was generated, including management decisions and policies that relate to the production of waste, and the way in which the waste is managed on campus; and
- Completed a Waste Reduction Work Plan (per MECP protocol) regarding plans to reduce, reuse and recycle waste on campus. The report sets out who will implement each part of the plan, when each part will be implemented and what the expected results shall be.

2 Methodology

The Facilities & Services Department conducts an annual waste audit of UofT's St. George Campus, alternating specific buildings being audited and time of year. Per discussions with UofT personnel, the locations summarized in Table 1 were audited in the Fall of 2020.

Table 1: Fall 2020 Waste Audit Sample Summary

Date	Building/Location
Oct. 2, 2020	Fasken Martineau Building, Robarts Library (Day 1), Sussex Court
Oct. 5, 2020	Whitney Hall (Day 1), Warren Stevens Building, Wallberg Building
Oct. 6, 2020	Edward Johnson Building, Sanford Fleming Building, Robarts Library (Day 2)
Oct. 7, 2020	Whitney Hall (Day 2), CCBR (Day 1), Astronomy
Oct. 8, 2020	Koffler Student Centre, Flavelle House, Lash Miller Chemical Labs
Oct. 9, 2020	CCBR (Day 2), Fields Institute, Simcoe Hall

A copy of the original waste audit schedule is attached in Appendix A.

In coordination with the UofT staff, one (1) twenty-four hour sample of waste was collected from each of the identified buildings in the waste audit schedule. Some buildings were audited twice to obtain a more representative sample. Bags of trash were collected and tagged with coloured labels describing the functional area within the building that generated the waste material, as summarized in Table 2.

Table 2: Waste Audit Functional Area Summary

All Areas Excluding New College - Colour Tag	Functional Area
Blue	Office / Administrative Areas
Yellow	Laboratories
Black	Public Areas (Class rooms, lobbies, lounges, libraries, corridors, etc.)
Green	Cafeterias
Red	Washrooms
White	Miscellaneous

The tagged bags of wastes were brought to designated collection areas by UofT staff and placed in temporary plastic containers. The total bagged weight of all trash collected from each functional area per building were recorded. Refer to Appendix A for a copy of the Scale Calibration Certificate.

Waste materials were then unloaded, sorted into individual waste categories, weighed, re-bagged and disposed of in appropriate garbage or recycling bins. Samples of garbage were sorted by qualified Waste Reduction Group staff. Some of the source separated materials collected by UofT for recycling (i.e. cardboard, organics, ewastes, printer toners, etc) were not collected and categorized during the audit (due to infrequency of generation) however the annual quantity of each material was reviewed and included in the audit results.

The following waste material categories were established prior to the audit based on O.Reg.103/94 requirements for source separation at educational institutions:

- Aluminum food or beverage cans (including cans made primarily of aluminum);
- Cardboard (corrugated);
- Fine paper;
- Glass bottles and jars for food or beverages;
- Newsprint; and
- Steel food or beverage cans (including cans made primarily of steel).

In addition to these standard categories other important waste streams such as other mixed containers (PET, HDPE, polypropylene, polystyrene, gable top, aseptic), organic wastes, paper towels, mixed plastics, Styrofoam, yard waste, electronic waste (ewaste), scrap wood, scrap metal and special wastes (i.e. batteries, bulbs and ballasts) were included depending on what auditors found in the samples.

Visual inspections of waste compactor loads were conducted between September 28 and October 1, 2020 to identify obvious divertible wastes that do not belong in the trash. Emphasis was placed on recyclable materials, large and special items such as furniture, electronics, scrap metals, construction waste, large plastic items, and source separated recyclables that should not have been disposed in the garbage compactor by staff. Compactor audit results can be found in Appendix A.

3 Waste Audit Results

A key aspect of O. Reg. 102/94 is for waste generators to gain a good understanding of the areas of their operation that generate the most waste, how it is generated, as well as the waste composition. One can use this information to focus their recycling and waste reduction efforts efficiently and effectively.

3.1 Garbage Quantities and Distribution

In total, 688.84 kg of garbage materials were collected for the waste audit. Table 3 ranks the amount of garbage generated per building based on the audit results.

Table 3: Quantity of Garbage Generated per Audited Building

Building Name	Garbage Sample kg	Percentage ⁽¹⁾ %
CCBR (Day 2)	119.95	17.4%
Whitney Hall	109.71	15.9%
Robarts Library	93.08	13.5%
CCBR	76.24	11.1%
Whitney Hall (Day 2)	48.51	7.0%
Sanfod Fleming Building	45.29	6.6%
Robarts Library (Day 2)	38.84	5.6%
Lash Miller Chemical Labs	37.38	5.4%
Wallberg Building	30.46	4.4%
Edward Johnson Building	23.74	3.4%
Koffler Student Centre	22.82	3.3%
Simcoe Hall	22.29	3.2%
Warren Stevens Building	14.70	2.1%
Astronomy	5.83	0.8%
Fasken Martineau Building	No Sample	----
Sussex Court	No Sample	----
Flavelle House	No Sample	----
Fields Institute	No Sample	----
Total	688.84	100.0%

Note 1: Percentage based on individual 24-hr garbage sample results from the waste audit.

Based on the 24-hour sample results, CCBR, Whitney Hall and Robarts Library were the most significant generators of garbage, representing approximately 50% of the sample (based on 24-hr period). Since each building generates such a large volume of waste, each was sampled twice to obtain a larger sample size.

Table 4 ranks the amount of garbage generated per building functional area based on the waste audit results.

Table 4: Quantity of Garbage Generated per Functional Area

Functional Area	Garbage Sample kg	Percentage ⁽¹⁾ %
Public Areas	347.06	50.4%
Labs	207.74	30.2%
Offices	58.93	8.6%
Cafeteria	42.19	6.1%
Miscellaneous	23.27	3.4%
Washrooms	9.65	1.4%
Total	688.84	100.0%

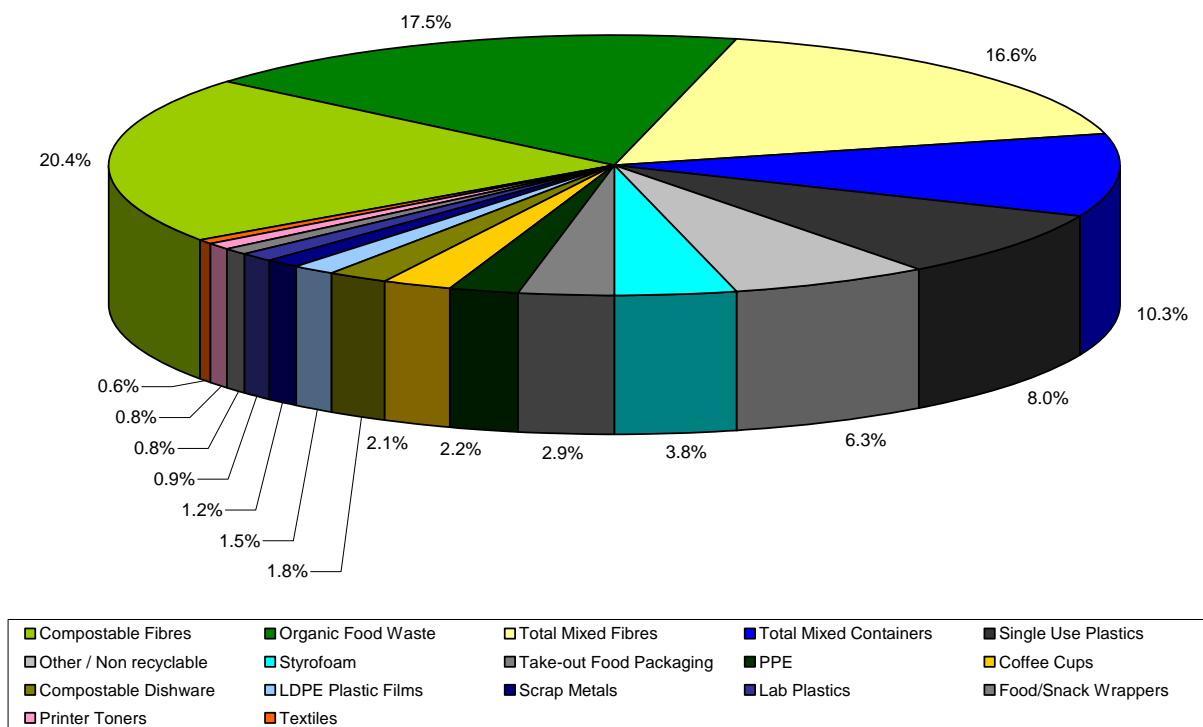
Note 1: Percentage based on individual 24-hr garbage sample results from the waste audit.

Therefore, Public areas and Labs generated the most garbage on campus, representing approximately 81% of the waste audit sample.

3.2 Overall Garbage Composition

Figure 1 summarizes the overall garbage composition generated at UofT based on the waste audit conducted in October 2020:

Figure 1: Overall Garbage Sample Composition



Summary tables for each building per waste generation functional area, including waste material weights and percentages, are included in Appendix B.

Based on the waste audit results, it was estimated that approximately 20.4% (or 388 tonnes annually) of solid waste disposed to landfill consisted of compostable fibres (such as paper towels). All audited functional areas of buildings, except labs, generated high quantities of this material. In general, it has been observed that more compostable fibres are present in the garbage stream during the COVID-19 pandemic response. UofT may wish to investigate the feasibility of implementing an expanded paper towel recycling program to capture more of this material on campus in order to reduce the amount of this material disposed to landfill. Paper towels are not a mandatory recyclable material per O.Reg.103/94.

Based on the waste audit results, it was estimated that approximately 17.5% (or 334 tonnes annually) of solid waste disposed to landfill consisted of organic materials (i.e. food wastes). Organics were found in high amounts in Public, Miscellaneous and Cafeteria areas. An organics compost program exists at UofT in designated areas. The results suggest that an expanded collection system, improved signage and/or student/staff education programs may be required to improve the capture rate of this material. Organics are not a mandatory recyclable material per O.Reg.103/94. However, according to Ontario's Food and Organic Waste Policy Statement, it is proposed that ICI Sectors will have to reduce and/or recover food and organic wastes between 50%-70% by 2025.

Based on the waste audit results, it was estimated that approximately 16.6% (or 317 tonnes annually) of solid waste disposed to landfill consisted of mixed papers (fine papers, newsprint, boxboard, other paper fibres, etc). The most common type found was boxboard. A mixed paper recycling program exists at UofT. This data suggests that better collection systems, improved signage and/or student/staff education programs may be required to improve the capture rate of this material. Fine paper and newsprint are mandatory recyclables at educational institutions per O.Reg.103/94.

Based on the waste audit results, it was estimated that approximately 10.3% (or 196 tonnes annually) of solid waste disposed to landfill consisted of mixed containers (aluminum cans, glass jars, plastic bottles, tetra packs, milk cartons, etc). The most common types of materials found were PET (#1), glass, and #6 plastic containers. A mixed container recycling program exists at UofT. This data suggests that better collection systems, improved signage and/or student/staff education programs may be required to improve the capture rate of this material. Glass, steel and aluminum containers are mandatory recyclables at educational institutions per O.Reg.103/94.

3.3 Garbage Composition per Building

Figures 2 through 12 summarize the garbage composition per building.

Figure 2: CCBR

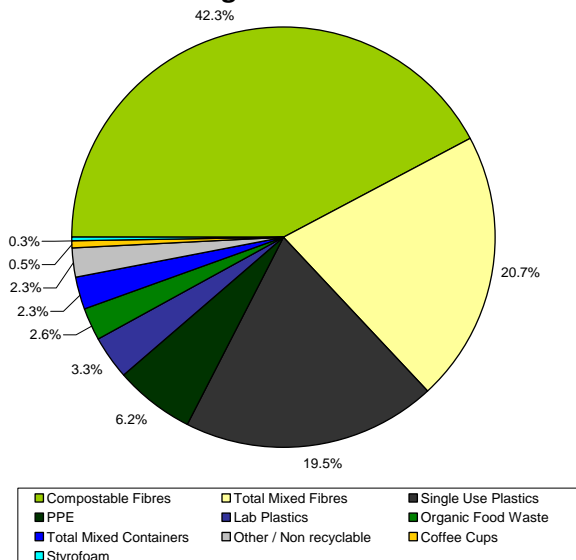


Figure 3: Whitney Hall

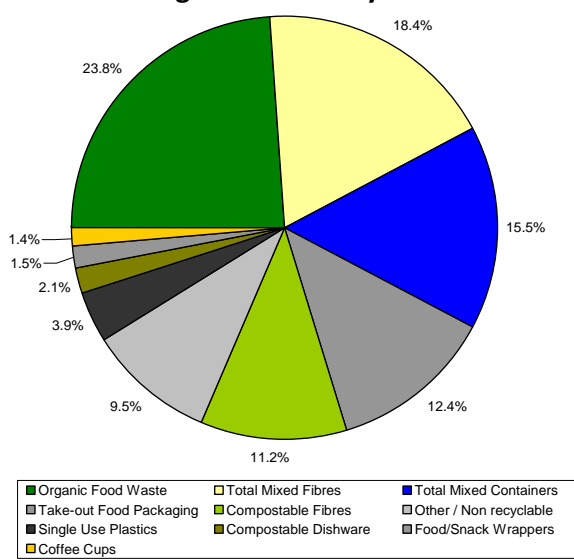


Figure 4: Roberts Library

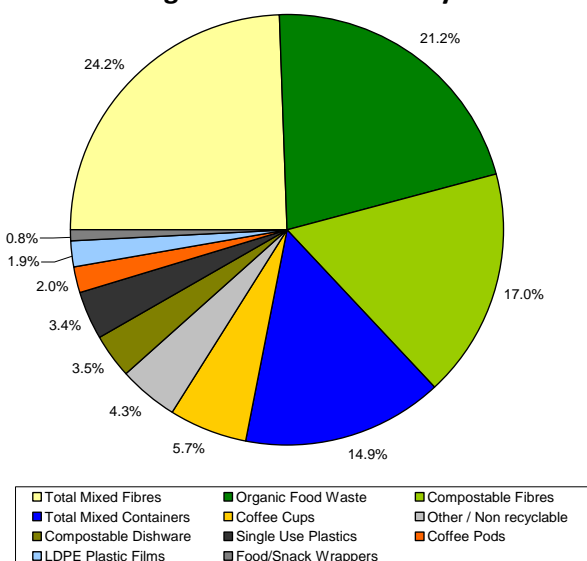


Figure 5: Sanford Fleming Building

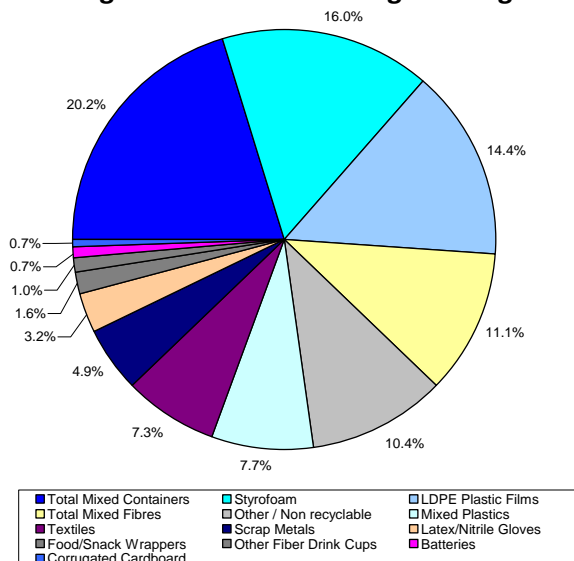


Figure 6: Lash Miller Chemical Labs

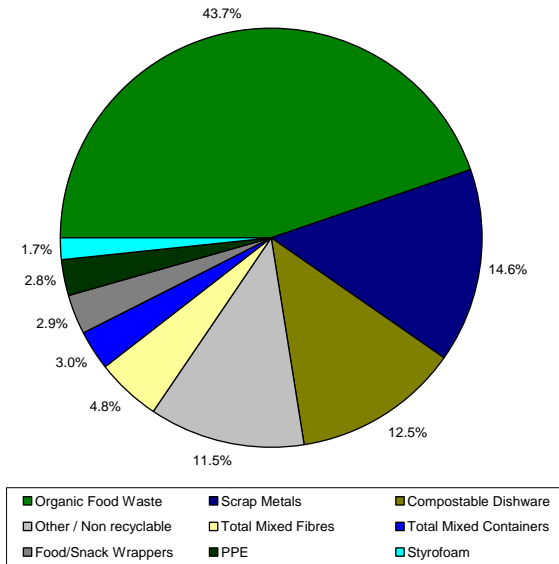


Figure 7: Wallberg Building

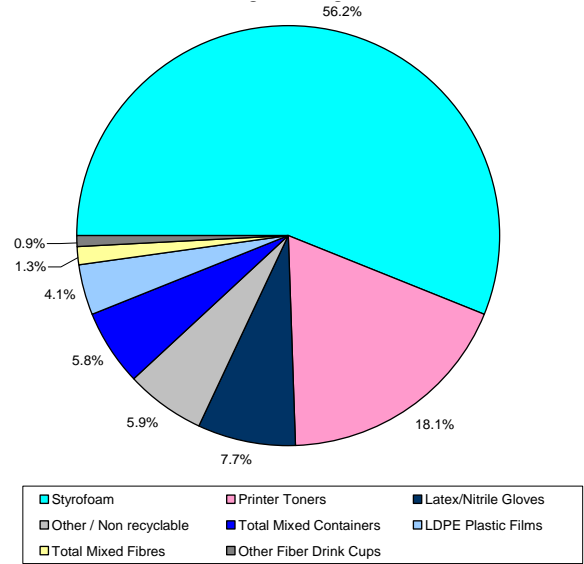


Figure 8: Edward Johnson Building

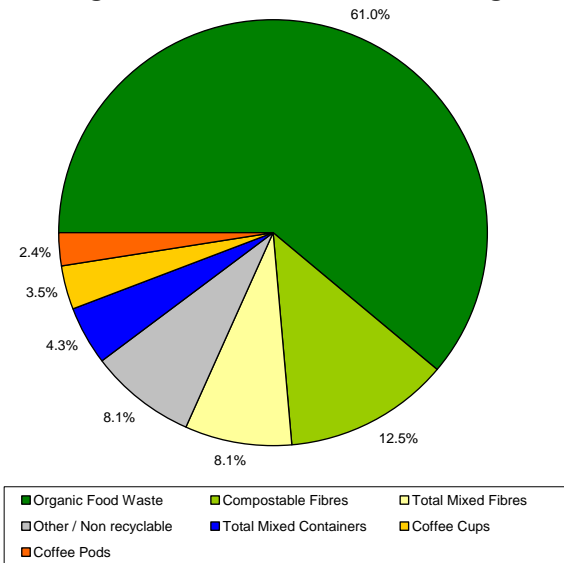


Figure 9: Koffler Student Centre

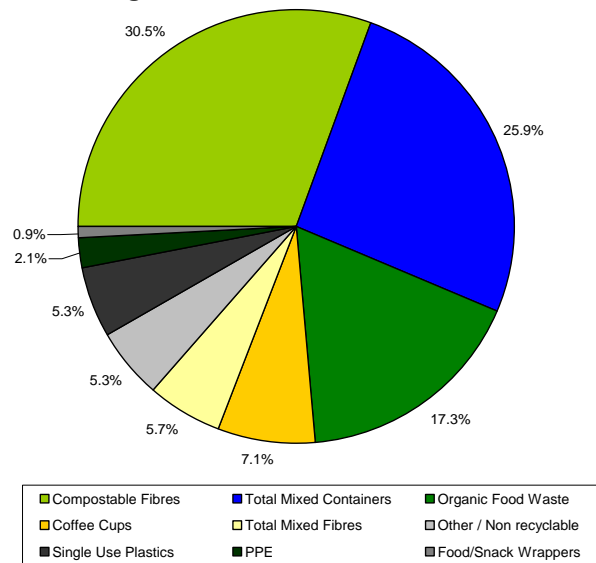


Figure 10: Simcoe Hall

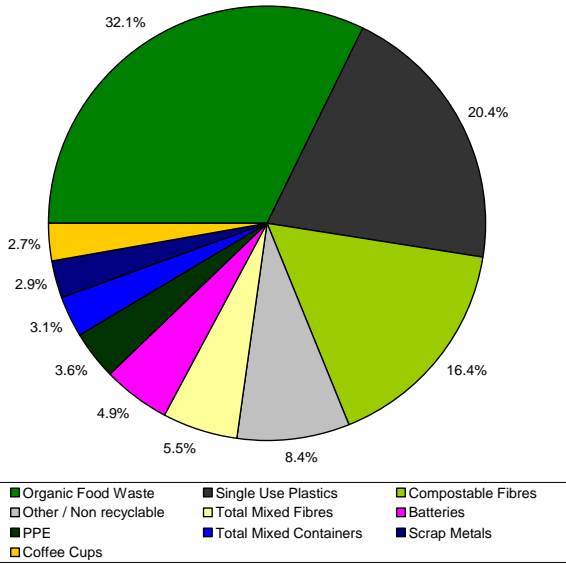


Figure 11: Warren Stevens Building

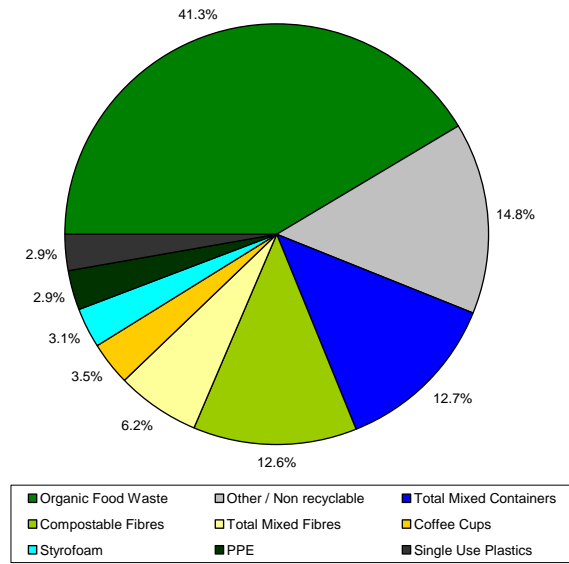
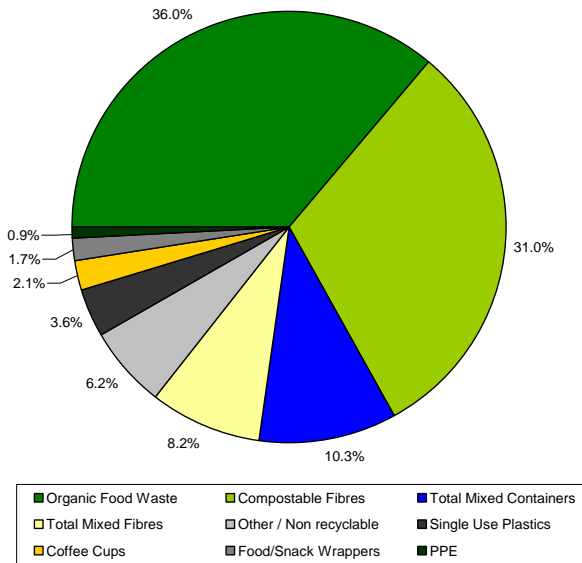


Figure 12: Astronomy



3.4 Garbage Composition per Functional Area

Figures 13 through 18 summarize the garbage composition per functional area of buildings that were audited.

Figure 13: Office Areas

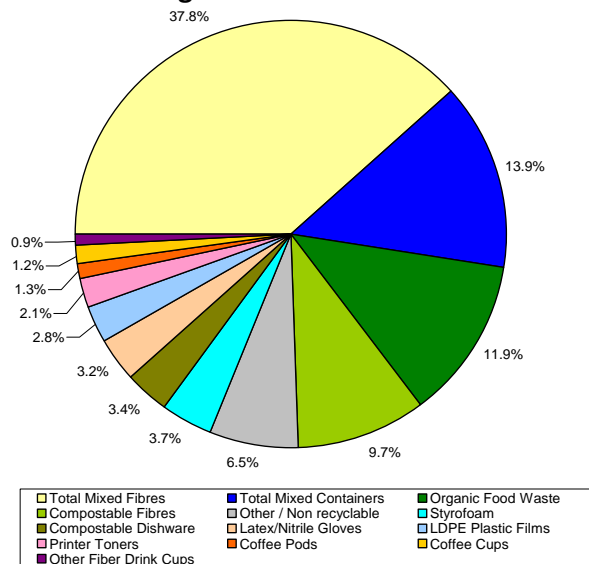


Figure 14: Lab Areas

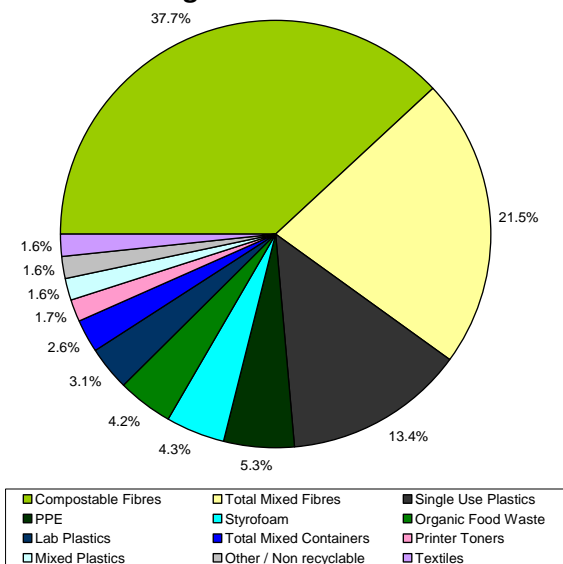


Figure 15: Public Areas

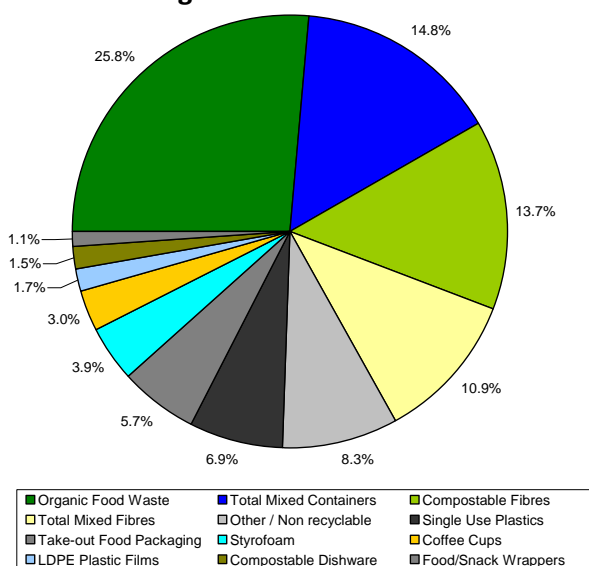
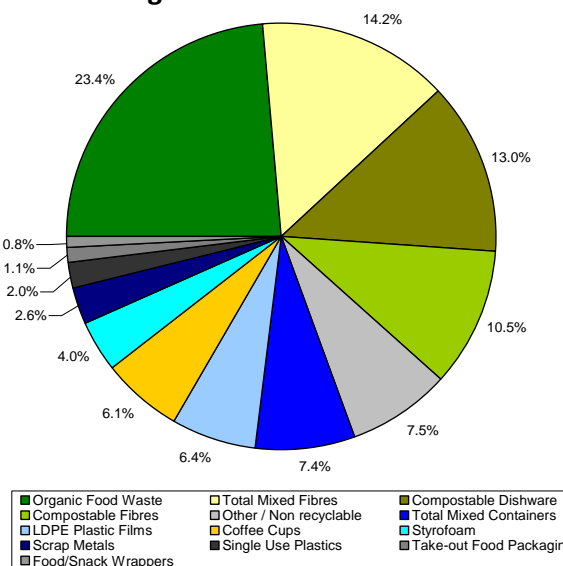
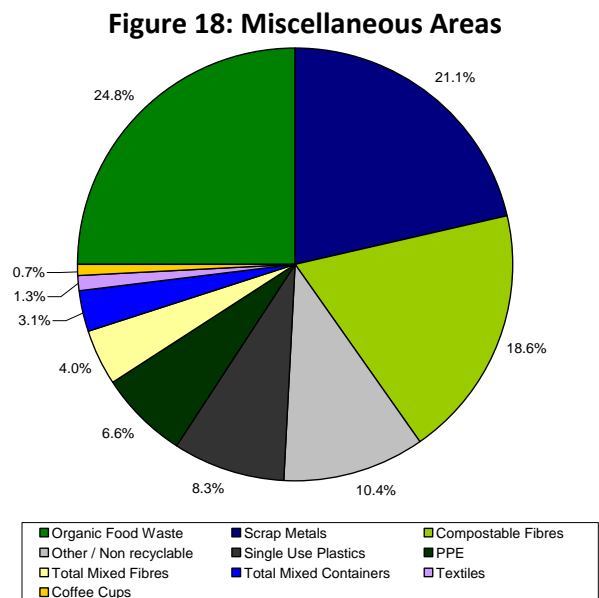
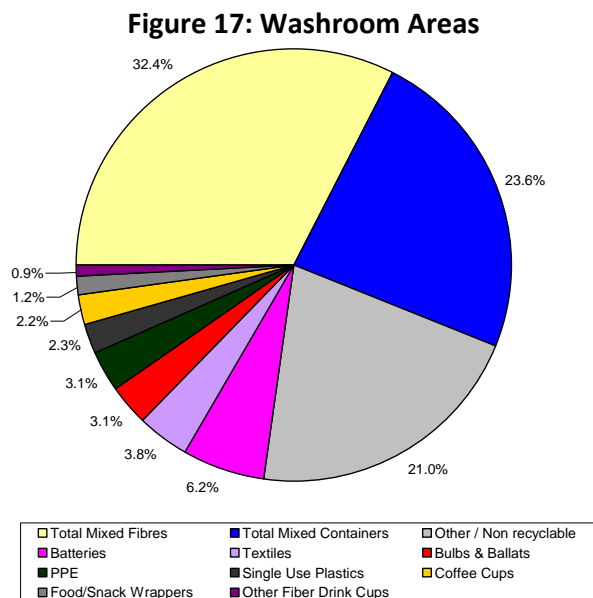


Figure 16: Cafeteria Areas





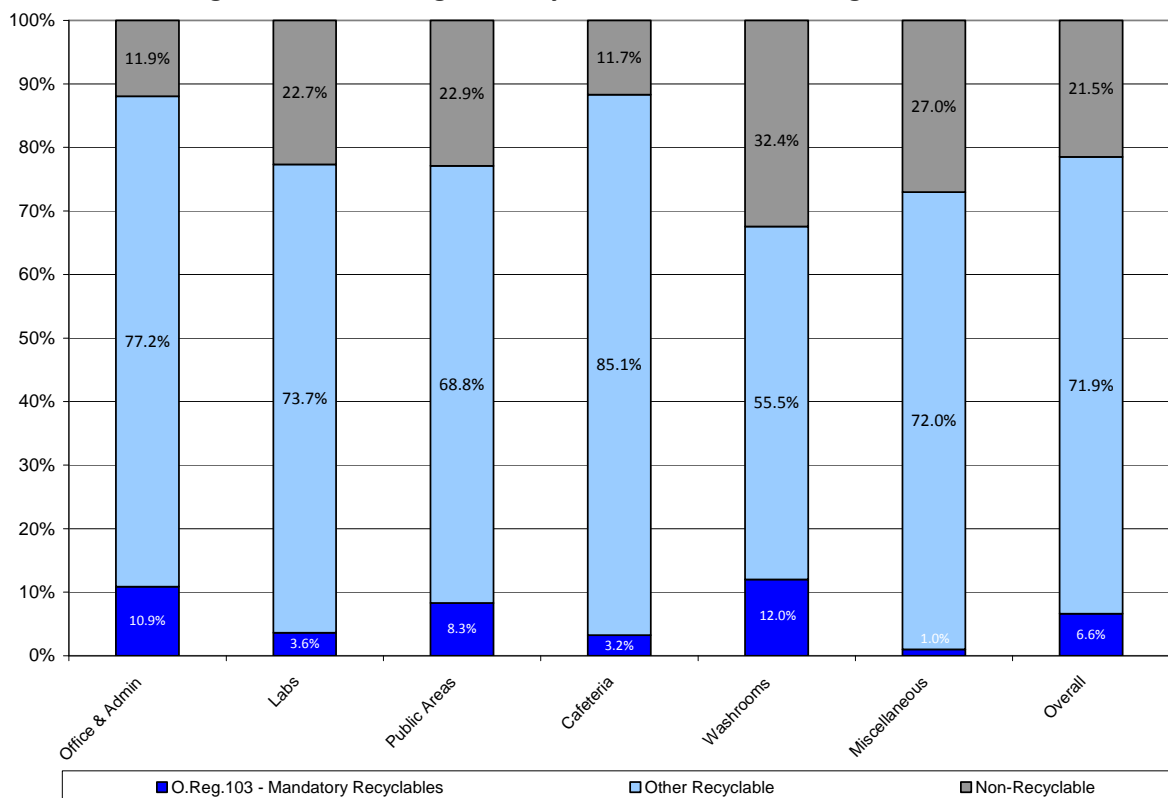
3.5 Percentage of Recyclables in Garbage Stream

O.Reg. 103/94 requires that ‘educational institutions’ source separate the following materials (at a minimum):

- Aluminum food or beverage cans (including cans made primarily of aluminum);
- Cardboard (corrugated);
- Fine paper;
- Glass bottles and jars for food or beverages;
- Newsprint; and
- Steel food or beverage cans (including cans made primarily of steel).

Figure 19 summarizes the quantity of these ‘mandatory’ recyclable materials found in the waste audit garbage samples compared to ‘other recyclable’ materials (i.e. non-mandatory recyclables), as well as to ‘non-recyclable’ materials found in the garbage sample.

Figure 19: Percentage of Recyclables found in Garbage Stream



The waste audit data suggests that the garbage stream has a ‘mandatory’ recyclable content of 6.6% in the combined garbage from all areas of the university. The most common ‘mandatory’ recyclables included glass bottles, fine papers and aluminum cans.

‘Other Recyclables’ represented 71.9% of the sample. These ‘Other Recyclable’ materials consisted mainly of compostable fibres, organic food waste and boxboard.

Approximately 21.5% of the waste sample consisted of non-recyclable items, including but not limited to mixed materials, personal protective equipment, used latex/nitrile gloves, single-use plastics, non-recyclable take-out/fast food containers, non-recyclable food wrappers, waxed cups, non-recyclable packaging materials, non-recyclable plastics, soiled materials (i.e. cardboard covered with paint/oil, materials heavily soiled with food), single-use coffee pods, liquids, binders, office supplies (pens/markers/etc), adhesives/tapes, labels, label backings and foreign wastes (small bags full of mixed garbage typical from other sources), laminated materials, fabrics/clothes, shoes, mop heads, hygiene products, floor sweepings, diapers, plus other miscellaneous wastes.

4 Diversion Programs & Waste Systems

4.1 Diversion Programs

Recycling programs have been implemented at UofT to Reduce/Reuse/Recycle/Compost a wide range of materials. As part of the waste audit, discussions were held with UofT personnel to gain an understanding of the waste diversion practices currently in place at the institution. Table 5 summarizes the amount of waste diverted from landfill due to the reduce/reuse/recycle/compost programs implemented at the institution.

Table 5: Waste Diversion Summary

Waste Category	Recycled/Reused/Reduced	Quantity (MT)
Mixed Papers	Recycled	329.17
Paper Towels	Recycled	78.50
Miscellaneous Paper	Recycled	5.55
Cardboard	Recycled	237.99
Confidential Papers	Recycled	123.48
Scrap Wood	Recycled	169.21
Scrap Metals	Recycled	75.89
Asphalt	Recycled	0.00
Stone, Pavers & Screening	Recycled	50.00
Soil from Construction Projects	Recycled	46.00
Concrete from Construction	Recycled	60.00
Clean Fill	Recycled	10.00
Batteries	Recycled	2.32
Fluorescent Bulbs	Recycled	6.60
Polystyrene	Recycled	6.00
Aero. Misc. Pick Ups	Recycled	5.40
89 Chestnut Mixed Containers	Recycled	192.00
M. Hall Mixed Containers	Recycled	23.52
Mixed Containers	Recycled	37.49
Coffee Cups	Recycled	11.00
Amber Bottles	Recycled	5.60
Electronic Wastes	Recycled	52.27
Mixed Plastics	Recycled	5.25
Misc: tires, mattresses, rocks etc.	Recycled	4.16
Lab Glass & Plastic	Recycled	33.95
Yard Wastes	Composted	104.61
Animal Bedding	Composted	94.85
Soil & Plant P/U	Composted	111.00
Plant & Tree Use, Composting	Composted	0.00
Grass & Wood Mulch	Composted	55.00
Catch Basin Material	Composted	12.00

Organics	Composted	724.77
89 Chestnut Organics	Composted	382.44
Swap Shop - Out, Including Pad	Reused	34.50
In-Swap	Reused	12.00
Campus Furniture Projects	Reused	3.06
Wood Pallets	Reused	12.00
LCBO/Beer Store Returns	Reused	13.47
Reduction via Various Programs	Reduced	114.40
		3245.44

Therefore, the total amount of waste materials diverted from landfill from May 2019-April 2020 was approximately 3245.44 MT. The total quantity of materials diverted between May 2019 and April 2020 was approximately 316 MT less than the previous audit period. The difference is mainly due to reduced occupancy and operations at the university due to COVID-19. Source separation programs implemented at UofT exceed the minimum requirements of O.Reg.103/94 for educational institutions.

Although not quantified for the waste audit report, UofT has implemented a number of programs to assist in their recycling efforts including having ‘as needed’ staff working on-site at the Medical Science yard and at South Borden Building to clean and separate materials such as coffee cups, polystyrene, tires, clean/amber glass as well as other unique materials. Mixed containers are removed from bags so the materials are loose and easier for the recycling company to handle the material to ensure it is recycled. Lids on coffee pods are removed, contents emptied and pods recycled.

In future months, the Facilities & Services Department will be conducting another departmental survey to update their records and account for materials that are diverted through department specific programs such as confidential paper shredding, furniture/equipment donations and surplus assets, electronic wastes, as well as to remind departmental staff of available programs such as the lug-a-mug program, double-sided or no-print policies, and organic program availability for office kitchen areas.

4.2 Waste Disposal Systems

Based on the information provided by UofT, approximately 1906.11 of solid non-hazardous waste was disposed from the site to landfill between May 2019 and April 2020. The total quantity of disposed wastes between May 2019 and April 2020 was approximately 252 MT less than the previous audit period. The difference is mainly due to reduced occupancy and operations at the university due to COVID-19. Wastes are collected throughout the facility and transferred into various compactors located throughout campus.

5 Performance Metrics

5.1 Waste Diversion Rate

Waste Diversion Rate is the percentage of waste materials that a facility diverts from landfill due to reduce, reuse and recycling (i.e. 3Rs) programs versus the total amount of waste generated (i.e. 3Rs plus disposed). According to MECP, Waste Diversion Rate is calculated as follows:

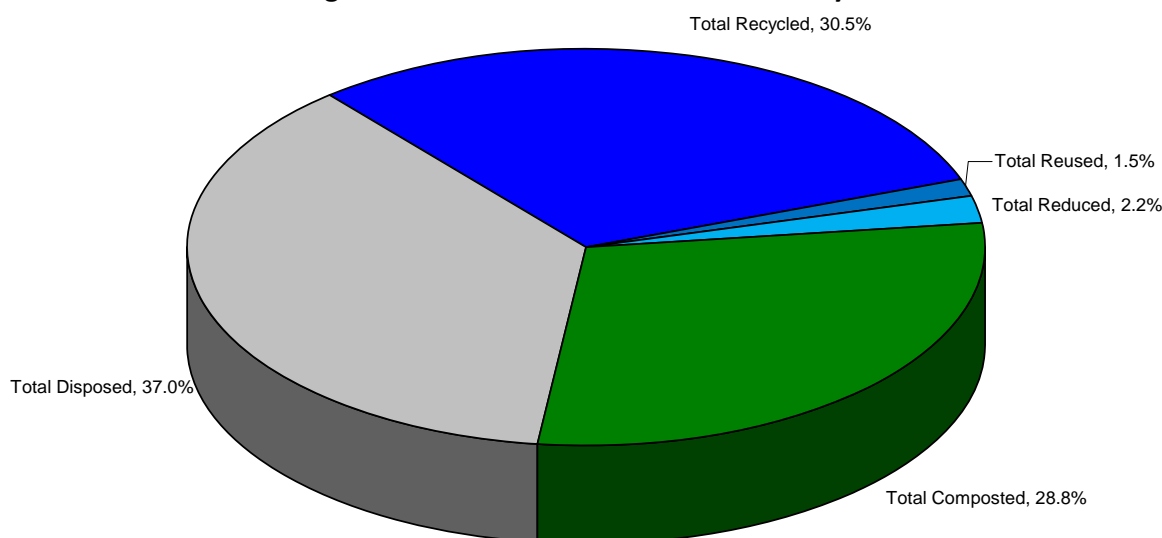
$$\text{Waste Diversion Rate} = \frac{\text{Total Waste Diverted (3Rs)}}{\text{Total Waste Generated}} * 100\%$$

Based on the total amount of waste generated, as well as materials diverted, the annual waste diversion rate through existing programs at UofT is approximately 63%. Table 6 and Figure 20 summarize the overall quantities of wastes disposed, reduced, reused, recycled and composted at UofT's St. George Campus. The MECP provincial objective is 60% waste diversion.

Table 6: Waste Quantities Disposed, Recycled & Reused

Material	Total Quantities	
	(Metric Tonnes)	Percent
Waste Disposed to Landfill	1906.11	37.0%
Material Reduced	114.40	2.2%
Material Reused	75.03	1.5%
Material Recycled	1571.34	30.5%
Material Composted	1484.66	28.8%
Total Waste Generated	5151.55	100%
Waste Diversion Rate		63.0%

Figure 3: 2019-2020 Waste Audit Summary



5.2 Capture Rate

Capture rate is the proportion of divertible waste materials which are successfully diverted from disposal compared to the total amount of the divertible waste materials generated. According to the Recycling Council of Ontario, Capture Rate is calculated as follows:

$$\text{Capture Rate} = \frac{\text{Total Divertible Material Captured (3Rs)}}{\text{Total Divertible Material Generated}} * 100\%$$

Thus, capture rate assists in determining the effectiveness of recycling programs. Table 7 summarizes the capture rate for the main divertible materials at UofT:

Table 7: Capture Rate Summary

Divertible Material	Annual Material Generated Metric Tonnes	Annual 3Rs Quantity Captured Metric Tonnes	Capture Rate Percent
Mixed Papers	652.05	334.72	51.3%
Paper Towels	466.95	78.50	16.8%
Cardboard	240.18	237.99	99.1%
Confidential Papers	123.48	123.48	100.0%
Scrap Wood	169.21	169.21	100.0%
Scrap Metals	98.96	75.89	76.7%
Stone, Pavers & Screening	50.00	50.00	100.0%
Soil from Construction Projects	46.00	46.00	100.0%
Concrete from Construction	60.00	60.00	100.0%
Clean Fill	10.00	10.00	100.0%
Batteries	6.33	2.32	36.6%
Fluorescent Bulbs	7.54	6.60	87.5%
Polystyrene	79.22	6.00	7.6%
Aero. Misc. Pick Ups	5.40	5.40	100.0%
Mixed Containers	462.86	253.01	54.7%
Coffee Cups	51.79	11.00	21.2%
Amber Bottles	5.60	5.60	100.0%
Electronic Wastes	53.23	52.27	98.2%
Mixed Plastics	14.91	5.25	35.2%
Misc: tires, mattresses, rocks etc.	4.16	4.16	100.0%
Lab Glass & Plastic	51.63	33.95	65.8%
Yard Wastes	104.61	104.61	100.0%
Animal Bedding	94.85	94.85	100.0%
Soil & Plant P/U	111.00	111.00	100.0%
Grass & Wood Mulch	55.00	55.00	100.0%
Catch Basin Material	12.00	12.00	100.0%
Organics	1094.04	724.77	66.2%
89 Chestnut Organics	382.44	382.44	100.0%
Swap Shop - Out, Including Pad	34.50	34.50	100.0%

In-Swap	12.00	12.00	100.0%
Campus Furniture Projects	3.06	3.06	100.0%
LCBO/Beer Store	13.47	13.47	100.0%
Wood Pallets	12.00	12.00	100.0%
Overall Facility	4588.48	3131.04	68.2%

Capture rates of most materials were very high, ranging from approximately 65% to 100%. Mixed papers, paper towels, batteries, polystyrene, mixed containers, coffee cups and mixed plastics had the only values less than 65%, being approximately 51%, 17%, 37%, 8%, 55%, 21% and 35% respectively. The overall capture rate of all recyclables on campus was approximately 68%.

5.3 Year –over-Year Change in Waste Generation

Waste diversion rate and capture rate do not always demonstrate how effective a site’s 3R programs are operating. This is due to the continual change of many important factors involved in waste and recyclable material generation on campus, such as number of students enrolled, floor area of buildings, etc. As student numbers change or more buildings are added to the campus, quantities of waste and recyclables change making it difficult to have a direct comparison of data between years. It is recommended that UofT track ‘Year over Year’ changes in the amount of wastes disposed and/or materials recycled per standard unit. This allows direct comparison of data from year to year, thus assisting the university in gaining an understanding of the effectiveness of their 3Rs programs. For UofT, the most applicable standard unit is Full-time equivalent students, or FTE.

5.3.1 Year-over-Year Change in 3Rs Quantities

The ‘Year-over-Year Change in 3Rs Quantities’ is the indicator of the amount of materials diverted from disposal through reduce, reuse and/or recycle activities per FTE compared to previous data. Table 8 summarizes the results for the 2019-20 year compared to previous years. A positive year-over-year change indicates 3Rs programs are improving over time.

Table 8: Yr-over-Yr Change in 3Rs Quantities

Period	Total Materials Reduced, Reused Recycled (MT)	FTE	Annual 3R Quantity (kg/FTE)	Yr-over-Yr Change in 3Rs Quantity (kg)
2019-2020	3245.44	63,127	51.41	-5.72
2018-2019	3561.25	62,333	57.13	-10.16
2015-2016	4098.45	60,903	67.29	-11.36
2013-2014	4555.43	57,919	78.65	+0.52
2012-2013	4418.23	56,547	78.13	+2.48
2011-2012	4141.3	54,745	75.65	+4.64
2010-2011	3,810.68	53,664	71.01	--

5.3.2 Year-over-Year Change in Garbage Disposed

The ‘Year over Year Change in Trash Disposed’ is the indicator of the amount of reduction in waste materials disposed to landfill due to reduction, reuse and recycling activities on campus. Table 9 summarizes the results for the 2019-20 year compared to previous years. A reduction in the year over year value will indicate the university is continually reducing wastes disposed to landfill.

Table 9: Yr-over-Yr Change in Garbage Disposed

Period	Total Materials Disposed to Landfill (MT)	FTE	Annual Disposed Quantity (kg/FTE)	Yr-over-Yr Change in Disposed Quantity (kg)
2019-2020	1906.11	63,127	30.19	-4.43
2018-2019	2158.24	62,333	34.62	+0.12
2015-2016	2101.41	60,903	34.50	+1.64
2013-2014	1903.05	57,919	32.86	+0.67
2012-2013	1820.37	56,547	32.19	+1.94
2011-2012	1655.9	54,745	30.25	-2.88
2010-2011	1777.5	53,664	33.12	--

6 Waste Audit Summary & Waste Reduction Work Plan

Refer to Appendix C and Appendix D for the Waste Audit Summary and the Waste Reduction Work Plan respectively. The last page of each set of forms in the appendices need to be signed by an authorized person at the University.

According to O.Reg. 102/94, the Waste Reduction Work Plan (Appendix D) or a summary of the plan must be posted at the University in a place where staff/students can review it. If a summary is posted, the entire Work Plan should also be made available for review by any staff/student upon request:

7 Conclusions & Recommendations

Based on the results of the solid non-hazardous waste audit conducted for UofT, the following conclusions can be made. Recommendations presented below are intended to assist UofT in maximizing their waste diversion potential at the institution.

- Between May 2019 and April 2020, UofT disposed of approximately 1906.11 tonnes of solid waste in landfills. Approximately 3245.44 tonnes of waste materials were diverted through existing reduce, reuse, recycle and compost activities. This represents a waste diversion rate of approximately 63.0%. The provincial objective is 60% waste diversion.
- Source separation programs have been implemented at UofT for a variety of materials, including but not limited to, cardboard, paper fibres, mixed containers, scrap wood, scrap metal, paper towels, coffee cups, batteries, light bulbs, electronic goods, yard waste, animal bedding, soil, asphalt, polystyrene, and organics.
- Source separation programs implemented at UofT exceed the minimum requirements of O.Reg.103/94 for educational institutions.
- In total, 688.84 kg of waste was collected and sorted for the waste audit. CCBR, Whitney Hall and Robarts Library were the most significant generators of garbage, representing approximately 50% of the sample (based on the 24-hour sample results).
- Public and Lab areas generated the most garbage on campus, representing approximately 81% of the waste audit sample.

- The University of Toronto has a 'mandatory' recyclable content of 6.6% in the combined garbage from all areas at the university. The most common 'mandatory' recyclables included glass bottles, fine papers and aluminum cans. 'Other Recyclables' represented 71.9% of the sample. These 'Other Recyclable' materials consisted mainly of compostable fibres, organic food waste and boxboard. Approximately 21.5% of the waste sample consisted of non-recyclable items.
- Based on the waste audit results, it was estimated that approximately 20.4% (or 388 tonnes annually) of solid waste disposed to landfill consisted of compostable fibres (such as paper towels). All audited functional areas of buildings, except labs, generated high quantities of this material. In general, it has been observed that more compostable fibres are present in the garbage stream during the COVID-19 pandemic response. UofT may wish to investigate the feasibility of implementing an expanded paper towel recycling program to capture more of this material on campus in order to reduce the amount of this material disposed to landfill. Paper towels are not a mandatory recyclable material per O.Reg.103/94.
- Based on the waste audit results, it was estimated that approximately 17.5% (or 334 tonnes annually) of solid waste disposed to landfill consisted of organic materials (i.e. food wastes). Organics were found in high amounts in Public, Miscellaneous and Cafeteria areas. An organics compost program exists at UofT in designated areas. The results suggest that an expanded collection system, improved signage and/or student/staff education programs may be required to improve the capture rate of this material. Organics are not a mandatory recyclable material per O.Reg.103/94. However, according to Ontario's Food and Organic Waste Policy Statement, it is proposed that ICI Sectors will have to reduce and/or recover food and organic wastes between 50%-70% by 2025.
- Based on the waste audit results, it was estimated that approximately 16.6% (or 317 tonnes annually) of solid waste disposed to landfill consisted of mixed papers (fine papers, newsprint, boxboard, other paper fibres, etc). The most common type found was boxboard. A mixed paper recycling program exists at UofT. This data suggests that better collection systems, improved signage and/or student/staff education programs may be required to improve the capture rate of this material. Fine paper and newsprint are mandatory recyclables at educational institutions per O.Reg.103/94.
- Based on the waste audit results, it was estimated that approximately 10.3% (or 196 tonnes annually) of solid waste disposed to landfill consisted of mixed containers (aluminum cans, glass jars, plastic bottles, tetra packs, milk cartons, etc). The most common types of materials found were PET (#1), glass, and #6 plastic containers. A mixed container recycling program exists at UofT. This data suggests that better collection systems, improved signage and/or student/staff education programs may be required to improve the capture rate of this material. Glass, steel and aluminum containers are mandatory recyclables at educational institutions per O.Reg.103/94.
- Capture rates of most materials were very high, ranging from approximately 65% to 100%. Mixed papers, paper towels, batteries, polystyrene, mixed containers, coffee cups and mixed plastics had the only values less than 65%, being approximately 51%, 17%, 37%, 8%, 55%, 21% and 35% respectively. The overall capture rate of all recyclables on campus was approximately 68%.

- The 'Year-over-Year Change in 3Rs Quantities' is the indicator of the amount of materials diverted from disposal through reduce, reuse and/or recycle activities per FTE compared to previous data. The 'Year-over-Year Change in 3Rs Quantities' was determined to be -5.72 kg/FTE in 2019-20. A positive year-over-year change indicates 3Rs programs are improving over time.
- The 'Year over Year Change in Trash Disposed' is the indicator of the amount of reduction in waste materials disposed to landfill due to reduction, reuse and recycling activities on campus. The 'Year over Year Change in Trash Disposed' was determined to be -4.43 kg/FTE in 2019-20. A reduction in the year over year value will indicate the university is continually reducing wastes disposed to landfill.
- UofT will be reviewing and updating departmental information in future months. It has been a number of years since the department confidential shredding survey was completed. This should be updated as well as interview department contacts regarding asset management, and/or other furniture/equipment donations, electronic waste recycling/donations and/or special wastes that were not accounted for in the waste audit. At the same time, department contacts can be educated/reminded about office organic and coffee cup diversion programs as well as any specialty diversion programs implemented on campus that they may not be aware of.
- It is recommended that UofT meet with the Sustainability Department regarding any possible 3R's programs that have been implemented on-site that are currently unknown, and quantified so they can be included in the waste audit report.
- Continue to make use of multi-compartment containers (i.e. recycling depots) for waste collection and recycling as much as possible. Remove all "solitary" waste bins at the facility. We recommend only having waste bins that are attached to or close to multi-compartment recycling containers.
- It is recommended that UofT continue to educate staff and students regarding the on-campus recycling programs. UofT has implemented a four (4) stream program: garbage, mixed papers, mixed containers and coffee cups. Staff and students should be reminded of the importance of placing the correct material into the correct bin in order to minimize contamination.
- Continue to add and maintain signs at recycling depots to assist staff and students in sorting wastes easily and correctly. Signs should be easily visible and instructive, such as those having pictograms. Signs are a very effective method of increasing participation, reducing contamination and increasing material capture rates.
- Provide easy access to contact information for help with questions regarding all recycling programs. Each recycling program should have as much consistency as possible across the entire campus.
- Ensure UofT's Environmental Policy is clearly displayed to emphasize the facility's commitment to environmental stewardship, which can also be demonstrated in its newsletters, brochures, annual reports and contracts. Regular newsletters promoting the campus' waste reduction programs, goals and concerns will increase employee/student cooperation.

- Continue to collect all recyclables and wastes in clear plastic garbage bags instead of black plastic garbage bags. This allows maintenance staff to monitor waste collection, as well as to ensure that separated waste streams are disposed of in the correct containers.
- Support and encourage the purchase and use of “environmentally friendly”, reusable or recyclable materials and packaging, and/or those that contain recycled content. This is applicable to U of T’s office paper and paper towel purchases.
- According to O.Reg. 102/94, the Waste Reduction Work Plan (Appendix D) or a summary of the plan must be posted at the facility in a place where employees can review it. If a summary is posted, the entire Waste Reduction Work Plan should also be made available for review by any of the facility employees upon request.
- According to O.Reg. 102/94, the waste audit and waste reduction work plan must be updated on an annual basis.
- According to O.Reg. 102/94, a report of the waste audit and waste reduction work plan must be retained on file for a minimum of five years.
- Ensure that the waste diversion program has the full support of U of T’s management team.

Appendix A

Supporting Documentation

Table 2 Total Full-Time Equivalent (FTE)

Total UofT FTE (Fall)	2018-19 Actual	2019-20 Plan	2019-20 Actual	%	2019-20 Variance to Plan	2019-20 Change over 2018-19	2020-21 Plan	2021-22 Projected	2022-23 Projected	2023-24 Projected	2024-25 Projected
Arts & Humanities	4,288		4,163	17%		(126)					
Social Sciences - Excl. BCOM	5,852		6,008	25%		156					
Social Sciences - BCOM (Yrs 2-4)	1,975		1,918	8%		(58)					
Life Sciences	5,157		5,067	21%		(90)					
Other Sciences	6,964		7,229	30%		265					
Arts & Science St. George	24,236	23,673	24,384	100%	711	148	24,851	24,982	25,333	25,457	25,483
Arts & Humanities	2,960		3,157	25%		197					
Social Sciences - Excl. BCOM/BBA	4,511		4,512	35%		1					
Social Sciences - BCOM/BBA (Yrs 2-4)	918		920	7%		2					
Life Sciences	1,489		1,498	12%		8					
Other Sciences	2,455		2,631	21%		177					
UTM	12,332	12,543	12,718	100%	175	385	12,956	13,089	13,039	13,059	13,063
Arts & Humanities	1,922		1,951	17%		29					
Social Sciences - Excl. BBA	3,350		3,475	31%		125					
Social Sciences - BBA (Yrs 1-4)	1,467		1,567	14%		100					
Life Sciences	1,297		1,231	11%		(66)					
Other Sciences	3,047		2,958	26%		(89)					
UTSC	11,083	11,357	11,182	100%	(175)	99	11,484	11,770	12,041	12,420	12,481
Total Undergraduate Arts & Science	47,651	47,572	48,283		711	632	49,291	49,841	50,412	50,936	51,028
Undergraduate Other Direct-Entry (Note 1)	7,218	7,056	7,316		260	98	7,310	7,337	7,389	7,344	7,297
Total Direct-Entry	54,869	54,629	55,599		970	730	56,602	57,178	57,801	58,280	58,325
Undergraduate Second-Entry Professional	7,139	7,070	7,206		137	68	7,183	7,222	7,258	7,265	7,251
Undergraduate Conjoint TST Programs	325	343	322		(21)	(4)	329	334	338	343	347
TOTAL UNDERGRADUATE - UofT	62,333	62,041	63,127		1,085	794	64,114	64,734	65,396	65,888	65,923
St. George	7,923	8,385	8,468		83	545	8,695	8,973	9,058	9,126	9,208
UTM	482	562	517		(44)	35	563	611	630	638	643
UTSC	100	140	130		(9)	31	150	194	194	194	194
Professional Master's	8,505	9,086	9,116		29	611	9,409	9,779	9,882	9,959	10,045
Doctoral Stream Master's	3,125	3,049	2,976		(73)	(150)	2,933	2,962	2,993	3,008	3,019
Doctoral	6,443	6,761	6,851		90	407	7,095	7,485	7,835	8,058	8,258
Graduate Conjoint TST Programs	245	214	242		28	(3)	219	208	204	208	204
TOTAL GRADUATE - UofT	18,319	19,110	19,184		74	865	19,655	20,433	20,915	21,233	21,526
St. George excl. TST (Note 2)	55,863	55,775	56,980		1,204	1,116	57,848	58,743	59,650	60,045	60,302
UTM (Note 2)	13,035	13,323	13,456		133	420	13,739	13,918	13,883	13,910	13,920
UTSC	11,182	11,496	11,312		(184)	130	11,634	11,964	12,235	12,615	12,676
TST Conjoint Programs	570	557	564		6	(7)	548	541	542	551	551
TOTAL COMBINED FTEs - UofT	80,652	81,152	82,311		1,159	1,659	83,768	85,166	86,311	87,121	87,448

Notes: 1. 'Direct-entry' includes undergraduate programs offered by the following divisions: Arts & Science St. George, UTM, UTSC, Applied Science & Engineering, Architecture, Landscape & Design, Kinesiology & Physical Education, and Music, as well as the Transitional Year program.
 2. Medicine MD and MScOT students at UTM are included in the UTM subtotal above.

Table 2 Total Full-Time Equivalent (FTE)

Total UofT FTE (Fall)	2017-18 Actual	2018-19 Plan	2018-19 Actual	%	2018-19 Variance to Plan	2018-19 Change over 2017-18	2019-20 Plan	2020-21 Projected	2021-22 Projected	2022-23 Projected	2023-24 Projected
Arts & Humanities	4,433		4,288	18%		(145)					
Social Sciences - Excl. BCOM	5,933		5,852	24%		(82)					
Social Sciences - BCOM (Yrs 2-4)	1,895		1,975	8%		80					
Life Sciences	5,314		5,157	21%		(157)					
Other Sciences	6,514		6,964	29%		449					
Arts & Science St. George	24,090	24,067	24,236	100%	169	146	23,673	23,359	22,877	22,762	22,546
Arts & Humanities	2,936		2,960	24%		23					
Social Sciences - Excl. BCOM/BBA	4,377		4,511	37%		135					
Social Sciences - BCOM/BBA (Yrs 2-4)	973		918	7%		(55)					
Life Sciences	1,366		1,489	12%		123					
Other Sciences	2,178		2,455	20%		277					
UTM	11,830	12,066	12,332	100%	267	503	12,543	12,601	12,607	12,508	12,445
Arts & Humanities	1,826		1,922	17%		96					
Social Sciences - Excl. BBA	3,395		3,350	30%		(45)					
Social Sciences - BBA (Yrs 1-4)	1,453		1,467	13%		14					
Life Sciences	1,226		1,297	12%		71					
Other Sciences	3,017		3,047	27%		30					
UTSC	10,917	11,156	11,083	100%	(73)	166	11,357	11,489	11,666	11,898	11,980
Total Undergraduate Arts & Science	46,836	47,288	47,651		363	814	47,572	47,449	47,150	47,168	46,970
Undergraduate Other Direct-Entry (Note 1)	7,303	7,242	7,218		(24)	(84)	7,056	7,117	7,100	7,163	7,172
Total Direct-Entry	54,139	54,530	54,869		339	730	54,629	54,566	54,250	54,331	54,142
Undergraduate Second-Entry Professional	7,269	7,159	7,139		(20)	(131)	7,070	7,104	7,112	7,130	7,138
Undergraduate Conjoint TST Programs	329	331	325		(6)	(4)	343	344	345	346	346
TOTAL UNDERGRADUATE - UofT	61,737	62,020	62,333		313	596	62,041	62,014	61,707	61,806	61,626
St. George	7,439	7,848	7,923		75	485	8,385	8,564	8,689	8,831	8,902
UTM	421	494	482		(12)	61	562	602	620	637	642
UTSC	103	135	100		(35)	(3)	140	151	195	195	195
Professional Master's	7,963	8,476	8,505		29	542	9,086	9,317	9,505	9,664	9,740
Doctoral Stream Master's	3,158	3,167	3,125		(42)	(32)	3,049	3,068	3,100	3,128	3,130
Doctoral	6,158	6,277	6,443		166	285	6,761	7,124	7,469	7,789	8,079
Graduate Conjoint TST Programs	247	209	245		37	(2)	214	211	199	199	196
TOTAL GRADUATE - UofT	17,525	18,129	18,319		189	794	19,110	19,721	20,272	20,780	21,145
St. George excl. TST (Note 2)	55,197	55,540	55,863		323	667	55,775	56,120	56,130	56,589	56,754
UTM (Note 2)	12,469	12,779	13,035		256	566	13,323	13,420	13,443	13,359	13,300
UTSC	11,020	11,290	11,182		(108)	162	11,496	11,640	11,861	12,094	12,175
TST Conjoint Programs	576	540	570		30	(6)	557	555	544	545	542
TOTAL COMBINED FTEs - UofT	79,262	80,149	80,652		502	1,389	81,152	81,734	81,979	82,586	82,771

Notes: 1. 'Direct-entry' includes undergraduate programs offered by the following divisions: Arts & Science St. George, UTM, UTSC, Applied Science & Engineering, Architecture, Landscape & Design, Kinesiology & Physical Education, and Music, as well as the Transitional Year program.
 2. Medicine MD and MScOT students at UTM are included in the UTM subtotal above.

Table 2 Total Full Time Equivalent (FTE)

Total UofT FTE (Fall)	2016-17 Actual	2017-18 Plan	2017-18 Actual	%	2017-18 Variance to Plan	2017-18 Change over 2016-17	2018-19 Plan	2019-20 Projected	2020-21 Projected	2021-22 Projected	2022-23 Projected
Arts & Humanities	4,718		4,433	18%		(285)					
Social Sciences - Excl. BCOM	5,931		5,933	25%		2					
Social Sciences - BCOM (Yrs 2-4)	1,859		1,895	8%		36					
Life Sciences	5,306		5,314	22%		8					
Other Sciences	6,083		6,514	27%		431					
Arts & Science St. George	23,897	23,813	24,090	100%	277	193	24,067	23,661	23,321	22,945	22,589
Arts & Humanities	2,851		2,936	25%		85					
Social Sciences - Excl. BCOM/BBA	4,446		4,377	37%		(69)					
Social Sciences - BCOM/BBA (Yrs 2-4)	974		973	8%		(2)					
Life Sciences	1,339		1,366	12%		27					
Other Sciences	2,089		2,178	18%		89					
UTM	11,699	11,898	11,830	100%	(68)	131	12,066	12,188	12,333	12,409	12,425
Arts & Humanities	1,746		1,826	17%		81					
Social Sciences - Excl. BBA	3,331		3,395	31%		64					
Social Sciences - BBA (Yrs 1-4)	1,392		1,453	13%		61					
Life Sciences	1,314		1,226	11%		(88)					
Other Sciences	2,965		3,017	28%		52					
UTSC	10,747	11,090	10,917	100%	(173)	170	11,156	11,281	11,351	11,439	11,518
Total Undergraduate Arts & Science	46,343	46,801	46,836		36	494	47,288	47,130	47,006	46,793	46,532
Undergraduate Other Direct-Entry (Note 1)	7,338	7,261	7,303		41	(36)	7,242	7,104	7,113	7,110	7,123
Total Direct-Entry	53,681	54,062	54,139		77	458	54,530	54,233	54,120	53,902	53,655
Undergraduate Second-Entry Professional	7,252	7,342	7,269		(73)	17	7,159	7,170	7,204	7,215	7,212
Undergraduate Conjoint TST Programs	329	332	329		(3)	(1)	331	331	331	331	331
TOTAL UNDERGRADUATE - UofT	61,262	61,736	61,737		1	475	62,020	61,735	61,655	61,448	61,198
St. George	7,166	7,564	7,439		(125)	272	7,888	8,512	8,670	8,725	8,761
UTM	421	441	421		(21)	0	454	490	522	532	549
UTSC	79	106	103		(3)	24	135	180	195	240	285
Professional Master's	7,666	8,111	7,963		(149)	297	8,476	9,182	9,387	9,497	9,595
Doctoral Stream Master's	2,988	2,997	3,158		160	169	3,167	3,137	3,149	3,164	3,167
Doctoral	6,122	6,023	6,158		135	36	6,277	6,463	6,709	6,899	7,087
Graduate Conjoint TST Programs	254	231	247		16	(7)	209	201	199	190	191
TOTAL GRADUATE - UofT	17,029	17,362	17,525		163	496	18,129	18,983	19,444	19,750	20,040
St. George excl. TST (Note 2)	54,547	54,787	55,197		410	649	55,580	55,830	55,951	55,842	55,724
UTM (Note 2)	12,336	12,552	12,469		(83)	134	12,739	12,895	13,071	13,156	13,189
UTSC	10,826	11,196	11,020		(176)	195	11,290	11,461	11,546	11,679	11,803
TST Conjoint Programs	583	563	576		13	(7)	540	532	530	522	522
TOTAL COMBINED FTEs - UofT	78,292	79,098	79,262		164	971	80,149	80,718	81,099	81,198	81,238

Notes: 1. 'Direct-entry' includes undergraduate programs offered by the following divisions: Arts & Science St. George, UTM, UTSC, Applied Science & Engineering, Architecture, Landscape & Design, Kinesiology & Physical Education, and Music, as well as the Transitional Year program.
 2. Medicine MD students at UTM are included in the UTM subtotal above (ranging from 216 to 224 students per annum).
 3. Dentistry Professional Master programs were reclassified to Doctoral Stream Masters in 2016-17 onwards.

Table 2 Total Full Time Equivalent (FTE)

Total UofT FTE (Fall)	2014-15 Actual	2015-16 Plan	2015-16 Actual	%	2015-16 Variance to Plan	2015-16 Change over 2014-15	2016-17 Plan	2017-18 Projected	2018-19 Projected	2019-20 Projected	2020-21 Projected
Arts & Humanities	5,233		5,067	21%		(166)					
Social Sciences - Excl. BCOM	6,179		6,416	26%		238					
Social Sciences - BCOM (Yrs 2-4)	1,601		1,683	7%		82					
Life Sciences	4,971		5,463	23%		492					
Other Sciences	4,623		5,610	23%		986					
Arts & Science St. George	22,608	22,891	24,240	100%	1,349	1,632	24,197	24,300	24,322	23,966	23,880
Arts & Humanities	2,678		2,692	24%		14					
Social Sciences - Excl. BCOM/BBA	4,201		4,264	38%		62					
Social Sciences - BCOM/BBA (Yrs 2-4)	953		992	9%		39					
Life Sciences	1,164		1,297	12%		133					
Other Sciences	1,733		1,946	17%		213					
UTM	10,729	11,377	11,190	100%	(186)	461	11,689	12,091	12,414	12,551	12,578
Arts & Humanities	1,855		1,818	17%		(37)					
Social Sciences - Excl. BBA	3,007		3,003	29%		(3)					
Social Sciences - BBA (Yrs 1-4)	1,422		1,439	14%		17					
Life Sciences	1,284		1,343	13%		58					
Other Sciences	2,521		2,884	27%		363					
UTSC	10,088	10,627	10,486	100%	(141)	398	10,841	11,195	11,452	11,637	11,686
Total Undergraduate Arts & Science	43,425	44,894	45,916		1,022	2,491	46,727	47,586	48,187	48,153	48,144
Undergraduate Other First-Entry	7,293	7,289	7,400		111	107	7,095	7,134	7,105	7,056	7,122
Total First-Entry	50,718	52,183	53,316		1,133	2,598	53,822	54,720	55,292	55,208	55,266
Undergraduate Second-Entry Professional	7,839.6	7,173	7,248		74	(592)	7,267	7,309	7,221	7,218	7,212
Undergraduate Conjoint TST Programs	309	318	340		21	31	324	324	324	324	324
TOTAL UNDERGRADUATE - UofT	58,866	59,674	60,903		1,229	2,037	61,413	62,353	62,838	62,751	62,802
St. George	6,185	6,680	6,696		16	511	7,224	7,554	7,753	7,875	7,953
UTM	342	419	383		(36)	40	434	453	458	458	458
UTSC	87	92	88		(4)	2	90	100	105	105	105
Professional Master's	6,614	7,191	7,167		(24)	553	7,747	8,107	8,317	8,438	8,516
Doctoral Stream Master's	2,773	2,844	2,744		(100)	(30)	2,854	2,974	3,007	3,013	3,014
Doctoral	6,040	6,056	6,063		7	23	6,094	6,193	6,344	6,470	6,595
Graduate Conjoint TST Programs	223	226	253		27	30	230	228	233	225	215
TOTAL GRADUATE - UofT	15,650	16,317	16,227		(90)	577	16,925	17,502	17,901	18,145	18,340
St. George excl. TST	52,738	52,932	54,389		1,457	1,651	54,730	55,464	55,752	55,596	55,775
UTM	11,072	11,796	11,573		(223)	501	12,123	12,545	12,872	13,009	13,036
UTSC	10,175	10,719	10,575		(144)	400	10,931	11,295	11,557	11,742	11,791
TST Conjoint Programs	532	544	593		48	61	554	552	558	549	539
TOTAL COMBINED FTEs - UofT	74,516	75,991	77,130	-	1,138	2,613	78,339	79,856	80,738	80,896	81,142

Table 2 Total Full Time Equivalent (FTE)

Total UofT FTEs incl. TST (Fall)	2002-03 Actual	%	2004-05 Actual	2013-14 Actual	2014-15 Plan	2014-15 Actual	%	2014-15 Variance to Plan	2014-15 Change from 2013-14	2015-16 Plan	2016-17 Projected	2017-18 Projected	2018-19 Projected	2019-20 Projected
Arts & Humanities	6,611	35%	7,276	5,700		5,233	23%		(467)					
Social Sciences - Excl. BCOM	4,163	22%	4,957	6,317		6,179	27%		(139)					
Social Sciences - BCOM (Yrs 2-4)	885	5%	1,192	1,622		1,601	7%		(21)					
Life Sciences	3,960	21%	4,861	4,978		4,971	22%		(7)					
Other Sciences	3,103	17%	2,797	4,067		4,623	20%		556					
St George, A&S	18,722	100%	21,082	22,684	22,622	22,608	100%	(14)	(76)	22,891	23,139	23,346	23,549	23,558
Arts & Humanities	1,891	33%	2,425	2,708		2,678	25%		(30)					
Social Sciences - Excl. BCOM/BBA	2,111	37%	2,556	4,204		4,201	39%		(2)					
Social Sciences - BCOM/BBA (Yrs 2-4)	406	7%	584	987		953	9%		(34)					
Life Sciences	761	13%	738	1,125		1,164	11%		39					
Other Sciences	489	9%	992	1,459		1,733	16%		274					
UTM	5,657	100%	7,295	10,482	11,182	10,729	100%	(453)	247	11,377	11,907	12,327	12,680	12,831
Arts & Humanities	1,409	25%	1,699	1,934		1,855	18%		(80)					
Social Sciences - Excl. BBA	1,471	26%	2,079	2,945		3,007	30%		62					
Social Sciences - BBA (Yrs 1-4)	792	14%	1,124	1,417		1,422	14%		5					
Life Sciences	608	11%	1,040	1,224		1,284	13%		60					
Other Sciences	1,284	23%	1,286	2,159		2,521	25%		361					
UTSC	5,564	100%	7,228	9,680	10,318	10,088	100%	(230)	408	10,627	10,986	11,286	11,476	11,511
Total Undergraduate Arts & Science	29,942		35,605	42,846	44,121	43,425		(696)	579	44,894	46,032	46,960	47,704	47,901
Total Undergraduate Other First-Entry	4,799		5,105	6,870	7,195	7,293		98	423	7,289	7,226	7,290	7,079	7,103
Total First-Entry	34,741		40,710	49,716	51,317	50,718		(599)	1,001	52,183	53,258	54,249	54,783	55,004
Total Undergraduate Second-Entry Professional	6,443		6,691	7,811	7,635	7,840		204	29	7,173	7,172	7,231	7,163	7,161
Total Undergraduate Conjoint TST Programs	360		374	321	308	309		1	(12)	318	318	318	318	318
TOTAL UNDERGRADUATE - UofT	41,544		47,776	57,848	59,260	58,866		(393)	1,019	59,674	60,749	61,798	62,264	62,483
St. George	2,897		3,242	5,717	6,260	6,185		(75)	468	6,680	7,242	7,520	7,679	7,769
UTM	168		180	308	339	342		3	34	419	446	458	458	458
UTSC				74	81	87		6	13	92	105	110	110	110
Professional Masters	3,064		3,422	6,099	6,680	6,614		(66)	515	7,191	7,793	8,089	8,247	8,337
Doctoral Stream Masters	2,453		2,504	2,785	2,804	2,773		(31)	(12)	2,844	2,944	3,019	3,062	3,082
Doctoral Stream PHD	4,307		4,559	5,959	6,030	6,040		10	81	6,056	6,235	6,421	6,642	6,841
Graduate Conjoint TST Programs	188		221	221	226	223		(3)	2	226	213	228	222	220
TOTAL GRADUATE - UofT	10,012		10,706	15,064	15,739	15,650		(89)	586	16,317	17,185	17,757	18,173	18,481
St. George excl. TST	39,619		43,184	51,826	52,545	52,738		193	912	52,932	53,959	54,827	55,174	55,515
UTM	5,825		7,475	10,790	11,521	11,072		(450)	281	11,796	12,354	12,785	13,138	13,290
UTSC	5,564		7,228	9,754	10,399	10,175		(224)	421	10,719	11,091	11,396	11,586	11,621
TST Conjoint Programs	548		595	541	534	532		(2)	(10)	544	531	547	540	538
TOTAL COMBINED FTEs - UofT	51,555		58,482	72,912	74,999	74,516		(483)	1,605	75,991	77,934	79,555	80,438	80,964

Table 2 Total Full Time Equivalent Enrolment at the University of Toronto

Total UofT FTEs incl. TST (Fall)	2002-03 Actual	%	2004-05 Actual	2012-13 Actual	2013-14 Plan	2013-14 Actual	%	2013-14 Variance to Plan	2013-14 Variance to 2012-13	2014-15 Plan	2015-16 Projected	2016-17 Projected	2017-18 Projected	2018-19 Projected
Arts & Humanities	6,611	35%	7,276	6,186		5,700	25%		(486)					
Social Sciences - Excl. BCOM	4,163	22%	4,957	6,308		6,317	28%		9					
Social Sciences - BCOM (Yrs 2-4)	885	5%	1,192	1,642		1,622	7%		(21)					
Life Sciences	3,960	21%	4,861	4,506		4,978	22%		472					
Other Sciences	3,103	17%	2,797	3,830		4,067	18%		237					
St George, A&S	18,722	100%	21,082	22,473	22,203	22,684	100%	481	211	22,622	22,849	22,919	22,972	22,926
Arts & Humanities	1,891	33%	2,425	2,728		2,708	26%		(20)					
Social Sciences - Excl. BCOM/BBA	2,111	37%	2,556	3,968		4,204	40%		236					
Social Sciences - BCOM/BBA (Yrs 2-4)	406	7%	584	984		987	9%		3					
Life Sciences	761	13%	738	1,051		1,125	11%		74					
Other Sciences	489	9%	992	1,328		1,459	14%		131					
UTM	5,657	100%	7,295	10,059	10,425	10,482	100%	57	423	11,182	11,840	12,346	12,618	12,682
Arts & Humanities	1,409	25%	1,699	1,862		1,934	20%		72					
Social Sciences - Excl. BBA	1,471	26%	2,079	3,226		2,945	30%		(280)					
Social Sciences - BBA (Yrs 1-4)	792	14%	1,124	1,421		1,417	15%		(4)					
Life Sciences	608	11%	1,040	1,122		1,224	13%		102					
Other Sciences	1,284	23%	1,286	1,566		2,159	22%		594					
UTSC	5,564	100%	7,228	9,196	9,725	9,680	100%	(45)	484	10,318	10,900	11,191	11,471	11,539
Total Undergraduate Arts & Science	29,942		35,605	41,728	42,353	42,846		494	1,118	44,121	45,588	46,456	47,060	47,146
Total Undergraduate Other First-Entry	4,799		5,105	6,594	6,797	6,870		73	276	7,195	7,267	6,985	7,051	7,041
Total First-Entry	34,741		40,710	48,322	49,149	49,716		567	1,394	51,317	52,856	53,441	54,111	54,187
Total Undergraduate Second-Entry Professional	6,443		6,691	7,835	8,058	7,811		(247)	(24)	7,635	7,207	7,241	7,271	7,225
TOTAL UNDERGRADUATE - UofT	41,184		47,402	56,157	57,207	57,527		320	1,370	58,952	60,063	60,682	61,382	61,413
Toronto School of Theology	437		476	390	416	392		(24)	2	399	399	399	399	399
TOTAL UNDERGRADUATE	41,620		47,878	56,547	57,623	57,919		296	1,372	59,351	60,462	61,081	61,782	61,812
St. George	2,897		3,242	5,293	5,661	5,717		56	424	6,260	6,856	7,304	7,503	7,622
UTM	168		180	296	309	308		(1)	12	339	369	379	389	394
UTSC				57	59	74		15	17	81	91	104	109	109
Professional Masters	3,064		3,422	5,646	6,029	6,099		70	453	6,680	7,315	7,786	8,000	8,124
Doctoral Stream Masters	2,453		2,504	2,655	2,735	2,785		50	130	2,804	2,858	2,905	2,932	2,935
Doctoral Stream PHD	4,307		4,559	5,852	5,941	5,959		18	107	6,030	6,129	6,274	6,448	6,629
TOTAL GRADUATE - UofT	9,824		10,485	14,154	14,705	14,843		138	689	15,513	16,303	16,966	17,381	17,688
Toronto School of Theology	258		296	344	338	317		(21)	(27)	321	307	277	263	258
TOTAL GRADUATE	10,082		10,782	14,498	15,042	15,160		118	662	15,835	16,610	17,243	17,644	17,946
St. George excl. TST	39,619		43,184	50,702	51,394	51,826		432	1,124	52,545	53,167	53,628	54,177	54,377
UTM	5,825		7,475	10,355	10,734	10,790		56	435	11,521	12,208	12,724	13,006	13,076
UTSC	5,564		7,228	9,253	9,784	9,754		(30)	501	10,399	10,991	11,295	11,580	11,648
TOTAL COMBINED FTEs - UofT	51,008		57,887	70,311	71,912	72,370		459	2,059	74,465	76,366	77,647	78,763	79,101
Toronto School of Theology	694		772	734	754	709		(45)	(25)	721	707	677	663	658
TOTAL COMBINED FTEs	51,702		58,659	71,045	72,666	73,079		413	2,034	75,186	77,073	78,324	79,426	79,758

Table 2 Total Full Time Equivalent Enrolment at the University of Toronto

Total UofT FTEs incl. TST (Fall)	2002-03 Actual	%	2004-05 Actual	2010-11 Actual	2011-12 Plan	2011-12 Actual	%	2011-12 Variance to Plan	2011-12 Variance to 2010-11	2012-13 Plan	2013-14 Projected	2014-15	2015-16	2016-17
Arts & Humanities	6,611	35%	7,276	7,873		7,638	35%		(235)					
Social Sciences - Excl. BCOM	4,163	22%	4,957	4,641		4,977	23%		336					
Social Sciences - BCOM (Yrs 2-4)	885	5%	1,192	1,510		1,602	7%		92					
Life Sciences	2,520	13%	3,271	2,795		2,839	13%		44					
Other Sciences	4,543	24%	4,387	4,701		4,942	22%		241					
St George, A&S	18,722	100%	21,082	21,520	21,581	21,998	100%	417	478	22,046	21,768	21,566	21,456	21,425
Arts & Humanities	2,316	41%	2,852	3,136		3,280	34%		144					
Social Sciences - Excl. BCOM/BBA	1,685	30%	2,130	2,792		3,132	32%		339					
Social Sciences - BCOM/BBA (Yrs 2-4)	406	7%	584	967		947	10%		(20)					
Life Sciences	358	6%	500	678		634	7%		(44)					
Other Sciences	891	16%	1,230	1,704		1,652	17%		(53)					
UTM	5,657	100%	7,295	9,278	9,592	9,644	100%	52	367	9,929	10,462	11,117	11,709	12,145
Arts & Humanities	1,409	25%	1,699	1,727		1,818	21%		90					
Social Sciences - Excl. BBA	1,471	26%	2,079	2,942		3,060	35%		119					
Social Sciences - BBA (Yrs 1-4)	792	14%	1,124	1,460		1,390	16%		(70)					
Life Sciences	608	11%	1,040	1,067		1,109	13%		42					
Other Sciences	1,284	23%	1,286	1,417		1,350	15%		(67)					
UTSC	5,564	100%	7,228	8,613	8,576	8,727	100%	151	114	9,250	9,884	10,495	10,893	11,089
Total Undergraduate Arts & Science	29,942		35,605	39,410	39,750	40,370		620	959	41,224	42,114	43,177	44,058	44,659
Total Undergraduate Other First-Entry	4,799		5,105	5,920	5,853	6,082		229	162	6,099	6,097	6,105	6,105	6,109
Total First-Entry	34,741		40,710	45,330	45,603	46,452		849	1,121	47,433	48,438	49,605	50,571	51,194
Total Undergraduate Professional	6,443		6,691	7,896	7,851	7,882		32	(13)	7,904	8,062	8,191	8,206	8,227
TOTAL UNDERGRADUATE - UofT	41,184		47,402	53,226	53,454	54,334		880	1,108	55,337	56,501	57,796	58,777	59,420
Toronto School of Theology	437		476	430	453	411		(42)	(27)	454	454	454	454	454
TOTAL UNDERGRADUATE	41,620		47,878	53,664	53,906	54,745		838	1,081	55,791	56,955	58,250	59,231	59,874
St. George	2,897		3,242	4,742	5,011	5,013		2	271	5,294	5,573	5,782	5,975	6,067
UTM	168		180	281	309	295		(14)	14	298	314	327	334	336
UTSC				53	60	55		(5)	2	63	65	87	102	110
Professional Masters	3,064		3,422	5,076	5,380	5,363		(17)	287	5,655	5,952	6,196	6,411	6,513
Doctoral Stream Masters	2,453		2,504	2,630	2,647	2,649		2	19	2,778	2,878	2,941	2,992	2,996
Doctoral Stream PHD	4,307		4,559	5,679	5,718	5,742		24	62	5,843	5,990	6,142	6,330	6,453
TOTAL GRADUATE - UofT	9,824		10,485	13,385	13,745	13,754		9	369	14,276	14,820	15,279	15,733	15,962
Toronto School of Theology	258		296	360	354	327		(26)	(32)	322	324	329	324	320
TOTAL GRADUATE	10,082		10,782	13,745	14,099	14,081		(17)	337	14,598	15,144	15,608	16,057	16,283
St. George excl. TST	39,619		43,184	48,386	48,661	49,367		706	980	50,074	50,595	51,049	51,471	51,703
UTM	5,825		7,475	9,559	9,901	9,939		38	380	10,227	10,776	11,444	12,044	12,482
UTSC	5,564		7,228	8,666	8,637	8,782		145	116	9,312	9,949	10,582	10,995	11,199
TOTAL COMBINED FTEs - UofT	51,008		57,887	66,611	67,198	68,088		889	1,477	69,613	71,321	73,075	74,510	75,383
Toronto School of Theology	694		772	798	807	738		(68)	(60)	776	778	783	778	774
TOTAL COMBINED FTEs	51,702		58,659	67,409	68,005	68,826		821	1,417	70,389	72,099	73,858	75,288	76,157

**Environmental Protection Act
Loi sur la protection de l'environnement**

Partial copy of
O.Reg.102/94

ONTARIO REGULATION 102/94

WASTE AUDITS AND WASTE REDUCTION WORK PLANS

Consolidation Period: From March 3, 1994 to the [e-Laws currency date](#).

No amendments.

This Regulation is made in English only.

**PART I
GENERAL**

1. In this Regulation,

“waste” means municipal waste as defined in Regulation 347 of the Revised Regulations of Ontario, 1990;

“waste audit” means a study relating to waste;

“waste reduction work plan” means a plan to reduce, reuse and recycle waste. O. Reg. 102/94, s. 1.

2. A waste audit required under this Regulation shall address,

(a) the amount, nature and composition of the waste;

(b) the manner by which the waste gets produced, including management decisions and policies that relate to the production of waste; and

(c) the way in which the waste is managed. O. Reg. 102/94, s. 2.

3. (1) A waste reduction work plan required under this Regulation shall include, to the extent that is reasonable, plans to reduce, reuse and recycle waste and shall set out who will implement each part of the plan, when each part will be implemented and what the expected results are.

(2) In developing the work plan, regard shall be had to the following principles:

1. Reduction is the first objective.

2. If reduction is not possible, then reuse is the next objective.

3. If reduction and reuse are not possible, then recycling is the final objective. O. Reg. 102/94, s. 3.

4. A person who is required under this Regulation to prepare a report of a waste audit or a waste reduction work plan shall prepare it on a form provided by the Ministry or in the same format as such a form. O. Reg. 102/94, s. 4.

5. (1) A person who is required under this Regulation to prepare a report of a waste audit or a waste reduction work plan shall retain a copy of the report or plan for at least five years after it was prepared.

(2) A person who is required under this Regulation to prepare a report of a waste audit or a waste reduction work plan shall submit to the Director, on request, the required report or plan, within seven days of the Director requesting them. O. Reg. 102/94, s. 5.

6. (1) A person who becomes subject to an obligation under this Regulation to prepare a report of a waste audit or a waste reduction work plan shall do so within six months of becoming subject to the obligation.

(2) This section does not apply with respect to updated reports or plans.

(3) This section does not apply with respect to obligations of a builder under Part IV or a demolisher under Part V. O. Reg. 102/94, s. 6.

7. (1) A new owner or operator to whom this Regulation applies is not required to conduct a new waste audit or prepare a new waste reduction work plan if an audit or work plan was conducted or prepared by a previous owner or operator and the new owner or operator updates the audit and work plan as required under this Regulation.

(2) This section does not apply with respect to a builder under Part IV or a demolisher under Part V. O. Reg. 102/94, s. 7.

8. (1) A person who has an obligation to conduct a waste audit and prepare a report under Part II, III, VI, VII, VIII, IX, X or XI in respect of more than one retail shopping establishment, retail shopping complex, building, restaurant, hotel or motel, hospital, location or campus of an educational institution, or site of a manufacturing establishment, may conduct a single

50. The waste reduction work plan shall include measures for communicating the plan to the operator's employees who work at the hospital and, as a minimum, those measures shall require,

- (a) that the plan or a summary be posted in places where most employees will see it; and
- (b) if a summary is posted, that any employee who requests to look at the plan be allowed to do so. O. Reg. 102/94, s. 50.

PART X
EDUCATIONAL INSTITUTIONS

51. (1) This Part applies to the operator of an educational institution in respect of a location or campus of the institution if, at the location or campus, at any time during the calendar year, more than 350 persons are enrolled.

(2) This Part continues to apply in respect of a location or campus for the two calendar years following the last year in which more than 350 persons were enrolled at the location or campus. O. Reg. 102/94, s. 51.

52. (1) The operator shall conduct a waste audit covering the waste generated by the operation of the institution at the location or campus. The audit shall also address the extent to which materials or products used consist of recycled or reused materials or products.

(2) After conducting the waste audit, the operator shall prepare a written report of the audit.

(3) In every year following the initial waste audit, the operator shall update the audit and prepare an updated written report. O. Reg. 102/94, s. 52.

53. (1) The operator shall prepare a written waste reduction work plan, based on the waste audit, to reduce, reuse and recycle waste generated by the operation of the institution at the location or campus.

(2) In every year following the preparation of the initial waste reduction work plan, the operator shall prepare an updated written plan. O. Reg. 102/94, s. 53.

54. The operator shall implement the waste reduction work plan as updated. O. Reg. 102/94, s. 54.

55. The waste reduction work plan shall include measures for communicating the plan to the operator's employees who work at the location or campus and, as a minimum, those measures shall require,

- (a) that the plan or a summary be posted in places where most employees will see it; and
- (b) if a summary is posted, that any employee who requests to look at the plan be allowed to do so. O. Reg. 102/94, s. 55.

PART XI
LARGE MANUFACTURING ESTABLISHMENTS

56. (1) This Part applies to the owner or operator of a site that is a manufacturing establishment.

(2) This Part does not apply to an owner of a site in a particular calendar year if,

- (a) during the two preceding calendar years there was no calendar month in which the hours worked by the persons employed at the site exceeded 16,000 hours; and
- (b) the owner is able to demonstrate this fact, within seven days of a request from the Director, through evidence satisfactory to the Director.

(3) Copies of the records related to hours of employment maintained under section 11 of the *Employment Standards Act* shall be deemed to be sufficient evidence of hours worked at a site if the copies are certified by the owner or the owner's representative as to the accuracy of the records.

(4) In this Part,

"owner" includes the operator of a manufacturing establishment but does not include a landlord;

"site" means one property and includes nearby properties owned or leased by the same person where passage from one property to another involves crossing, but not travelling along, a public highway. O. Reg. 102/94, s. 56.

57. (1) The owner shall conduct a waste audit covering the waste generated by the operation of the establishment at the site. The audit shall also address the extent to which materials or products used or sold consist of recycled or reused materials or products.

(2) After conducting the waste audit, the owner shall prepare a written report of the audit.

(3) In every year following the initial waste audit, the owner shall update the audit and prepare an updated written report. O. Reg. 102/94, s. 57.

58. (1) The owner shall prepare a written waste reduction work plan, based on the waste audit, to reduce, reuse and recycle waste generated by the operation of the establishment.

(2) In every year following the preparation of the initial waste reduction work plan, the owner shall prepare an updated written plan. O. Reg. 102/94, s. 58.

**Environmental Protection Act
Loi sur la protection de l'environnement**

Partial copy of
O.Reg.103/94

ONTARIO REGULATION 103/94

**INDUSTRIAL, COMMERCIAL AND INSTITUTIONAL SOURCE SEPARATION
PROGRAMS**

Consolidation Period: From March 3, 1994 to the [e-Laws currency date](#).

No amendments.

This Regulation is made in English only.

SOURCE SEPARATION PROGRAMS

1. In this Regulation,

“Northern Ontario” means the territorial districts of Algoma, Cochrane, Kenora, Manitoulin, Nipissing, Parry Sound, Rainy River, Sudbury, Thunder Bay and Timiskaming and The Regional Municipality of Sudbury;

“source separation program” means a program to facilitate the source separation of waste for reuse or recycling. O. Reg. 103/94, s. 1.

2. (1) A source separation program required under this Regulation must include,

- (a) the provision of facilities for the collection, handling and storage of source separated wastes described in subsection (2) adequate for the quantities of anticipated wastes;
- (b) measures to ensure that the source separated wastes that are collected are removed;
- (c) the provision of information to users and potential users of the program,
 - (i) describing the performance of the program,
 - (ii) encouraging effective source separation of waste and full use of the program;
- (d) reasonable efforts to ensure that full use is made of the program and that the separated waste is reused or recycled.

(2) The source separated waste referred to in clause (1) (a) is waste that has been source separated from other kinds of waste and that consists solely of waste from one or more of the following categories:

- 1. The categories of waste set out in the part of the Schedule applicable to the person required to implement the source separation program.
- 2. The categories of waste set out in Schedule 1, 2 or 3 of Ontario Regulation 101/94 that the source separation program accepts.

(3) A source separation program required under this Regulation must provide for all the categories of waste set out in the part of the Schedule applicable to the person required to implement the program except for categories of waste that cannot be reasonably anticipated. O. Reg. 103/94, s. 2.

3. Source separation programs required by this Regulation are exempt from sections 27, 40 and 41 of the Act. O. Reg. 103/94, s. 3.

4. (1) A source separation program that is not required by this Regulation is exempt from sections 27, 40 and 41 of the Act if,

- (a) the program is restricted to waste generated at a single site;
- (b) the program only accepts waste that has been source separated from other kinds of waste and that consists solely of waste from one or more of the categories of waste set out in Schedule 1, 2 or 3 of Ontario Regulation 101/94;
- (c) the program includes everything set out in subsection 2 (1).

(2) For the purposes of clause (1) (c), the reference to source separated waste in clause 2 (1) (a) shall be deemed to be a reference to the waste described in clause (1) (b). O. Reg. 103/94, s. 4.

RETAIL SHOPPING ESTABLISHMENTS

5. (1) This section applies to the owner of an establishment that sells goods or services at retail to persons who come to the establishment if,

- (a) the establishment occupies premises with a floor area of at least 10,000 square metres;
or
- (b) the establishment occupies premises in a complex in respect of which section 6 applies and the owner of the establishment is solely responsible for the establishment's waste management.

(2) The owner shall implement a source separation program for the wastes generated by the establishment or shall ensure that such a program is implemented.

(3) This section applies only in respect of an establishment located within a local municipality that has a population of at least 5,000.

(4) This section takes effect with respect to an establishment in Northern Ontario on July 1, 1996. O. Reg. 103/94, s. 5.

RETAIL SHOPPING COMPLEXES

6. (1) This section applies to the owner of a complex that contains premises occupied by establishments that sell goods or services at retail to persons who come to the establishments if the total floor area of such premises is at least 10,000 square metres.

(2) The owner shall implement a source separation program for the wastes generated at the complex or shall ensure that such a program is implemented.

(3) The source separation program need not provide for the waste generated in the operation of an establishment in the complex if section 5 applies to the owner of the establishment.

(4) This section applies only in respect of a complex located in a local municipality that has a population of at least 5,000.

(5) This section takes effect with respect to a complex in Northern Ontario on July 1, 1996. O. Reg. 103/94, s. 6.

- (c) a building in respect of which section 9 applies;
- (d) a hotel or motel in respect of which section 12 applies;
- (e) a hospital in respect of which section 13 applies;
- (f) a location or campus of an educational institution in respect of which section 14 applies.

- (4) This section does not apply to an owner of a restaurant in a particular calendar year if,
- (a) during the two preceding calendar years there was no year in which the gross sales for all restaurants operated by the owner in Ontario equalled or exceeded \$3,000,000; and
 - (b) the owner is able to demonstrate this fact, within seven days of a request from the Director, through evidence satisfactory to the Director.

(5) Copies of the records related to purchase and sale maintained under subsection 5 (1) of Regulation 1013 of the Revised Regulations of Ontario, 1990 shall be deemed to be sufficient evidence of the gross sales of a restaurant if the copies are certified by the owner or the owner's representative as to the accuracy of the records.

(6) This section applies only in respect of a restaurant located within a local municipality that has a population of at least 5,000.

(7) This section takes effect with respect to a restaurant in Northern Ontario on July 1, 1996. O. Reg. 103/94, s. 11.

HOTELS AND MOTELS

12. (1) The owner of a hotel or motel that has more than seventy-five units shall implement a source separation program for the wastes generated by the operation of the hotel or motel or shall ensure that such a program is implemented.

(2) This section applies only in respect of a hotel or motel located within a local municipality that has a population of at least 5,000.

(3) This section takes effect with respect to a hotel or motel in Northern Ontario on July 1, 1996. O. Reg. 103/94, s. 12.

HOSPITALS

13. (1) The operator of a public hospital classified as a class A, B or F hospital in Regulation 964 of the Revised Regulations of Ontario, 1990 shall implement a source separation program for the wastes generated by the operation of the hospital or shall ensure that such a program is implemented.

(2) This section applies only in respect of a public hospital located within a local municipality that has a population of at least 5,000.

(3) This section takes effect with respect to a public hospital in Northern Ontario on July 1, 1996. O.Reg. 103/94, s. 13.

EDUCATIONAL INSTITUTIONS

14. (1) This section applies to the operator of an educational institution in respect of a location or campus of the institution if, at the location or campus, at any time during the

calendar year, more than 350 persons are enrolled.

(2) The operator shall implement a source separation program for the waste generated by the operation of the institution at the location or campus or shall ensure that such a program is implemented.

(3) This section continues to apply in respect of a location or campus for the two calendar years following the last year in which more than 350 persons were enrolled at the location or campus.

(4) This section applies only in respect of a location or campus located within a local municipality that has a population of at least 5,000.

(5) This section takes effect with respect to a location or campus in Northern Ontario on July 1, 1996. O. Reg. 103/94, s. 14.

LARGE MANUFACTURING ESTABLISHMENTS

15. (1) This section applies to the owner or operator of a site that is a manufacturing establishment.

(2) The owner shall implement a source separation program for the waste generated by the operation of the establishment at the site or shall ensure that such a program is implemented.

(3) This section does not apply to an owner of a site in a particular calendar year if,

(a) during the two preceding calendar years there was no calendar month in which the hours worked by the persons employed at the site exceeded 16,000 hours; and

(b) the owner is able to demonstrate this fact, within seven days of a request from the Director, through evidence satisfactory to the Director.

(4) Copies of the records related to hours of employment maintained under section 11 of the *Employment Standards Act* shall be deemed to be sufficient evidence of hours worked at a site if the copies are certified by the owner or the owner's representative as to the accuracy of the records.

(5) In this section,

“owner” includes the operator of a manufacturing establishment but does not include a landlord;

“site” means one property and includes nearby properties owned or leased by the same person where passage from one property to another involves crossing, but not travelling along, a public highway. O. Reg. 103/94, s. 15.

TRANSITION

16. Except as otherwise provided, a person who, upon the coming into force of this Regulation, or at any time within twelve months after the coming into force of this Regulation, becomes subject to an obligation with respect to the implementation of a source separation program shall fulfil the obligation within twelve months after the coming into force of this Regulation. O.Reg. 103/94, s. 16.

SCHEDULE

WASTES TO BE PROVIDED FOR IN SOURCE SEPARATION PROGRAMS

2. Cardboard (corrugated).
3. Fine paper.
4. Glass bottles and jars for food or beverages.
5. Newsprint.
6. Polyethylene terephthalate bottles for food or beverages (including bottles made primarily of polyethylene terephthalate).
7. Steel food or beverage cans (including cans made primarily of steel).

**PART IX
HOSPITALS**

(referred to in section 13)

1. Aluminum food or beverage cans (including cans made primarily of aluminum).
2. Cardboard (corrugated).
3. Fine paper.
4. Glass bottles and jars for food or beverages.
5. Newsprint.
6. Steel food or beverage cans (including cans made primarily of steel).

**PART X
EDUCATIONAL INSTITUTIONS**

(referred to in section 14)

1. Aluminum food or beverage cans (including cans made primarily of aluminum).
2. Cardboard (corrugated).
3. Fine paper.
4. Glass bottles and jars for food or beverages.
5. Newsprint.
6. Steel food or beverage cans (including cans made primarily of steel).

**PART XI
LARGE MANUFACTURING ESTABLISHMENTS**

(referred to in section 15)

1. Aluminum.
2. Cardboard (corrugated).
3. Fine paper.
4. Glass.
5. Newsprint.

U of T Audit Schedule September 28 – October 9, 2020

24hr. samples October 2 – 9, 2020

Oct. 2

Fasken Martineau Building, 655 Spadina - **No sample!**
Robarts, 130 St. George St.
Sussex Court, 21 Sussex Ave. - **No sample**

Oct. 5

Whitney Hall, 85 St. George St.
Warren Stevens Building, 55 Harbord St.
Walberg Building, 184 – 200 College St

Oct. 6

Edward Johnson Building, 80 Queen's Park
Sanford Fleming Building, 10 King's College Rd.
Robarts, 130 St. George St. – 2nd round

Oct. 7

Whitney Hall, 85 St. George St – 2nd round
CCBR, 160 College St.
Astronomy, 50 St. George St.

Oct. 8

Koffler Student Centre, 214 College St.
Flavelle House, 78 Queen's Park
Lash Miller Chemical Labs, 80 St. George St.

Oct. 9

CCBR, 160 College St., 2nd round
Fields Institute, 222 College St.
Simcoe Hall, 27 King's College Circle

Tags

Green – cafeterias

Red – washrooms

Blue – offices

Yellow – labs

Black – public areas / lobbies

White – misc.

Compactors September 28 – October 1

Sept. 28

Architecture, 1 Spadina Crescent
Sanford Fleming, 10 King's College Rd.

Sept. 29

New College, 21 Classic Ave.
Goldring Centre, 100 Devonshire Pl.

Sept. 30

Health Sciences, 155 College
CCBR, 160 St. George

Oct. 1

OISE, 252 Bloor St. W.
Rotman, 95 St. George - ?

Miscellaneous exterior waste warriors on campus

Willcocks street b/w Huron & St. George, front of Medical Sciences, front entrance of CCBR,
Bancroft Ave., Earth Sciences entrance on Huron, Russel St & St. George



CALIBRATION CERTIFICATE

DATE: May 11 2018

SR No.: 47338

CUSTOMER:

Waste Reduction Group
801 King St W Unit PH #20
Toronto ON M5V 3C9

REMARKS

This is to certify that the following scale has been tested and calibrated in relation to the Standards maintained by **CANADIAN SCALE COMPANY LIMITED**, with test weights traceable to the Legal Metrology Laboratories of, Industry Canada and National Research Council, Canada.

Anyload EWH-150
Capacity 150 kg
S/N -20161108049

Technician's Signature



CANADIAN SCALE COMPANY LIMITED
305 Horner Avenue, Toronto, ON M8W 1Z4
1-800-461-0634 www.canscale.com

UofT Waste Audit 2020 – Compactor Summary

September 28, 2020: Load #1 – Architecture, 1 Spadina Crescent

Amidst the garbage the following items were found:

- Tissue/Toweling
- Large HDPE & PP Pails & Lids
- Cardboard
- Avoidable Food Waste Dried Food
- Computer Components (Laptop)



Tissue/Toweling



Large HDPE & PP Pails & Lids



Cardboard



Avoidable Food Waste Dried Food

UofT Waste Audit 2020 – Compactor Summary



Computer Components (Laptop)

UofT Waste Audit 2020 – Compactor Summary

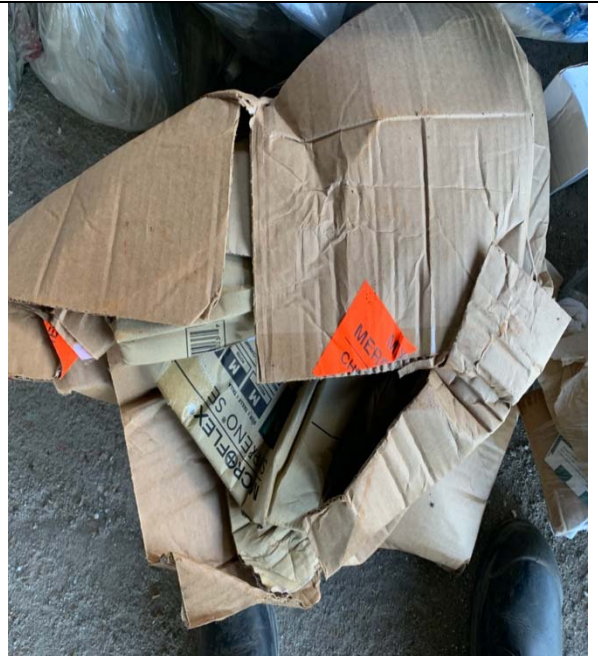
September 28, 2020: Load #2 – Sanford Fleming, 10 King’s College Rd.

Amidst the garbage the following items were found:

- Mixed Plastic Bottles (Other Plastic Bottles, Jars & Jugs)
- Cardboard
- Avoidable Food Waste Leftover Other
- Hot Beverage Paper Cups
- Avoidable Food Waste Dried Food
- Large HDPE & PP Pails & Lids
- Tissue/Toweling
- Mixed Recyclables (PET Beverage Bottles and Aluminum Food & Beverage Cans)



Mixed Plastic Bottles (Other Plastic Bottles, Jars & Jugs)



Cardboard

UofT Waste Audit 2020 – Compactor Summary



Avoidable Food Waste Leftover Other



Hot Beverage Paper Cups



Avoidable Food Waste Dried Food



Large HDPE & PP Pails & Lids

UofT Waste Audit 2020 – Compactor Summary



Tissue/Toweling



Mixed Recyclables (PET Beverage Bottles and Aluminum Food & Beverage Cans)

UofT Fall 2020 Compactor Study

September 30, 2020: Load #1 - 155 College

Amidst the garbage the following items were found:

- Large HDPE & PP Pails and Lids
- Cardboard
- Hot Beverage Paper Cups
- Mixed bags of containing various plastics, aluminum cans
- White and black styrofoam



UofT Fall 2020 Compactor Study

September 30, 2020: Load #2 - 160 College

Amidst the garbage, the following items were found:

- Cardboard
- Bags of mixed recycling
- Small and large bags containing (if not fully, a majority) tissue
- Waste containing bottles and/or paper cups



Appendix B

Waste Audit Data

Waste Audit Report

University of Toronto, St George Campus
 SDK Project P1141

Table B1: Waste Audit Sample Summary

Site	Building Name	Address	Date	GARBAGE SAMPLE COLLECTED (in kg)										Notes	
				Blue	Yellow	Black	Green	Red	White	Unlabeled			TOTAL		
				Offices	Labs	Public Areas	Cafeteria	Washrooms	Miscel.	Unlabeled	Classrooms	Common Rooms	Residential		SAMPLE
1	Fasken Martineau Building	655 Spadina Ave.	Oct. 2/20	--	--	--	--	--	--	--	--	--	--	--	No Sample
2	Robarts Library	130 St. George St.	Oct. 2/20	7.47	0.00	59.49	21.82	0.16	4.14	0.00	--	--	--	93.08	
3	Sussex Court	21 Sussex Ave.	Oct. 2/20	--	--	--	--	--	--	--	--	--	--	--	No Sample
4	Whitney Hall	85 St. George St.	Oct. 5/20	8.04	0.00	97.30	0.00	4.37	0.00	0.00	--	--	--	109.71	
5	Warren Stevens Building	55 Harbord St.	Oct. 5/20	2.10	2.08	10.44	0.00	0.08	0.00	0.00	--	--	--	14.70	
6	Wallberg Building	184-200 College St.	Oct. 5/20	6.54	13.37	10.21	0.00	0.34	0.00	0.00	--	--	--	30.46	
7	Edward Johnson Building	80 Queen's Park	Oct. 6/20	0.26	0.00	23.32	0.00	0.16	0.00	0.00	--	--	--	23.74	
8	Sanfod Fleming Building	5 King's College Rd.	Oct. 6/20	9.19	12.97	16.88	5.93	0.32	0.00	0.00	--	--	--	45.29	
9	Robarts Library (Day 2)	130 St. George St.	Oct. 6/20	12.93	0.00	19.52	6.00	0.39	0.00	0.00	--	--	--	38.84	
10	Whitney Hall (Day 2)	85 St. George St.	Oct. 7/20	0.00	0.00	47.06	0.00	1.45	0.00	0.00	--	--	--	48.51	
11	CCBR	160 College St	Oct. 7/20	0.00	66.98	3.25	0.00	0.78	5.23	0.00	--	--	--	76.24	
12	Astronomy	50 St. George St.	Oct. 7/20	0.00	0.00	0.00	0.00	0.00	5.83	0.00	--	--	--	5.83	
13	Koffler Student Centre	214 College St.	Oct. 8/20	3.19	0.00	15.13	4.26	0.24	0.00	0.00	--	--	--	22.82	
14	Flavelle House	74 Queen's Park	Oct. 8/20	--	--	--	--	--	--	--	--	--	--	--	No Sample
15	Lash Miller Chemical Labs	80 St. George St.	Oct. 8/20	6.47	7.37	10.65	4.18	0.64	8.07	0.00	--	--	--	37.38	
16	CCBR (Day 2)	160 College St	Oct. 9/20	0.00	104.97	14.98	0.00	0.00	0.00	0.00	--	--	--	119.95	
17	Fields Institute	222 College St.	Oct. 9/20	--	--	--	--	--	--	--	--	--	--	--	No Sample
18	Simcoe Hall	27 King's College Circle	Oct. 9/20	2.74	0.00	18.83	0.00	0.72	0.00	0.00	--	--	--	22.29	
TOTAL				58.93	207.74	347.06	42.19	9.65	23.27	0.00	0.00	0.00	0.00	688.84	

Table B2: GARBAGE Waste Audit Sample Summary

Audit Location	Audited Building Name	Audit Date	Total Sample kg	Total Sample %
1	Fasken Martineau Building	Oct. 2/20	0.00	0.0%
2	Robarts Library	Oct. 2/20	93.08	13.5%
3	Sossex Court	Oct. 2/20	0.00	0.0%
4	Whitney Hall	Oct. 2/20	109.71	15.9%
5	Warren Stevens Building	Oct. 2/20	14.70	2.1%
6	Wallberg Building	Oct. 2/20	30.46	4.4%
7	Edward Johnson Building	Oct. 2/20	23.74	3.4%
8	Sanford Fleming Building	Oct. 2/20	45.29	6.6%
9	Robarts Library (Day 2)	Oct. 2/20	38.84	5.6%
10	Whitney Hall (Day 2)	Oct. 2/20	48.51	7.0%
11	CCBR	Oct. 2/20	76.24	11.1%
12	Astronomy	Oct. 2/20	5.83	0.8%
13	Koffler Student Centre	Oct. 2/20	22.82	3.3%
14	Flavelle House	Oct. 2/20	0.00	0.0%
15	Lash Miller Chemical Labs	Oct. 2/20	37.38	5.4%
16	CCBR (Day 2)	Oct. 2/20	119.95	17.4%
17	Fields Institute	Oct. 2/20	0.00	0.0%
18	Simcoe Hall	Oct. 2/20	22.29	3.2%
Total Sample:			688.84	100.0%

Table B3: Overall GARBAGE Composition Summary

Area of Collection:	Office & Admin	Labs	Public Areas	Cafeteria	Washrooms	Miscel.	Total		
Total Weight of Sample (in kg):	58.93	207.74	347.06	42.19	9.65	23.27	688.84		
Total Percent of Sample (in %):	8.6%	30.2%	50.4%	6.1%	1.4%	3.4%	100.0%		
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	
PET (#1)	3.80	6.6%	0.95	0.5%	13.47	3.9%	0.22	0.5%	7.8%
HDPE (#2)	0.03	0.1%	0.38	0.2%	0.38	0.1%	0.00	0.0%	0.79
PP (#5)	1.59	2.7%	2.06	1.0%	5.79	1.7%	0.06	0.1%	9.80
PS (#6)	0.87	1.5%	0.24	0.1%	8.69	2.5%	1.44	3.4%	11.24
Glass	0.16	0.3%	0.14	0.1%	15.39	4.4%	0.54	1.3%	16.89
Aluminum	0.29	0.5%	1.59	0.8%	5.71	1.6%	0.71	1.7%	8.31
Steel	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
Gable Top	1.04	1.8%	0.00	0.0%	0.85	0.2%	0.00	0.0%	2.09
Aseptic	0.32	0.5%	0.05	0.0%	0.97	0.3%	0.15	0.4%	1.55
Fine Papers	5.61	9.5%	6.68	3.2%	6.77	2.0%	0.11	0.3%	19.87
Newsprint	0.26	0.4%	4.81	2.3%	0.50	0.1%	0.00	0.0%	5.57
Boxboard	7.56	12.8%	28.58	13.8%	21.15	6.1%	5.64	13.4%	62.93
Other Paper Fibres	8.84	15.0%	10.61	5.1%	9.26	2.7%	0.24	0.6%	28.95
Corrugated Cardboard	0.08	0.1%	0.31	0.1%	0.40	0.1%	0.00	0.0%	0.79
Compostable Fibres	5.74	9.7%	78.34	37.7%	47.56	13.7%	4.41	10.5%	140.38
Organic Food Waste	7.03	11.9%	8.82	4.2%	89.37	25.8%	9.86	23.4%	120.86
Compostable Dishware	1.98	3.4%	0.00	0.0%	5.13	1.5%	5.48	13.0%	12.59
Other Fiber Drink Cups	0.55	0.9%	0.01	0.0%	0.08	0.0%	0.00	0.0%	0.73
Coffee Cups	0.68	1.2%	0.84	0.4%	10.28	3.0%	2.57	6.1%	14.74
Coffee Pods	0.75	1.3%	0.00	0.0%	2.08	0.6%	0.31	0.7%	3.14
LDPE Plastic Films	1.66	2.8%	0.00	0.0%	5.90	1.7%	2.69	6.4%	10.25
Styrofoam	2.17	3.7%	8.91	4.3%	13.69	3.9%	1.67	4.0%	26.46
Mixed Plastics	0.00	0.0%	3.41	1.6%	0.08	0.0%	0.00	0.0%	3.49
Lab Plastics	0.00	0.0%	6.39	3.1%	0.00	0.0%	0.00	0.0%	6.39
Lab Glass	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
Scrap Metals	0.00	0.0%	0.00	0.0%	2.34	0.7%	1.10	2.6%	4.90
Scrap Woods	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
Electronic Wastes	0.00	0.0%	0.00	0.0%	0.20	0.1%	0.00	0.0%	0.35
Bulbs & Ballasts	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.04	0.1%	0.34
Batteries	0.08	0.1%	0.00	0.0%	0.75	0.2%	0.02	0.0%	1.45
Printer Toners	1.25	2.1%	3.52	1.7%	0.80	0.2%	0.00	0.0%	5.57
Textiles	0.00	0.0%	3.30	1.6%	0.00	0.0%	0.37	0.8%	3.98
Shoes/Boots	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
Office Supplies (Pens, Markers, etc)	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00	0.0%	0.00
Take-out Food Packaging	0.00	0.0%	0.00	0.0%	19.61	5.7%	0.45	1.1%	20.06
Food/Snack Wrappers	0.21	0.4%	0.87	0.4%	3.99	1.1%	0.34	0.8%	5.63
PPE	0.26	0.4%	11.07	5.3%	1.86	0.5%	0.00	0.0%	15.02
Latex/Nitrile Gloves	1.86	3.2%	0.58	0.3%	1.23	0.4%	0.11	0.3%	3.78
Single Use Plastics	0.32	0.5%	27.90	13.4%	24.10	6.9%	0.85	2.0%	55.31
Other / Non-recyclable	3.84	6.5%	3.38	1.6%	28.68	8.3%	3.18	7.5%	43.54
QAQC Check	58.93	100.0%	207.74	100.0%	347.06	100.0%	42.19	100.0%	688.84
Total Mixed Containers	8.20	13.9%	5.41	2.6%	51.25	14.8%	3.12	7.4%	70.97
Total Mixed Fibres	22.27	37.8%	44.68	21.5%	37.68	10.9%	5.99	14.2%	114.68

Note: Highlighted cells are those summarized in Sections 3.2.1 to 3.2.6 of the report.

Table B4: Garbage to Landfill Composition (Ranked)

Composition	Percent	Tonnes	Recycle?	Assumed Capture Amount
Total Weight of waste shipped off-site: 1906.11				
Compostable Fibres	20.4%	388.45	Yes	233.1
Organic Food Waste	17.5%	334.44	Yes	200.7
Total Mixed Fibres	16.6%	317.33	Yes	190.4
Total Mixed Containers	10.3%	196.38	Yes	117.8
Single Use Plastics	8.0%	153.05	No	5.2
Other / Non-recyclable	6.3%	120.48	No	0.0
Styrofoam	3.8%	73.22	Yes	43.9
Take-out Food Packaging	2.9%	55.51	No	0.0
PPE	2.2%	41.56	No	0.0
Coffee Cups	2.1%	40.79	Yes	24.5
Compostable Dishware	1.8%	34.84	Yes	20.9
LDPE Plastic Films	1.5%	28.36	Yes	17.0
Scrap Metals	1.2%	23.08	Yes	13.8
Lab Plastics	0.9%	17.68	Yes	10.6
Food/Snack Wrappers	0.8%	15.58	No	0.0
Printer Toners	0.8%	15.41	Yes	9.2
Textiles	0.6%	11.01	Yes	6.6
Latex/Nitrile Gloves	0.5%	10.46	No	0.0
Mixed Plastics	0.5%	9.66	Yes	5.8
Coffee Pods	0.5%	8.69	Yes	5.2
Batteries	0.2%	4.01	Yes	2.4
Corrugated Cardboard	0.1%	2.19	Yes	1.3
Other Fiber Drink Cups	0.1%	2.02	No	0.0
Electronic Wastes	0.1%	0.97	Yes	0.6
Bulbs & Ballasts	0.0%	0.34	Yes	0.6
Total	100.0%	1906.11		
Note 1: Assume 60% capture rate				
Recycling/Reuse Potential 904.2				

Table B5: Mixed Container Summary

Material	Garbage Sample	Percent	Disposed	Recycled
kg % MT MT				
PET (#1 Plastic)	19.32	27.2%	53.46	68.88
HDPE (#2 Plastic)	0.79	1.1%	2.19	2.82
PP (#5 Plastic)	9.80	13.8%	27.12	34.94
PS (#6 Plastic)	12.02	16.9%	31.26	42.85
Glass	16.89	23.8%	46.74	60.21
Aluminum	8.51	12.0%	23.55	30.34
Steel	0.00	0.0%	0.00	0.00
Gable Top	2.09	2.9%	5.78	7.45
Aseptic	1.55	2.2%	4.29	5.53
Total	70.97	100.0%	196.38	253.01

Table B6: Mixed Paper Summary

Material	Garbage Sample	Percent	Disposed	Recycled
kg % MT MT				
Fine Papers	13.69	11.9%	37.88	39.96
Newsprint	5.57	4.9%	15.41	16.26
Boxboard	65.11	56.8%	180.17	190.04
Other Fibres	30.31	26.4%	83.87	88.47
Total	114.68	100.0%	317.33	334.72

Table B7: Mandatory vs Other Recyclable vs Non-Recyclable

Waste Generating Area	Office & Admin	Labs	Public Areas	Cafeteria	Washrooms	Miscellaneous	Total							
O Reg 103 - Mandatory Recyclable	6.40	10.9%	7.53	3.6%	28.77	8.3%	1.36	3.2%	1.16	12.0%	0.23	1.0%	45.45	6.6%
Other Recyclable	45.49	77.2%	153.10	73.7%	238.74	68.8%	35.90	85.1%	5.36	55.5%	16.75	72.0%	495.34	71.9%
Non-Recyclable	7.04	11.9%	47.11	22.7%	79.55	22.9%	4.93	11.7%	3.13	32.4%	6.29	27.0%	148.05	21.5%
QAQC Check	58.93	100.0%	207.74	100.0%	347.06	100.0%	42.19	100.0%	9.65	100.0%	23.27	100.0%	688.84	100.0%

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Table B8: Office/Admin Garbage Summary

Material category	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
	Fasken Martineau Building	Robarts Library	Sussex Court	Whitney Hall	Warren Stevens Building	Wallberg Building	Edward Johnson Building	Sanfod Fleming Building	Robarts Library (Day 2)	Whitney Hall (Day 2)	CCBR	Astronomy	Koffler Student Centre	Flavelle House	Lash Miller Chemical Labs	CCBR (Day 2)	Fields Institute	Simcoe Hall	Overall		
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%
Total	0.00	7.47	0.00	8.04	2.10	6.54	0.26	9.19	12.93	0.00	0.00	0.00	3.19	0.00	6.47	0.00	0.00	2.74	58.93	100.0%	
Percentage	0.0%	12.7%	0.0%	13.6%	3.6%	11.1%	0.4%	15.6%	21.9%	0.0%	0.0%	0.0%	5.4%	0.0%	11.0%	0.0%	0.0%	4.6%	1.00	TRUE	

Table B9: Labs Garbage Summary

Material category	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
	Fasken Martineau Building	Robarts Library	Sussex Court	Whitney Hall	Warren Stevens Building	Wallberg Building	Edward Johnson Building	Sanfod Fleming Building	Robarts Library (Day 2)	Whitney Hall (Day 2)	CCBR	Astronomy	Koffler Student Centre	Flavelle House	Lash Miller Chemical Labs	CCBR (Day 2)	Fields Institute	Simcoe Hall	Overall		
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%
Total	0.00	0.00	0.00	0.00	2.08	13.37	0.00	12.97	0.00	0.00	66.98	0.00	0.00	0.00	7.37	104.97	0.00	0.00	207.74	100.0%	
Percentage	0.0%	0.0%	0.0%	0.0%	1.0%	6.4%	0.0%	6.2%	0.0%	0.0%	32.2%	0.0%	0.0%	0.0%	3.5%	50.5%	0.0%	0.0%	1.00	TRUE	

Table B10: Public Areas Garbage Summary

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
Material category	Fasken Martineau Building	Robarts Library	Sussex Court	Whitney Hall	Warren Stevens Building	Wallberg Building	Edward Johnson Building	Sanfod Fleming Building	Robarts Library (Day 2)	Whitney Hall (Day 2)	CCBR	Astronomy	Koffler Student Centre	Flavelle House	Lash Miller Chemical Labs	CCBR (Day 2)	Fields Institute	Simcoe Hall	Overall		
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%
Total	0.00	59.49	0.00	97.30	10.44	10.21	23.32	16.88	19.52	47.06	3.25	0.00	15.13	0.00	10.65	14.98	0.00	18.83	347.06	100.0%	
Percentage	0.0%	17.1%	0.0%	28.0%	3.0%	2.9%	6.7%	4.9%	5.6%	13.6%	0.9%	0.0%	4.4%	0.0%	3.1%	4.3%	0.0%	5.4%	1.00	TRUE	

Table B11: Cafeteria Garbage Summary

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
Material category	Fasken Martineau Building	Robarts Library	Sussex Court	Whitney Hall	Warren Stevens Building	Wallberg Building	Edward Johnson Building	Sanfod Fleming Building	Robarts Library (Day 2)	Whitney Hall (Day 2)	CCBR	Astronomy	Koffler Student Centre	Flavelle House	Lash Miller Chemical Labs	CCBR (Day 2)	Fields Institute	Simcoe Hall	Overall		
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%
Total	0.00	21.82	0.00	0.00	0.00	0.00	0.00	5.93	6.00	0.00	0.00	0.00	4.26	0.00	4.18	0.00	0.00	0.00	0.00	42.19	100.0%
Percentage	0.0%	51.7%	0.0%	0.0%	0.0%	0.0%	0.0%	14.1%	14.2%	0.0%	0.0%	0.0%	10.1%	0.0%	9.9%	0.0%	0.0%	0.0%	1.00	TRUE	

Table B12: Washrooms Garbage Summary

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
Material category	Fasken Martineau Building	Robarts Library	Sussex Court	Whitney Hall	Warren Stevens Building	Wallberg Building	Edward Johnson Building	Sanfod Fleming Building	Robarts Library (Day 2)	Whitney Hall (Day 2)	CCBR	Astronomy	Koffler Student Centre	Flavelle House	Lash Miller Chemical Labs	CCBR (Day 2)	Fields Institute	Simcoe Hall	Overall		
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%
Total	0.00	0.16	0.00	4.37	0.08	0.34	0.16	0.32	0.39	1.45	0.78	0.00	0.24	0.00	0.64	0.00	0.00	0.72	9.65	100.0%	
Percentage	0.0%	1.7%	0.0%	45.3%	0.8%	3.5%	1.7%	3.3%	4.0%	15.0%	8.1%	0.0%	2.5%	0.0%	6.6%	0.0%	0.0%	7.5%	1.00	TRUE	

Table B13: Miscellaneous Garbage Summary

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18			
Material category	Fasken Martineau Building	Robarts Library	Sussex Court	Whitney Hall	Warren Stevens Building	Wallberg Building	Edward Johnson Building	Sanfod Fleming Building	Robarts Library (Day 2)	Whitney Hall (Day 2)	CCBR	Astronomy	Koffler Student Centre	Flavelle House	Lash Miller Chemical Labs	CCBR (Day 2)	Fields Institute	Simcoe Hall	Overall		
	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	kg	%
Total	0.00	4.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.23	5.83	0.00	0.00	8.07	0.00	0.00	0.00	0.00	23.27	100.0%
Percentage	0.0%	17.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	22.5%	25.1%	0.0%	0.0%	34.7%	0.0%	0.0%	0.0%	0.00	1.00	TRUE

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Table B14: Annual Waste Management & Recycling Quantities

Waste Material	Recycled/ Reused, Disposed	Annual Quantities May '19 - Apr '20		
		kg	MT	%
Waste/Garbage	Disposed		1906.11	100.0%
Sub-Total			1906.11	
Mixed Papers	Recycled		329.17	10.1%
Paper Towels	Recycled		78.50	2.4%
Miscellaneous Paper	Recycled		5.55	0.2%
Cardboard	Recycled		237.99	7.3%
Confidential Papers	Recycled		123.48	3.8%
Scrap Wood	Recycled		169.21	5.2%
Scrap Metals	Recycled		75.89	2.3%
Asphalt	Recycled		0.00	0.0%
Stone, Pavers & Screening	Recycled		50.00	1.5%
Soil from Construction Projects	Recycled		46.00	1.4%
Concrete from Construction	Recycled		60.00	1.8%
Clean Fill	Recycled		10.00	0.3%
Batteries	Recycled		2.32	0.1%
Fluorescent Bulbs	Recycled		6.60	0.2%
Polystyrene	Recycled		6.00	0.2%
Aero. Misc. Pick Ups	Recycled		5.40	0.2%
89 Chestnut Mixed Containers	Recycled		192.00	5.9%
M. Hall Mixed Containers	Recycled		23.52	0.7%
Mixed Containers	Recycled		37.49	1.2%
Coffee Cups	Recycled		11.00	0.3%
Amber Bottles	Recycled		5.60	0.2%
Electronic Wastes	Recycled		52.27	1.6%
Mixed Plastics	Recycled		5.25	0.2%
Misc: tires, mattresses, rocks etc.	Recycled		4.16	0.1%
Lab Glass & Plastic	Recycled		33.95	1.0%
Recycling from Compactor Loads	Recycled			0.0%
Yard Wastes	Composted		104.61	3.2%
Animal Bedding	Composted		94.85	2.9%
Soil & Plant P/U	Composted		111.00	3.4%
Plant & Tree Use, Composting	Composted		0.00	0.0%
Grass & Wood Mulch	Composted		55.00	1.7%
Catch Basin Material	Composted		12.00	0.4%
Organics	Composted		724.77	22.3%
89 Chestnut Organics	Composted		382.44	11.8%
Swap Shop - Out, Including Pad	Reused		34.50	1.1%
In-Swap	Reused		12.00	0.4%
Campus Furniture Projects	Reused		3.06	0.1%
Wood Pallets	Reused		12.00	0.4%
LCBO/Beer Store Returns	Reused		13.47	0.4%
Reduction via Various Programs	Reduced		114.40	3.5%
Sub-Total			3245.44	
Total Generated			5151.55	100.0%
Total Recycled			1571.34	30.5%
Total Reused			75.03	1.5%
Total Reduced			114.40	2.2%
Total Composted			1484.66	28.8%
Total Disposed			1906.11	37.0%
Achieved Waste Diversion Rate				63.0%
Additional Recyclable Materials in Wastes Disposed to Landfill (MT)				904.47
Potential Waste Diversion Rate				80.6%

Notes:

Detailed records of annual weights provided by UofT. Most recent complete data available.

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Robarts Library 130 St. George St.
 Date: Oct. 2/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):	7.47				59.49		21.82		0.16		4.14				93.08	
Total Percent of Sample (in %):	8.0%		0.0%		63.9%		23.4%		0.2%		4.4%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)		0.0%			2.9	4.9%	0.09	0.4%		0.0%		0.0%			2.99	3.2%
HDPE (#2)		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
PP (#5)	0.61	8.2%			2.33	3.9%		0.0%	0.01	6.3%	0.06	1.4%			3.01	3.2%
PS (#6)	0.03	0.4%			3.2	5.4%	1.3	6.0%	0.02	12.5%	0.01	0.2%			4.56	4.9%
Glass		0.0%			3.13	5.3%		0.0%		0.0%		0.0%			3.13	3.4%
Aluminum		0.0%			2.06	3.5%	0.67	3.1%		0.0%		0.0%			2.73	2.9%
Steel		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Gable Top	0.03	0.4%				0.0%		0.0%		0.0%		0.0%			0.03	0.0%
Aseptic	0.04	0.5%			0.9	1.5%	0.09	0.4%		0.0%	0.04	1.0%			1.07	1.1%
Fine Papers	0.04	0.5%			4.47	7.5%	0.09	0.4%	0.06	37.5%		0.0%			4.66	5.0%
Newsprint		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Boxboard	0.45	6.0%			2.1	3.5%	5.17	23.7%		0.0%		0.0%			7.72	8.3%
Other Paper Fibres	0.45	6.0%			1.9	3.2%		0.0%		0.0%		0.0%			2.35	2.5%
Corrugated Cardboard		0.0%			0.4	0.7%		0.0%		0.0%		0.0%			0.40	0.4%
Compostable Fibres	1.95	26.1%			8.3	14.0%	1.35	6.2%		0.0%	1.16	28.0%			12.76	13.7%
Organic Food Waste	2.85	38.2%			13.2	22.2%	3.82	17.5%		0.0%	2.8	67.6%			22.67	24.4%
Compostable Dishware		0.0%				0.0%	4.62	21.2%		0.0%		0.0%			4.62	5.0%
Other Fiber Drink Cups		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Coffee Cups	0.18	2.4%			4.41	7.4%	2.47	11.3%	0.03	18.8%	0.04	1.0%			7.13	7.7%
Coffee Pods	0.75	10.0%			1.52	2.6%		0.0%		0.0%		0.0%			2.27	2.4%
LDPE Plastic Films		0.0%			1.15	1.9%	1.35	6.2%		0.0%		0.0%			2.50	2.7%
Styrofoam		0.0%			0.35	0.6%		0.0%		0.0%	0.02	0.5%			0.37	0.4%
Mixed Plastics		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Lab Plastics		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Lab Glass		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Scrap Metals		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Scrap Woods		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Electronic Wastes		0.0%			0.2	0.3%		0.0%		0.0%		0.0%			0.20	0.2%
Bulbs & Ballats		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Batteries		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Printer Toners		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Textiles		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Shoes/Boots		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Office Supplies (Pens, Markers, etc)		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Take-out Food Packaging		0.0%				0.0%	0.45	2.1%		0.0%		0.0%			0.45	0.5%
Food/Snack Wrappers	0.06	0.8%			0.35	0.6%	0.31	1.4%		0.0%		0.0%			0.72	0.8%
PPE		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Latex/Nitrile Gloves		0.0%				0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Single Use Plastics	0.03	0.4%			3.31	5.6%	0.04	0.2%		0.0%	0.01	0.2%			3.39	3.6%
Other / Non recyclable	0.00	0.0%			3.31	5.6%	0.00	0.0%	0.04	25.0%	0.00	0.0%			3.35	3.6%
Total QAQC Check	7.47	100.0%			59.49	100.0%	21.82	100.0%	0.16	100.0%	4.14	100.0%			93.08	100.0%
Total Mixed Containers	0.71	9.5%			14.52	24.4%	2.15	9.9%	0.03	18.8%	0.11	2.7%			17.52	18.8%
Total Mixed Fibres	0.94	12.6%			8.47	14.2%	5.26	24.1%	0.06	37.5%	0.00	0.0%			14.73	15.8%
O.Reg.103/94 - Mandatory	0.04	0.5%			10.06	16.9%	0.76	3.5%	0.06	37.5%	0.00	0.0%			10.92	11.7%
Other Recyclables	7.43	99.5%			46.12	77.5%	21.06	96.5%	0.06	37.5%	4.14	100.0%			78.81	84.7%
Non-Recyclables	0.00	0.0%			3.31	5.6%	0.00	0.0%	0.04	25.0%	0.00	0.0%			3.35	3.6%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Whitney Hall 85 St. George St.
 Date: Oct. 5/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):	8.04				97.30				4.37						109.71	
Total Percent of Sample (in %):	7.3%		0.0%		88.7%		0.0%		4.0%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)		0.0%			2.85	2.9%			0.68	15.6%					3.53	3.2%
HDPE (#2)		0.0%				0.0%				0.0%					0.00	0.0%
PP (#5)		0.0%			0.53	0.5%			0.01	0.2%					0.54	0.5%
PS (#6)		0.0%			0.51	0.5%			0.08	1.8%					0.59	0.5%
Glass		0.0%			3.18	3.3%			0.58	13.3%					3.76	3.4%
Aluminum		0.0%			1.45	1.5%			0.07	1.6%					1.52	1.4%
Steel		0.0%				0.0%				0.0%					0.00	0.0%
Gable Top		0.0%			0.6	0.6%				0.0%					0.60	0.5%
Aseptic		0.0%				0.0%				0.0%					0.00	0.0%
Fine Papers	2.8	34.8%				0.0%			0.04	0.9%					2.84	2.6%
Newsprint		0.0%				0.0%				0.0%					0.00	0.0%
Boxboard	4.1	51.0%			15.17	15.6%			1.21	27.7%					20.48	18.7%
Other Paper Fibres	0.23	2.9%			1.87	1.9%			0.48	11.0%					2.58	2.4%
Corrugated Cardboard	0.08	1.0%				0.0%				0.0%					0.08	0.1%
Compostable Fibres	0.07	0.9%			11.6	11.9%				0.0%					11.67	10.6%
Organic Food Waste		0.0%			23.21	23.9%				0.0%					23.21	21.2%
Compostable Dishware		0.0%				0.0%				0.0%					0.00	0.0%
Other Fiber Drink Cups		0.0%				0.0%				0.0%					0.00	0.0%
Coffee Cups		0.0%			1.95	2.0%			0.11	2.5%					2.06	1.9%
Coffee Pods		0.0%				0.0%				0.0%					0.00	0.0%
LDPE Plastic Films		0.0%				0.0%				0.0%					0.00	0.0%
Styrofoam		0.0%			0.05	0.1%				0.0%					0.05	0.0%
Mixed Plastics		0.0%				0.0%				0.0%					0.00	0.0%
Lab Plastics		0.0%				0.0%				0.0%					0.00	0.0%
Lab Glass		0.0%				0.0%				0.0%					0.00	0.0%
Scrap Metals		0.0%				0.0%				0.0%					0.00	0.0%
Scrap Woods		0.0%				0.0%				0.0%					0.00	0.0%
Electronic Wastes		0.0%				0.0%				0.0%					0.00	0.0%
Bulbs & Ballats		0.0%				0.0%				0.0%					0.00	0.0%
Batteries		0.0%				0.0%				0.0%					0.00	0.0%
Printer Toners		0.0%				0.0%				0.0%					0.00	0.0%
Textiles		0.0%				0.0%			0.37	8.5%					0.37	0.3%
Shoes/Boots		0.0%				0.0%				0.0%					0.00	0.0%
Office Supplies (Pens, Markers, etc)		0.0%				0.0%				0.0%					0.00	0.0%
Take-out Food Packaging		0.0%			19.61	20.2%				0.0%					19.61	17.9%
Food/Snack Wrappers		0.0%			1.96	2.0%			0.09	2.1%					2.05	1.9%
PPE		0.0%				0.0%				0.0%					0.00	0.0%
Latex/Nitrile Gloves		0.0%				0.0%				0.0%					0.00	0.0%
Single Use Plastics		0.0%			4.82	5.0%			0.22	5.0%					5.04	4.6%
Other / Non recyclable	0.76	9.5%			7.94	8.2%			0.43	9.8%					9.13	8.3%
Total QAQC Check	8.04	100.0%			97.30	100.0%			4.37	100.0%					109.71	100.0%
Total Mixed Containers	0.00	0.0%			9.12	9.4%			1.42	32.5%					10.54	9.6%
Total Mixed Fibres	7.13	88.7%			17.04	17.5%			1.73	39.6%					25.90	23.6%
O.Reg.103/94 - Mandatory	2.88	35.8%			4.63	4.8%			0.69	15.8%					8.20	7.5%
Other Recyclables	4.40	54.7%			84.73	87.1%			3.25	74.4%					92.38	84.2%
Non-Recyclables	0.76	9.5%			7.94	8.2%			0.43	9.8%					9.13	8.3%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Warren Stevens Building 55 Harbord St.
 Date: Oct. 5/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):	2.10		2.08		10.44				0.08						14.70	
Total Percent of Sample (in %):	14.3%		14.1%		71.0%		0.0%		0.5%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)		0.0%		0.0%	0.76	7.3%				0.0%					0.76	5.2%
HDPE (#2)		0.0%		0.0%	0.26	2.5%				0.0%					0.26	1.8%
PP (#5)		0.0%		0.0%	0.35	3.4%				0.0%					0.35	2.4%
PS (#6)	0.01	0.5%		0.0%	0.29	2.8%				0.0%					0.30	2.0%
Glass		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Aluminum	0.07	3.3%	0.06	2.9%	0.04	0.4%			0.02	25.0%					0.19	1.3%
Steel		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Gable Top		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Aseptic		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Fine Papers	0.01	0.5%		0.0%	0.29	2.8%			0.06	75.0%					0.36	2.4%
Newsprint		0.0%		0.0%	0.09	0.9%				0.0%					0.09	0.6%
Boxboard		0.0%		0.0%	0.33	3.2%				0.0%					0.33	2.2%
Other Paper Fibres	0.03	1.4%	0.01	0.5%	0.09	0.9%				0.0%					0.13	0.9%
Corrugated Cardboard		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Compostable Fibres	1.1	52.4%		0.0%	0.75	7.2%				0.0%					1.85	12.6%
Organic Food Waste	0.29	13.8%	1.89	90.9%	3.89	37.3%				0.0%					6.07	41.3%
Compostable Dishware		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Other Fiber Drink Cups		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Coffee Cups	0.03	1.4%		0.0%	0.48	4.6%				0.0%					0.51	3.5%
Coffee Pods		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
LDPE Plastic Films		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Styrofoam	0.26	12.4%		0.0%	0.2	1.9%				0.0%					0.46	3.1%
Mixed Plastics		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Lab Plastics		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Lab Glass		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Scrap Metals		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Scrap Woods		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Electronic Wastes		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Bulbs & Ballasts		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Batteries		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Printer Toners		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Textiles		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Shoes/Boots		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Office Supplies (Pens, Markers, etc)		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Take-out Food Packaging		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Food/Snack Wrappers		0.0%	0.01	0.5%	0.01	0.1%				0.0%					0.02	0.1%
PPE	0.02	1.0%		0.0%	0.4	3.8%				0.0%					0.42	2.9%
Latex/Nitrile Gloves		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Single Use Plastics		0.0%		0.0%	0.42	4.0%				0.0%					0.42	2.9%
Other / Non recyclable	0.28	13.3%	0.11	5.3%	1.79	17.1%			0.00	0.0%					2.18	14.8%
Total QAQC Check	2.10	100.0%	2.08	100.0%	10.44	100.0%			0.08	100.0%					14.70	100.0%
Total Mixed Containers	0.08	3.8%	0.06	2.9%	1.70	16.3%			0.02	25.0%					1.86	12.7%
Total Mixed Fibres	0.04	1.9%	0.01	0.5%	0.80	7.7%			0.06	75.0%					0.91	6.2%
O.Reg.103/94 - Mandatory	0.08	3.8%	0.06	2.9%	0.42	4.0%			0.08	100.0%					0.64	4.4%
Other Recyclables	1.74	82.9%	1.91	91.8%	8.23	78.8%			0.00	0.0%					11.88	80.8%
Non-Recyclables	0.28	13.3%	0.11	5.3%	1.79	17.1%			0.00	0.0%					2.18	14.8%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Wallberg Building 184-200 College St.
 Date: Oct. 5/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):	6.54		13.37		10.21				0.34						30.46	
Total Percent of Sample (in %):	21.5%		43.9%		33.5%		0.0%		1.1%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)	0.08	1.2%	0.01	0.1%		0.0%				0.0%					0.09	0.3%
HDPE (#2)		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
PP (#5)	0.27	4.1%	0.71	5.3%	0.05	0.5%			0.18	52.9%					1.21	4.0%
PS (#6)	0.29	4.4%	0.02	0.1%		0.0%				0.0%					0.31	1.0%
Glass		0.0%		0.0%	0.03	0.3%			0.02	5.9%					0.05	0.2%
Aluminum		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Steel		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Gable Top		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Aseptic	0.09	1.4%	0.01	0.1%		0.0%			0.01	2.9%					0.11	0.4%
Fine Papers		0.0%		0.0%	0.02	0.2%			0.01	2.9%					0.03	0.1%
Newsprint		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Boxboard		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Other Paper Fibres	0.3	4.6%	0.01	0.1%	0.06	0.6%				0.0%					0.37	1.2%
Corrugated Cardboard		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Compostable Fibres		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Organic Food Waste		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Compostable Dishware		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Other Fiber Drink Cups	0.2	3.1%	0.01	0.1%	0.04	0.4%			0.01	2.9%					0.26	0.9%
Coffee Cups		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Coffee Pods		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
LDPE Plastic Films	1.24	19.0%		0.0%		0.0%				0.0%					1.24	4.1%
Styrofoam	0.51	7.8%	8.1	60.6%	8.5	83.3%				0.0%					17.11	56.2%
Mixed Plastics		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Lab Plastics		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Lab Glass		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Scrap Metals		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Scrap Woods		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Electronic Wastes		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Bulbs & Ballasts		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Batteries		0.0%		0.0%	0.02	0.2%				0.0%					0.02	0.1%
Printer Toners	1.25	19.1%	3.46	25.9%	0.8	7.8%				0.0%					5.51	18.1%
Textiles		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Shoes/Boots		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Office Supplies (Pens, Markers, etc)		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Take-out Food Packaging		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Food/Snack Wrappers		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
PPE		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Latex/Nitrile Gloves	1.75	26.8%	0.58	4.3%	0.02	0.2%				0.0%					2.35	7.7%
Single Use Plastics		0.0%		0.0%		0.0%				0.0%					0.00	0.0%
Other / Non recyclable	0.56	8.6%	0.46	3.4%	0.67	6.6%			0.11	32.4%					1.80	5.9%
Total QAQC Check	6.54	100.0%	13.37	100.0%	10.21	100.0%			0.34	100.0%					30.46	100.0%
Total Mixed Containers	0.73	11.2%	0.75	5.6%	0.08	0.8%			0.21	61.8%					1.77	5.8%
Total Mixed Fibres	0.30	4.6%	0.01	0.1%	0.08	0.8%			0.01	2.9%					0.40	1.3%
O.Reg.103/94 - Mandatory	0.00	0.0%	0.00	0.0%	0.05	0.5%			0.03	8.8%					0.08	0.3%
Other Recyclables	4.23	64.7%	12.33	92.2%	9.47	92.8%			0.20	58.8%					26.23	86.1%
Non-Recyclables	2.31	35.3%	1.04	7.8%	0.69	6.8%			0.11	32.4%					4.15	13.6%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Edward Johnson Building 80 Queen's Park
 Date: Oct. 6/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):	0.26				23.32				0.16						23.74	
Total Percent of Sample (in %):	1.1%		0.0%		98.2%		0.0%		0.7%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)		0.0%			0.08	0.3%				0.0%					0.08	0.3%
HDPE (#2)		0.0%			0.12	0.5%				0.0%					0.12	0.5%
PP (#5)		0.0%			0.18	0.8%				0.0%					0.18	0.8%
PS (#6)		0.0%			0.61	2.6%				0.0%					0.61	2.6%
Glass		0.0%				0.0%				0.0%					0.00	0.0%
Aluminum		0.0%				0.0%				0.0%					0.00	0.0%
Steel		0.0%				0.0%				0.0%					0.00	0.0%
Gable Top		0.0%			0.04	0.2%				0.0%					0.04	0.2%
Aseptic		0.0%				0.0%				0.0%					0.00	0.0%
Fine Papers	0.26	100.0%			0.67	2.9%				0.0%					0.93	3.9%
Newsprint		0.0%				0.0%				0.0%					0.00	0.0%
Boxboard		0.0%			0.66	2.8%			0.11	68.8%					0.77	3.2%
Other Paper Fibres		0.0%			0.22	0.9%				0.0%					0.22	0.9%
Corrugated Cardboard		0.0%				0.0%				0.0%					0.00	0.0%
Compostable Fibres		0.0%			2.96	12.7%				0.0%					2.96	12.5%
Organic Food Waste		0.0%			14.49	62.1%				0.0%					14.49	61.0%
Compostable Dishware		0.0%				0.0%				0.0%					0.00	0.0%
Other Fiber Drink Cups		0.0%				0.0%				0.0%					0.00	0.0%
Coffee Cups		0.0%			0.82	3.5%				0.0%					0.82	3.5%
Coffee Pods		0.0%			0.56	2.4%				0.0%					0.56	2.4%
LDPE Plastic Films		0.0%				0.0%				0.0%					0.00	0.0%
Styrofoam		0.0%				0.0%				0.0%					0.00	0.0%
Mixed Plastics		0.0%				0.0%				0.0%					0.00	0.0%
Lab Plastics		0.0%				0.0%				0.0%					0.00	0.0%
Lab Glass		0.0%				0.0%				0.0%					0.00	0.0%
Scrap Metals		0.0%				0.0%				0.0%					0.00	0.0%
Scrap Woods		0.0%				0.0%				0.0%					0.00	0.0%
Electronic Wastes		0.0%				0.0%				0.0%					0.00	0.0%
Bulbs & Ballasts		0.0%				0.0%				0.0%					0.00	0.0%
Batteries		0.0%				0.0%				0.0%					0.00	0.0%
Printer Toners		0.0%				0.0%				0.0%					0.00	0.0%
Textiles		0.0%				0.0%				0.0%					0.00	0.0%
Shoes/Boots		0.0%				0.0%				0.0%					0.00	0.0%
Office Supplies (Pens, Markers, etc)		0.0%				0.0%				0.0%					0.00	0.0%
Take-out Food Packaging		0.0%				0.0%				0.0%					0.00	0.0%
Food/Snack Wrappers		0.0%			0.02	0.1%				0.0%					0.02	0.1%
PPE		0.0%				0.0%				0.0%					0.00	0.0%
Latex/Nitrile Gloves		0.0%				0.0%				0.0%					0.00	0.0%
Single Use Plastics		0.0%			0.02	0.1%				0.0%					0.02	0.1%
Other / Non recyclable	0.00	0.0%			1.87	8.0%			0.05	31.3%					1.92	8.1%
Total QAQC Check	0.26	100.0%			23.32	100.0%			0.16	100.0%					23.74	100.0%
Total Mixed Containers	0.00	0.0%			1.03	4.4%			0.00	0.0%					1.03	4.3%
Total Mixed Fibres	0.26	100.0%			1.55	6.6%			0.11	68.8%					1.92	8.1%
O.Reg.103/94 - Mandatory	0.26	100.0%			0.67	2.9%			0.00	0.0%					0.93	3.9%
Other Recyclables	0.00	0.0%			20.78	89.1%			0.11	68.8%					20.89	88.0%
Non-Recyclables	0.00	0.0%			1.87	8.0%			0.05	31.3%					1.92	8.1%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Sanford Fleming Building 5 King's College Rd.
 Date: Oct. 6/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):	9.19		12.97		16.88		5.93		0.32						45.29	
Total Percent of Sample (in %):	20.3%		28.6%		37.3%		13.1%		0.7%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)	3.64	39.6%		0.0%	1.42	8.4%	0.09	1.5%	0.03	9.4%					5.18	11.4%
HDPE (#2)		0.0%	0.22	1.7%		0.0%		0.0%		0.0%					0.22	0.5%
PP (#5)	0.42	4.6%		0.0%		0.0%		0.0%		0.0%					0.42	0.9%
PS (#6)	0.35	3.8%		0.0%	1.13	6.7%	0.06	1.0%		0.0%					1.54	3.4%
Glass	0.16	1.7%	0.14	1.1%	0.02	0.1%	0.05	0.8%	0.06	18.8%					0.43	0.9%
Aluminum		0.0%	0.03	0.2%		0.0%		0.0%		0.0%					0.03	0.1%
Steel		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Gable Top	1.01	11.0%		0.0%	0.06	0.4%		0.0%		0.0%					1.07	2.4%
Aseptic	0.19	2.1%	0.04	0.3%		0.0%	0.04	0.7%	0.01	3.1%					0.28	0.6%
Fine Papers		0.0%		0.0%	0.06	0.4%		0.0%		0.0%					0.06	0.1%
Newsprint		0.0%	4.81	37.1%		0.0%		0.0%		0.0%					4.81	10.6%
Boxboard		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Other Paper Fibres	0.12	1.3%		0.0%		0.0%	0.03	0.5%		0.0%					0.15	0.3%
Corrugated Cardboard		0.0%	0.31	2.4%		0.0%		0.0%		0.0%					0.31	0.7%
Compostable Fibres		0.0%		0.0%	0.07	0.4%		0.0%		0.0%					0.07	0.2%
Organic Food Waste	0.16	1.7%		0.0%		0.0%		0.0%		0.0%					0.16	0.4%
Compostable Dishware		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Other Fiber Drink Cups	0.35	3.8%		0.0%	0.04	0.2%		0.0%	0.08	25.0%					0.47	1.0%
Coffee Cups		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Coffee Pods		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
LDPE Plastic Films	0.42	4.6%		0.0%	4.75	28.1%	1.34	22.6%		0.0%					6.51	14.4%
Styrofoam	1.25	13.6%	0.16	1.2%	4.21	24.9%	1.62	27.3%		0.0%					7.24	16.0%
Mixed Plastics		0.0%	3.41	26.3%	0.08	0.5%		0.0%		0.0%					3.49	7.7%
Lab Plastics		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Lab Glass		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Scrap Metals		0.0%		0.0%	1.13	6.7%	1.1	18.5%		0.0%					2.23	4.9%
Scrap Woods		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Electronic Wastes		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Bulbs & Ballasts		0.0%		0.0%		0.0%	0.04	0.7%		0.0%					0.04	0.1%
Batteries	0.08	0.9%		0.0%	0.23	1.4%	0.02	0.3%		0.0%					0.33	0.7%
Printer Toners		0.0%	0.06	0.5%		0.0%		0.0%		0.0%					0.06	0.1%
Textiles		0.0%	3.3	25.4%		0.0%		0.0%		0.0%					3.30	7.3%
Shoes/Boots		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Office Supplies (Pens, Markers, etc)		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Take-out Food Packaging		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Food/Snack Wrappers		0.0%		0.0%	0.71	4.2%		0.0%		0.0%					0.71	1.6%
PPE		0.0%		0.0%		0.0%		0.0%		0.0%					0.00	0.0%
Latex/Nitrile Gloves	0.11	1.2%		0.0%	1.21	7.2%	0.11	1.9%		0.0%					1.43	3.2%
Single Use Plastics		0.0%	0.02	0.2%		0.0%		0.0%		0.0%					0.02	0.0%
Other / Non recyclable	0.93	10.1%	0.47	3.6%	1.76	10.4%	1.43	24.1%	0.14	43.8%					4.73	10.4%
Total QAQC Check	9.19	100.0%	12.97	100.0%	16.88	100.0%	5.93	100.0%	0.32	100.0%					45.29	100.0%
Total Mixed Containers	5.77	62.8%	0.43	3.3%	2.63	15.6%	0.24	4.0%	0.10	31.3%					9.17	20.2%
Total Mixed Fibres	0.12	1.3%	4.81	37.1%	0.06	0.4%	0.03	0.5%	0.00	0.0%					5.02	11.1%
O.Reg.103/94 - Mandatory	0.16	1.7%	5.29	40.8%	0.08	0.5%	0.05	0.8%	0.06	18.8%					5.64	12.5%
Other Recyclables	7.99	86.9%	7.21	55.6%	13.83	81.9%	4.34	73.2%	0.12	37.5%					33.49	73.9%
Non-Recyclables	1.04	11.3%	0.47	3.6%	2.97	17.6%	1.54	26.0%	0.14	43.8%					6.16	13.6%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Robarts Library (Day 2) 130 St. George St.
 Date: Oct. 6/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):	12.93				19.52		6.00		0.39						38.84	
Total Percent of Sample (in %):	33.3%		0.0%		50.3%		15.4%		1.0%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)	0.04	0.3%			0.44	2.3%	0.04	0.7%		0.0%					0.52	1.3%
HDPE (#2)	0.03	0.2%				0.0%		0.0%		0.0%					0.03	0.1%
PP (#5)		0.0%			0.43	2.2%	0.06	1.0%		0.0%					0.49	1.3%
PS (#6)	0.02	0.2%			0.09	0.5%	0.06	1.0%		0.0%					0.17	0.4%
Glass		0.0%			0.72	3.7%		0.0%		0.0%					0.72	1.9%
Aluminum		0.0%			0.2	1.0%		0.0%		0.0%					0.20	0.5%
Steel		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Gable Top		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Aseptic		0.0%			0.07	0.4%		0.0%		0.0%					0.07	0.2%
Fine Papers	2.05	15.9%			1.03	5.3%	0.02	0.3%	0.03	7.7%					3.13	8.1%
Newsprint	0.26	2.0%			0.41	2.1%		0.0%		0.0%					0.67	1.7%
Boxboard	2.76	21.3%			0.16	0.8%		0.0%	0.23	59.0%					3.15	8.1%
Other Paper Fibres	6.8	52.6%			3.25	16.6%	0.2	3.3%		0.0%					10.25	26.4%
Corrugated Cardboard		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Compostable Fibres	0.34	2.6%			8.01	41.0%	1.31	21.8%		0.0%					9.66	24.9%
Organic Food Waste		0.0%			2.66	13.6%	2.6	43.3%		0.0%					5.26	13.5%
Compostable Dishware		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Other Fiber Drink Cups		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Coffee Cups		0.0%			0.32	1.6%	0.08	1.3%		0.0%					0.40	1.0%
Coffee Pods		0.0%				0.0%	0.31	5.2%		0.0%					0.31	0.8%
LDPE Plastic Films		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Styrofoam		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Mixed Plastics		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Lab Plastics		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Lab Glass		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Scrap Metals		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Scrap Woods		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Electronic Wastes		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Bulbs & Ballasts		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Batteries		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Printer Toners		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Textiles		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Shoes/Boots		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Office Supplies (Pens, Markers, etc)		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Take-out Food Packaging		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Food/Snack Wrappers		0.0%			0.38	1.9%	0.02	0.3%		0.0%					0.40	1.0%
PPE		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Latex/Nitrile Gloves		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Single Use Plastics	0.08	0.6%			0.22	1.1%	0.81	13.5%		0.0%					1.11	2.9%
Other / Non recyclable	0.55	4.3%			1.13	5.8%	0.49	8.2%	0.13	33.3%					2.30	5.9%
Total QAQC Check	12.93	100.0%			19.52	100.0%	6.00	100.0%	0.39	100.0%					38.84	100.0%
Total Mixed Containers	0.09	0.7%			1.95	10.0%	0.16	2.7%	0.00	0.0%					2.20	5.7%
Total Mixed Fibres	11.87	91.8%			4.85	24.8%	0.22	3.7%	0.26	66.7%					17.20	44.3%
O.Reg.103/94 - Mandatory	2.31	17.9%			2.36	12.1%	0.02	0.3%	0.03	7.7%					4.72	12.2%
Other Recyclables	10.07	77.9%			16.03	82.1%	5.49	91.5%	0.23	59.0%					31.82	81.9%
Non-Recyclables	0.55	4.3%			1.13	5.8%	0.49	8.2%	0.13	33.3%					2.30	5.9%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Whitney Hall (Day 2) 85 St. George St.
 Date: Oct. 7/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):					47.06				1.45						48.51	
Total Percent of Sample (in %):	0.0%		0.0%		97.0%		0.0%		3.0%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)					3.19	6.8%			0.02	1.4%					3.21	6.6%
HDPE (#2)						0.0%				0.0%					0.00	0.0%
PP (#5)						0.0%				0.0%					0.00	0.0%
PS (#6)					1.15	2.4%			0.14	9.7%					1.29	2.7%
Glass					8.27	17.6%				0.0%					8.27	17.0%
Aluminum					0.75	1.6%			0.12	8.3%					0.87	1.8%
Steel						0.0%				0.0%					0.00	0.0%
Gable Top					0.15	0.3%			0.2	13.8%					0.35	0.7%
Aseptic						0.0%				0.0%					0.00	0.0%
Fine Papers						0.0%				0.0%					0.00	0.0%
Newsprint						0.0%				0.0%					0.00	0.0%
Boxboard					2.53	5.4%			0.2	13.8%					2.73	5.6%
Other Paper Fibres					0.18	0.4%			0.29	20.0%					0.47	1.0%
Corrugated Cardboard						0.0%				0.0%					0.00	0.0%
Compostable Fibres					6.08	12.9%				0.0%					6.08	12.5%
Organic Food Waste					14.38	30.6%				0.0%					14.38	29.6%
Compostable Dishware					3.3	7.0%				0.0%					3.30	6.8%
Other Fiber Drink Cups						0.0%				0.0%					0.00	0.0%
Coffee Cups					0.18	0.4%			0.04	2.8%					0.22	0.5%
Coffee Pods						0.0%				0.0%					0.00	0.0%
LDPE Plastic Films						0.0%				0.0%					0.00	0.0%
Styrofoam						0.0%				0.0%					0.00	0.0%
Mixed Plastics						0.0%				0.0%					0.00	0.0%
Lab Plastics						0.0%				0.0%					0.00	0.0%
Lab Glass						0.0%				0.0%					0.00	0.0%
Scrap Metals						0.0%				0.0%					0.00	0.0%
Scrap Woods						0.0%				0.0%					0.00	0.0%
Electronic Wastes						0.0%				0.0%					0.00	0.0%
Bulbs & Ballats						0.0%				0.0%					0.00	0.0%
Batteries						0.0%				0.0%					0.00	0.0%
Printer Toners						0.0%				0.0%					0.00	0.0%
Textiles						0.0%				0.0%					0.00	0.0%
Shoes/Boots						0.0%				0.0%					0.00	0.0%
Office Supplies (Pens, Markers, etc)						0.0%				0.0%					0.00	0.0%
Take-out Food Packaging						0.0%				0.0%					0.00	0.0%
Food/Snack Wrappers					0.31	0.7%				0.0%					0.31	0.6%
PPE						0.0%				0.0%					0.00	0.0%
Latex/Nitrile Gloves						0.0%				0.0%					0.00	0.0%
Single Use Plastics					1.12	2.4%				0.0%					1.12	2.3%
Other / Non recyclable					5.47	11.6%			0.44	30.3%					5.91	12.2%
Total QAQC Check					47.06	100.0%			1.45	100.0%					48.51	100.0%
Total Mixed Containers					13.51	28.7%			0.48	33.1%					13.99	28.8%
Total Mixed Fibres					2.71	5.8%			0.49	33.8%					3.20	6.6%
O.Reg.103/94 - Mandatory					9.02	19.2%			0.12	8.3%					9.14	18.8%
Other Recyclables					32.57	69.2%			0.89	61.4%					33.46	69.0%
Non-Recyclables					5.47	11.6%			0.44	30.3%					5.91	12.2%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: CCBR 160 College St
 Date: Oct. 7/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):			66.98		3.25				0.78		5.23				76.24	
Total Percent of Sample (in %):	0.0%		87.9%		4.3%		0.0%		1.0%		6.9%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)				0.0%		0.0%			0.02	2.6%		0.0%			0.02	0.0%
HDPE (#2)				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
PP (#5)				0.0%	0.02	0.6%				0.0%		0.0%			0.02	0.0%
PS (#6)				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Glass				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Aluminum			0.51	0.8%	0.06	1.8%				0.0%		0.0%			0.57	0.7%
Steel				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Gable Top				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Aseptic				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Fine Papers			0.59	0.9%		0.0%			0.09	11.5%		0.0%			0.68	0.9%
Newsprint				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Boxboard			1.51	2.3%		0.0%			0.26	33.3%		0.0%			1.77	2.3%
Other Paper Fibres			0.1	0.1%	0.18	5.5%			0.02	2.6%	0.3	5.7%			0.60	0.8%
Corrugated Cardboard				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Compostable Fibres			39.67	59.2%	0.36	11.1%				0.0%	1.36	26.0%			41.39	54.3%
Organic Food Waste				0.0%	0.75	23.1%				0.0%		0.0%			0.75	1.0%
Compostable Dishware				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Other Fiber Drink Cups				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Coffee Cups				0.0%	0.01	0.3%				0.0%		0.0%			0.01	0.0%
Coffee Pods				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
LDPE Plastic Films				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Styrofoam			0.54	0.8%		0.0%				0.0%		0.0%			0.54	0.7%
Mixed Plastics				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Lab Plastics			6.39	9.5%		0.0%				0.0%		0.0%			6.39	8.4%
Lab Glass				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Scrap Metals				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Scrap Woods				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Electronic Wastes				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Bulbs & Ballasts				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Batteries				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Printer Toners				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Textiles				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Shoes/Boots				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Office Supplies (Pens, Markers, etc)				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Take-out Food Packaging				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Food/Snack Wrappers				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
PPE			6.8	10.2%	0.02	0.6%			0.25	32.1%	1.41	27.0%			8.48	11.1%
Latex/Nitrile Gloves				0.0%		0.0%				0.0%		0.0%			0.00	0.0%
Single Use Plastics			10.34	15.4%	0.23	7.1%				0.0%	1.7	32.5%			12.27	16.1%
Other / Non recyclable			0.53	0.8%	1.62	49.8%			0.14	17.9%	0.46	8.8%			2.75	3.6%
Total QAQC Check			66.98	100.0%	3.25	100.0%			0.78	100.0%	5.23	100.0%			76.24	100.0%
Total Mixed Containers			0.51	0.8%	0.08	2.5%			0.02	2.6%	0.00	0.0%			0.61	0.8%
Total Mixed Fibres			2.20	3.3%	0.18	5.5%			0.37	47.4%	0.30	5.7%			3.05	4.0%
O.Reg.103/94 - Mandatory			1.10	1.6%	0.06	1.8%			0.09	11.5%	0.00	0.0%			1.25	1.6%
Other Recyclables			65.35	97.6%	1.57	48.3%			0.55	70.5%	4.77	91.2%			72.24	94.8%
Non-Recyclables			0.53	0.8%	1.62	49.8%			0.14	17.9%	0.46	8.8%			2.75	3.6%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Astronomy 50 St. George St.
 Date: Oct. 7/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):															5.83	
Total Percent of Sample (in %):	0.0%		0.0%		0.0%		0.0%		0.0%		100.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)											0.03	0.5%			0.03	0.5%
HDPE (#2)												0.0%			0.00	0.0%
PP (#5)											0.04	0.7%			0.04	0.7%
PS (#6)											0.53	9.1%			0.53	9.1%
Glass												0.0%			0.00	0.0%
Aluminum												0.0%			0.00	0.0%
Steel												0.0%			0.00	0.0%
Gable Top												0.0%			0.00	0.0%
Aseptic												0.0%			0.00	0.0%
Fine Papers											0.08	1.4%			0.08	1.4%
Newsprint												0.0%			0.00	0.0%
Boxboard											0.13	2.2%			0.13	2.2%
Other Paper Fibres											0.27	4.6%			0.27	4.6%
Corrugated Cardboard												0.0%			0.00	0.0%
Compostable Fibres											1.81	31.0%			1.81	31.0%
Organic Food Waste											2.1	36.0%			2.10	36.0%
Compostable Dishware												0.0%			0.00	0.0%
Other Fiber Drink Cups												0.0%			0.00	0.0%
Coffee Cups											0.12	2.1%			0.12	2.1%
Coffee Pods												0.0%			0.00	0.0%
LDPE Plastic Films												0.0%			0.00	0.0%
Styrofoam												0.0%			0.00	0.0%
Mixed Plastics												0.0%			0.00	0.0%
Lab Plastics												0.0%			0.00	0.0%
Lab Glass												0.0%			0.00	0.0%
Scrap Metals												0.0%			0.00	0.0%
Scrap Woods												0.0%			0.00	0.0%
Electronic Wastes												0.0%			0.00	0.0%
Bulbs & Ballasts												0.0%			0.00	0.0%
Batteries												0.0%			0.00	0.0%
Printer Toners												0.0%			0.00	0.0%
Textiles												0.0%			0.00	0.0%
Shoes/Boots												0.0%			0.00	0.0%
Office Supplies (Pens, Markers, etc)												0.0%			0.00	0.0%
Take-out Food Packaging												0.0%			0.00	0.0%
Food/Snack Wrappers											0.1	1.7%			0.10	1.7%
PPE											0.05	0.9%			0.05	0.9%
Latex/Nitrile Gloves												0.0%			0.00	0.0%
Single Use Plastics											0.21	3.6%			0.21	3.6%
Other / Non recyclable											0.36	6.2%			0.36	6.2%
Total QAQC Check											5.83	100.0%			5.83	100.0%
Total Mixed Containers											0.60	10.3%			0.60	10.3%
Total Mixed Fibres											0.48	8.2%			0.48	8.2%
O.Reg.103/94 - Mandatory											0.08	1.4%			0.08	1.4%
Other Recyclables											5.39	92.5%			5.39	92.5%
Non-Recyclables											0.36	6.2%			0.36	6.2%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Koffler Student Centre 214 College St.
 Date: Oct. 8/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):	3.19				15.13		4.26		0.24						22.82	
Total Percent of Sample (in %):	14.0%		0.0%		66.3%		18.7%		1.1%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)		0.0%			1.8	11.9%		0.0%		0.0%					1.80	7.9%
HDPE (#2)		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
PP (#5)		0.0%			1.8	11.9%		0.0%		0.0%					1.80	7.9%
PS (#6)	0.01	0.3%			1.6	10.6%	0.02	0.5%		0.0%					1.63	7.1%
Glass		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Aluminum		0.0%			0.61	4.0%	0.04	0.9%		0.0%					0.65	2.8%
Steel		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Gable Top		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Aseptic		0.0%				0.0%	0.02	0.5%		0.0%					0.02	0.1%
Fine Papers	0.28	8.8%			0.15	1.0%		0.0%		0.0%					0.43	1.9%
Newsprint		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Boxboard	0.16	5.0%				0.0%	0.45	10.6%		0.0%					0.61	2.7%
Other Paper Fibres	0.04	1.3%			0.22	1.5%		0.0%		0.0%					0.26	1.1%
Corrugated Cardboard		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Compostable Fibres	1.89	59.2%			3.31	21.9%	1.75	41.1%		0.0%					6.95	30.5%
Organic Food Waste	0.51	16.0%			2.1	13.9%	1.33	31.2%		0.0%					3.94	17.3%
Compostable Dishware		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Other Fiber Drink Cups		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Coffee Cups	0.06	1.9%			1.52	10.0%	0.02	0.5%	0.03	12.5%					1.63	7.1%
Coffee Pods		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
LDPE Plastic Films		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Styrofoam		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Mixed Plastics		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Lab Plastics		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Lab Glass		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Scrap Metals		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Scrap Woods		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Electronic Wastes		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Bulbs & Ballasts		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Batteries		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Printer Toners		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Textiles		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Shoes/Boots		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Office Supplies (Pens, Markers, etc)		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Take-out Food Packaging		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Food/Snack Wrappers		0.0%			0.21	1.4%		0.0%		0.0%					0.21	0.9%
PPE		0.0%			0.48	3.2%		0.0%		0.0%					0.48	2.1%
Latex/Nitrile Gloves		0.0%				0.0%		0.0%		0.0%					0.00	0.0%
Single Use Plastics	0.03	0.9%			1.17	7.7%		0.0%		0.0%					1.20	5.3%
Other / Non recyclable	0.21	6.6%			0.16	1.1%	0.63	14.8%	0.21	87.5%					1.21	5.3%
Total QAQC Check	3.19	100.0%			15.13	100.0%	4.26	100.0%	0.24	100.0%					22.82	100.0%
Total Mixed Containers	0.01	0.3%			5.81	38.4%	0.08	1.9%	0.00	0.0%					5.90	25.9%
Total Mixed Fibres	0.48	15.0%			0.37	2.4%	0.45	10.6%	0.00	0.0%					1.30	5.7%
O.Reg.103/94 - Mandatory	0.28	8.8%			0.76	5.0%	0.04	0.9%	0.00	0.0%					1.08	4.7%
Other Recyclables	2.70	84.6%			14.21	93.9%	3.59	84.3%	0.03	12.5%					20.53	90.0%
Non-Recyclables	0.21	6.6%			0.16	1.1%	0.63	14.8%	0.21	87.5%					1.21	5.3%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Lash Miller Chemical Labs 80 St. George St.
 Date: Oct. 8/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):	6.47		7.37		10.65		4.18		0.64		8.07				37.38	
Total Percent of Sample (in %):	17.3%		19.7%		28.5%		11.2%		1.7%		21.6%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)	0.14	2.2%		0.0%		0.0%		0.0%		0.0%		0.0%			0.14	0.4%
HDPE (#2)		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
PP (#5)	0.09	1.4%		0.0%		0.0%		0.0%		0.0%		0.0%			0.09	0.2%
PS (#6)	0.09	1.4%		0.0%		0.0%		0.0%		0.0%		0.0%			0.09	0.2%
Glass		0.0%		0.0%	0.04	0.4%	0.49	11.7%		0.0%		0.0%			0.53	1.4%
Aluminum	0.02	0.3%	0.03	0.4%	0.24	2.3%		0.0%		0.0%		0.0%			0.29	0.8%
Steel		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Gable Top		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Aseptic		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Fine Papers	0.1	1.5%	0.09	1.2%	0.08	0.8%		0.0%		0.0%	0.15	1.9%			0.42	1.1%
Newsprint		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Boxboard	0.07	1.1%	0.27	3.7%		0.0%	0.02	0.5%	0.04	6.3%		0.0%			0.40	1.1%
Other Paper Fibres	0.65	10.0%	0.05	0.7%	0.25	2.3%	0.01	0.2%		0.0%		0.0%			0.96	2.6%
Corrugated Cardboard		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Compostable Fibres		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Organic Food Waste	2.4	37.1%	4.96	67.3%	5.97	56.1%	2.11	50.5%		0.0%	0.88	10.9%			16.32	43.7%
Compostable Dishware	1.98	30.6%		0.0%	1.83	17.2%	0.86	20.6%		0.0%		0.0%			4.67	12.5%
Other Fiber Drink Cups		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Coffee Cups	0.05	0.8%		0.0%	0.14	1.3%		0.0%		0.0%		0.0%			0.19	0.5%
Coffee Pods		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
LDPE Plastic Films		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Styrofoam	0.15	2.3%	0.1	1.4%	0.33	3.1%	0.05	1.2%		0.0%		0.0%			0.63	1.7%
Mixed Plastics		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Lab Plastics		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Lab Glass		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Scrap Metals		0.0%		0.0%	0.57	5.4%		0.0%		0.0%	4.9	60.7%			5.47	14.6%
Scrap Woods		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Electronic Wastes		0.0%		0.0%		0.0%		0.0%		0.0%	0.15	1.9%			0.15	0.4%
Bulbs & Ballasts		0.0%		0.0%		0.0%		0.0%	0.3	46.9%		0.0%			0.30	0.8%
Batteries		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Printer Toners		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Textiles		0.0%		0.0%		0.0%		0.0%		0.0%	0.31	3.8%			0.31	0.8%
Shoes/Boots		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Office Supplies (Pens, Markers, etc)		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Take-out Food Packaging		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Food/Snack Wrappers	0.15	2.3%	0.86	11.7%	0.04	0.4%	0.01	0.2%	0.03	4.7%		0.0%			1.09	2.9%
PPE	0.24	3.7%	0.55	7.5%	0.12	1.1%		0.0%	0.05	7.8%	0.07	0.9%			1.03	2.8%
Latex/Nitrile Gloves		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Single Use Plastics		0.0%		0.0%		0.0%		0.0%		0.0%		0.0%			0.00	0.0%
Other / Non recyclable	0.34	5.3%	0.46	6.2%	1.04	9.8%	0.63	15.1%	0.22	34.4%	1.61	20.0%			4.30	11.5%
Total QAQC Check	6.47	100.0%	7.37	100.0%	10.65	100.0%	4.18	100.0%	0.64	100.0%	8.07	100.0%			37.38	100.0%
Total Mixed Containers	0.34	5.3%	0.03	0.4%	0.28	2.6%	0.49	11.7%	0.00	0.0%	0.00	0.0%			1.14	3.0%
Total Mixed Fibres	0.82	12.7%	0.41	5.6%	0.33	3.1%	0.03	0.7%	0.04	6.3%	0.15	1.9%			1.78	4.8%
O.Reg.103/94 - Mandatory	0.12	1.9%	0.12	1.6%	0.36	3.4%	0.49	11.7%	0.00	0.0%	0.15	1.9%			1.24	3.3%
Other Recyclables	6.01	92.9%	6.79	92.1%	9.25	86.9%	3.06	73.2%	0.42	65.6%	6.31	78.2%			31.84	85.2%
Non-Recyclables	0.34	5.3%	0.46	6.2%	1.04	9.8%	0.63	15.1%	0.22	34.4%	1.61	20.0%			4.30	11.5%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: CCBR (Day 2) 160 College St
 Date: Oct. 9/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):			104.97		14.98										119.95	
Total Percent of Sample (in %):	0.0%		87.5%		12.5%		0.0%		0.0%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)			0.94	0.9%		0.0%									0.94	0.8%
HDPE (#2)			0.16	0.2%		0.0%									0.16	0.1%
PP (#5)			1.35	1.3%	0.06	0.4%									1.41	1.2%
PS (#6)			0.22	0.2%	0.08	0.5%									0.30	0.3%
Glass				0.0%		0.0%									0.00	0.0%
Aluminum			0.96	0.9%	0.19	1.3%									1.15	1.0%
Steel				0.0%		0.0%									0.00	0.0%
Gable Top				0.0%		0.0%									0.00	0.0%
Aseptic				0.0%		0.0%									0.00	0.0%
Fine Papers				0.0%		0.0%									0.00	0.0%
Newsprint				0.0%		0.0%									0.00	0.0%
Boxboard			26.8	25.5%	0.04	0.3%									26.84	22.4%
Other Paper Fibres			10.44	9.9%	0.28	1.9%									10.72	8.9%
Corrugated Cardboard				0.0%		0.0%									0.00	0.0%
Compostable Fibres			38.67	36.8%	2.85	19.0%									41.52	34.6%
Organic Food Waste			1.97	1.9%	2.38	15.9%									4.35	3.6%
Compostable Dishware				0.0%		0.0%									0.00	0.0%
Other Fiber Drink Cups				0.0%		0.0%									0.00	0.0%
Coffee Cups			0.84	0.8%	0.2	1.3%									1.04	0.9%
Coffee Pods				0.0%		0.0%									0.00	0.0%
LDPE Plastic Films				0.0%		0.0%									0.00	0.0%
Styrofoam			0.01	0.0%	0.05	0.3%									0.06	0.1%
Mixed Plastics				0.0%		0.0%									0.00	0.0%
Lab Plastics				0.0%		0.0%									0.00	0.0%
Lab Glass				0.0%		0.0%									0.00	0.0%
Scrap Metals				0.0%		0.0%									0.00	0.0%
Scrap Woods				0.0%		0.0%									0.00	0.0%
Electronic Wastes				0.0%		0.0%									0.00	0.0%
Bulbs & Ballasts				0.0%		0.0%									0.00	0.0%
Batteries				0.0%		0.0%									0.00	0.0%
Printer Toners				0.0%		0.0%									0.00	0.0%
Textiles				0.0%		0.0%									0.00	0.0%
Shoes/Boots				0.0%		0.0%									0.00	0.0%
Office Supplies (Pens, Markers, etc)				0.0%		0.0%									0.00	0.0%
Take-out Food Packaging				0.0%		0.0%									0.00	0.0%
Food/Snack Wrappers				0.0%		0.0%									0.00	0.0%
PPE			3.72	3.5%	0.04	0.3%									3.76	3.1%
Latex/Nitrile Gloves				0.0%		0.0%									0.00	0.0%
Single Use Plastics			17.54	16.7%	8.43	56.3%									25.97	21.7%
Other / Non recyclable			1.35	1.3%	0.38	2.5%									1.73	1.4%
Total QAQC Check			104.97	100.0%	14.98	100.0%									119.95	100.0%
Total Mixed Containers			3.63	3.5%	0.33	2.2%									3.96	3.3%
Total Mixed Fibres			37.24	35.5%	0.32	2.1%									37.56	31.3%
O.Reg.103/94 - Mandatory			0.96	0.9%	0.19	1.3%									1.15	1.0%
Other Recyclables			102.66	97.8%	14.41	96.2%									117.07	97.6%
Non-Recyclables			1.35	1.3%	0.38	2.5%									1.73	1.4%

General Comments and Observations:

Waste Audit Data Collection Sheet

Client: University of Toronto, St. George Campus
 Site: Simcoe Hall 27 King's College Circle
 Date: Oct. 9/20

Area of Collection:	Offices		Labs		Public Areas		Cafeteria		Washrooms		Miscel.		Unlabeled		Total	
Colour Code	Blue		Yellow		Black		Green		Red		White		Unlabeled			
Total Weight of Sample (in kg):	2.74				18.83				0.72						22.29	
Total Percent of Sample (in %):	12.3%		0.0%		84.5%		0.0%		3.2%		0.0%		0.0%		100.0%	
Composition of Garbage:	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%	kg	%
PET (#1)		0.0%			0.03	0.2%				0.0%					0.03	0.1%
HDPE (#2)		0.0%				0.0%				0.0%					0.00	0.0%
PP (#5)	0.2	7.3%			0.04	0.2%				0.0%					0.24	1.1%
PS (#6)	0.07	2.6%			0.03	0.2%				0.0%					0.10	0.4%
Glass		0.0%				0.0%				0.0%					0.00	0.0%
Aluminum	0.2	7.3%			0.11	0.6%				0.0%					0.31	1.4%
Steel		0.0%				0.0%				0.0%					0.00	0.0%
Gable Top		0.0%				0.0%				0.0%					0.00	0.0%
Aseptic		0.0%				0.0%				0.0%					0.00	0.0%
Fine Papers	0.07	2.6%				0.0%				0.0%					0.07	0.3%
Newsprint		0.0%				0.0%				0.0%					0.00	0.0%
Boxboard	0.02	0.7%			0.16	0.8%				0.0%					0.18	0.8%
Other Paper Fibres	0.22	8.0%			0.76	4.0%				0.0%					0.98	4.4%
Corrugated Cardboard		0.0%				0.0%				0.0%					0.00	0.0%
Compostable Fibres	0.39	14.2%			3.27	17.4%				0.0%					3.66	16.4%
Organic Food Waste	0.82	29.9%			6.34	33.7%				0.0%					7.16	32.1%
Compostable Dishware		0.0%				0.0%				0.0%					0.00	0.0%
Other Fiber Drink Cups		0.0%				0.0%				0.0%					0.00	0.0%
Coffee Cups	0.36	13.1%			0.25	1.3%				0.0%					0.61	2.7%
Coffee Pods		0.0%				0.0%				0.0%					0.00	0.0%
LDPE Plastic Films		0.0%				0.0%				0.0%					0.00	0.0%
Styrofoam		0.0%				0.0%				0.0%					0.00	0.0%
Mixed Plastics		0.0%				0.0%				0.0%					0.00	0.0%
Lab Plastics		0.0%				0.0%				0.0%					0.00	0.0%
Lab Glass		0.0%				0.0%				0.0%					0.00	0.0%
Scrap Metals		0.0%			0.64	3.4%				0.0%					0.64	2.9%
Scrap Woods		0.0%				0.0%				0.0%					0.00	0.0%
Electronic Wastes		0.0%				0.0%				0.0%					0.00	0.0%
Bulbs & Ballasts		0.0%				0.0%				0.0%					0.00	0.0%
Batteries		0.0%			0.5	2.7%			0.6	83.3%					1.10	4.9%
Printer Toners		0.0%				0.0%				0.0%					0.00	0.0%
Textiles		0.0%				0.0%				0.0%					0.00	0.0%
Shoes/Boots		0.0%				0.0%				0.0%					0.00	0.0%
Office Supplies (Pens, Markers, etc)		0.0%				0.0%				0.0%					0.00	0.0%
Take-out Food Packaging		0.0%				0.0%				0.0%					0.00	0.0%
Food/Snack Wrappers		0.0%				0.0%				0.0%					0.00	0.0%
PPE		0.0%			0.8	4.2%				0.0%					0.80	3.6%
Latex/Nitrile Gloves		0.0%				0.0%				0.0%					0.00	0.0%
Single Use Plastics	0.18	6.6%			4.36	23.2%				0.0%					4.54	20.4%
Other / Non recyclable	0.21	7.7%			1.54	8.2%			0.12	16.7%					1.87	8.4%
Total QAQC Check	2.74	100.0%			18.83	100.0%			0.72	100.0%					22.29	100.0%
Total Mixed Containers	0.47	17.2%			0.21	1.1%			0.00	0.0%					0.68	3.1%
Total Mixed Fibres	0.31	11.3%			0.92	4.9%			0.00	0.0%					1.23	5.5%
O.Reg.103/94 - Mandatory	0.27	9.9%			0.11	0.6%			0.00	0.0%					0.38	1.7%
Other Recyclables	2.26	82.5%			17.18	91.2%			0.60	83.3%					20.04	89.9%
Non-Recyclables	0.21	7.7%			1.54	8.2%			0.12	16.7%					1.87	8.4%

General Comments and Observations:

Appendix C

Waste Audit Summary

Ministry of the Environment Waste Form

Report of a Waste Audit

Industrial, Commercial and Institutional Establishments

As required by O. Reg. 102/94

- *This report must be prepared 6 months after becoming subject to O. Reg. 102/94 and a copy retained on file for at least five years after it is prepared, and be made available to the ministry upon request.*
- *For large construction and demolition projects, please refer to the forms included with "A Guide to Waste Audits and Waste Reduction Work Plans for Construction and Demolition Projects as Required Under Ontario Regulation 102/94" (revised July 2008)*

I. GENERAL INFORMATION

Name of Owner and/or Operator of Entity(ies) and Company Name: University of Toronto, St. George Campus			
Name of Contact Person: Reno Strano	Telephone #: 416-946-5711	Email address: reno.strano@utoronto.ca	
Street Address(es) of Entity(ies): 255 McCaul Street, 4th Level			
Municipality: Toronto, Ontario, M5T 1W7			
Type of Entity (check one)			
Retail Shopping Establishments	<input type="checkbox"/>	Hotels and Motels	<input type="checkbox"/>
Retail Shopping Complexes	<input type="checkbox"/>	Hospitals	<input type="checkbox"/>
Office Buildings	<input type="checkbox"/>	Educational Institutions	<input checked="" type="checkbox"/>
Restaurants	<input type="checkbox"/>	Large Manufacturing Establishments	<input type="checkbox"/>

Note: O. Reg. 102/94 does not apply to multi-unit residential buildings.

II. DESCRIPTION OF ENTITY

<p>Provide a brief overview of the entity(ties):</p> <p>The University of Toronto is a large multi-building, multi-facility community that has approximately 60 thousand students, staff and faculty occupying several major city blocks with over 140 buildings that generate waste and recycling materials. U of T is required to conduct an annual waste audit since it satisfies Part X of Ontario Regulation ("O. Reg.") 102/94 – Waste Audits and Waste Reduction Work Plans ("O. Reg.102/94") which requires educational institutions to conduct waste audits and prepare waste reduction plans on an annual basis if the location or campus has more than 350 full or part-time persons enrolled during the calendar year.</p>
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III. HOW WASTE IS PRODUCED AND DECISIONS AFFECTING THE PRODUCTION OF WASTE

For each category of waste that is produced at the entity(ies), explain how the waste will be produced and how management decisions and policies will affect the production of waste.	
Categories of Waste	How Is the Waste Produced and What Management Decisions/Policies Affect Its Production?
Organics & Food Waste	<i>Generated in cafeterias/food service and residence locations on campus, or brought in by staff/students. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Yard Waste	<i>Generated by grounds maintenance operations. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Scrap Wood	<i>Generated through woodworking operations. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Scrap Metal	<i>Generated through construction projects/maintenance. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Animal Bedding	<i>Generated through animal research facilities. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Polystyrene	<i>Generated in cafeterias/food service locations on campus, or brought in by staff/students. Also found in foam packaging. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Mixed Containers	<i>Generated in cafeterias/food service locations on campus, or brought in by staff/students. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Laboratory Glass and Plastic	<i>Generated in laboratory settings. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Amber Bottles	<i>Generated in laboratory settings. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Mixed Plastics	<i>Generated in cafeterias/food service locations on campus, or brought in by staff/students. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Coffee Cups	<i>Generated in cafeterias/food service locations on campus, or brought in by staff/students. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Soil & Plants	<i>Generated by grounds maintenance operations. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Light Bulbs	<i>Generated in all indoor and lighted outdoor areas. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
E-waste	<i>Generated in classroom, residence, and office areas. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Printer Cartridges	<i>Generated in residence and office areas. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Mixed Papers	<i>Generated in classroom, residence, and office areas. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Paper Towels	<i>Generated in washrooms. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Cardboard	<i>Generated in residence and office areas, and through deliveries. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Shredded Paper	<i>Generated in office areas. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>

Pallets	<i>Generated through deliveries. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Asphalt	<i>Generated through construction projects. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Stone, pavers & screening	<i>Generated through construction projects. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Concrete	<i>Generated through construction projects. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Clean fill	<i>Generated through construction or grounds/maintenance projects. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Catch basin material	<i>Generated through water collection (storm drain/sewer). Debris is caught in the catch basin to prevent it from entering the sewer/water system. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Swap Shop - Out	<i>"Swap Shop" is a place for staff/students to drop off/take reusable items. Generated throughout campus. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Swap Shop – In	<i>"Swap Shop" is a place for staff/students to drop off/take reusable items. Generated throughout campus. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Campus Furniture	<i>Generated in common areas/residences/offices. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Batteries	<i>Generated in classrooms, offices, and residence areas. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Aero. Misc. pick ups	<i>Generated at the Aerospace Library. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>
Waste	<i>Generated in cafeterias/food service areas, offices, residences, common areas, etc. U of T's Environmental Protection Policy* governs the generation and handling of all solid waste.</i>

Note: When completing this form, write "n/a" in the columns where the entity will not produce any waste for a category of waste.

IV. MANAGEMENT OF WASTE

For each category of waste listed below, indicate which waste items will be disposed or reused/recycled and how each item will be managed at the entity(ies).

Category	Waste to be Disposed	Reused or Recycled Waste
Organics & Food Waste	<i>May be placed into a trash bin and go to landfill.</i>	<i>Composting program currently in place.</i>
Yard Waste	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Scrap Wood	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Scrap Metal	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Animal Bedding	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Polystyrene	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Mixed Containers	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Laboratory Glass and Plastic	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Amber Bottles	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Mixed Plastics	<i>May be placed into a trash bin and go to landfill.</i>	<i>Organics compost program currently in place.</i>
Coffee Cups	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Soil & Plants	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Light Bulbs	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
E-waste	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Printer Cartridges	<i>May be placed into a trash bin and go to landfill.</i>	<i>Taken away by contractors.</i>
Mixed Papers	<i>May be placed into a trash bin and go to landfill.</i>	<i>Reused where possible or recycled</i>
Paper Towels	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Cardboard	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Shredded Paper	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Pallets	<i>May be placed into a trash bin and go to landfill.</i>	<i>Reuse program currently in place.</i>

Asphalt	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Stone, pavers & screening	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Concrete	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Clean fill	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Catch basin material	<i>Catch basin material is well-controlled, as only the vendor can remove it from the basins.</i>	<i>Catch basin material is considered reused. It is collected, dried out, and used as landfill cover. This prevents fresh soil from being dug to use as landfill cover.</i>
Swap Shop - Out	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Swap Shop – In	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Campus Furniture	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Batteries	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Aero. Misc. pick ups	<i>May be placed into a trash bin and go to landfill.</i>	<i>Recycling program currently in place.</i>
Waste	<i>All non-recyclable waste placed into trash bins will go to landfill.</i>	<i>Non-recyclable waste will not be recycled. If non-recyclable waste is placed into recycling bins, it will contaminate the load and must be removed at processing facility.</i>

Note: When completing this form, write “n/a” in the columns where the entity will not produce any waste for a category of waste.

V. ESTIMATED QUANTITY OF WASTE PRODUCED

Categories of Waste	Estimated Amount of Waste											
	Generated			Reduced/Reused			Recycled			Disposed		
	"A" Base Year	"B" Current Year	"C" * Change (B - A)	"A" Base Year	"B" Current Year	"C" * Change (B - A)	"A" Base Year	"B" Current Year	"C" * Change (B - A)	"A" Base Year	"B" Current Year	"C" * Change (B - A)
	Tonnes	Tonnes	Tonnes	Tonnes	Tonnes	Tonnes	Tonnes	Tonnes	Tonnes	Tonnes	Tonnes	Tonnes
PET (#1 Plastic)	24.63	122.34	97.71	0.00	0.00	0.00	12.23	68.88	56.65	12.40	53.46	41.06
HDPE (#2 Plastic)	1.01	5.00	4.00	0.00	0.00	0.00	0.50	2.82	2.32	0.51	2.19	1.68
PP (#5 Plastic)	12.49	62.06	49.56	0.00	0.00	0.00	6.20	34.94	28.73	6.29	27.12	20.83
PS (#6 Plastic)	0.00	76.11	76.11	0.00	0.00	0.00	0.00	42.85	42.85	0.00	33.26	33.26
Glass	21.53	120.42	98.89	0.00	13.47	13.47	10.69	60.21	49.52	10.84	46.74	35.89
Aluminum	10.85	53.89	43.04	0.00	0.00	0.00	5.39	30.34	24.95	5.46	23.55	18.09
Steel	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gable Top	2.66	13.23	10.57	0.00	0.00	0.00	1.32	7.45	6.13	1.34	5.78	4.44
Aseptic	1.98	9.81	7.84	0.00	0.00	0.00	0.98	5.53	4.54	1.00	4.29	3.29
Amber Bottles	0.00	5.60	5.60	0.00	0.00	0.00	0.00	5.60	5.60	0.00	0.00	0.00
Lab Glass & Plastic	0.00	51.63	51.63	0.00	0.00	0.00	0.00	33.95	33.95	0.00	17.68	17.68
Latex/Nitrile Gloves	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fine Papers	103.77	77.84	-25.93	0.00	0.00	0.00	92.55	39.96	-52.59	11.22	37.88	26.66
Newsprint	42.22	31.67	-10.55	0.00	0.00	0.00	37.66	16.26	-21.40	4.57	15.41	10.85
Boxboard	493.54	370.21	-123.33	0.00	0.00	0.00	440.17	190.04	-250.13	53.37	180.17	126.80
Other Fibres	229.75	172.34	-57.41	0.00	0.00	0.00	204.91	88.47	-116.44	24.84	83.87	59.03
Confidential Papers	0.00	123.48	123.48	0.00	0.00	0.00	0.00	123.48	123.48	0.00	0.00	0.00
Corrugated Cardboard	305.27	240.18	-65.09	0.00	0.00	0.00	295.53	237.99	-57.54	9.74	2.19	-7.55
Paper Towels	352.79	466.95	114.16	0.00	0.00	0.00	119.43	78.50	-40.93	233.36	388.45	155.09
Coffee Cups	0.00	51.79	51.79	0.00	0.00	0.00	0.00	11.00	11.00	0.00	40.79	40.79
LDPE (#4 Plastic) Films	0.00	28.36	28.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.36	28.36
Styrofoam (#6 Plastic)	41.92	79.22	37.30	0.00	0.00	0.00	4.08	6.00	1.92	37.84	73.22	35.38
Mixed Plastics	0.00	14.91	14.91	0.00	0.00	0.00	0.00	5.25	5.25	0.00	9.66	9.66
Scrap Metals	101.62	98.96	-2.66	0.00	0.00	0.00	97.35	75.89	-21.46	4.27	23.08	18.81
Scrap Woods	140.41	169.21	28.80	0.00	0.00	0.00	139.46	169.21	29.75	0.95	0.00	-0.95
Ewaste/electronics	83.51	53.23	-30.28	0.00	0.00	0.00	66.60	52.27	-14.33	16.91	0.97	-15.94
Batteries	0.00	6.33	6.33	0.00	0.00	0.00	0.00	2.32	2.32	0.00	4.01	4.01
Fluorescent Bulbs	0.00	7.54	7.54	0.00	0.00	0.00	0.00	6.60	6.60	0.00	0.94	0.94
Printer Toners	0.00	15.41	15.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.41	15.41
Asphalt	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Stone, Pavers & Screening	0.00	50.00	50.00	0.00	0.00	0.00	0.00	50.00	50.00	0.00	0.00	0.00
Soil from Construction Projects	0.00	46.00	46.00	0.00	0.00	0.00	0.00	46.00	46.00	0.00	0.00	0.00
Concrete from Construction	371.04	60.00	-311.04	0.00	0.00	0.00	371.04	60.00	-311.04	0.00	0.00	0.00
Clean Fill	0.00	10.00	10.00	0.00	0.00	0.00	0.00	10.00	10.00	0.00	0.00	0.00
Aero. Misc. Pick Ups	0.00	5.40	5.40	0.00	0.00	0.00	0.00	5.40	5.40	0.00	0.00	0.00
Misc: tires, mattresses, rocks etc.	0.00	4.16	4.16	0.00	0.00	0.00	0.00	4.16	4.16	0.00	0.00	0.00
Recycling from Compactor Loads	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Yard Wastes	0.00	104.61	104.61	0.00	0.00	0.00	0.00	104.61	104.61	0.00	0.00	0.00
Animal Bedding	0.00	94.85	94.85	0.00	0.00	0.00	0.00	94.85	94.85	0.00	0.00	0.00
Soil & Plant P/U	0.00	111.00	111.00	0.00	0.00	0.00	0.00	111.00	111.00	0.00	0.00	0.00
Plant & Tree Use, Composting	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grass & Wood Mulch	0.00	55.00	55.00	0.00	0.00	0.00	0.00	55.00	55.00	0.00	0.00	0.00
Catch Basin Material	0.00	12.00	12.00	0.00	0.00	0.00	0.00	12.00	12.00	0.00	0.00	0.00
Organics	1511.73	1094.04	-417.69	0.00	0.00	0.00	1084.44	724.77	-359.68	427.29	369.27	-58.02
89 Chestnut Organics	0.00	382.44	382.44	0.00	0.00	0.00	0.00	382.44	382.44	0.00	0.00	0.00
Swap Shop - Out, Including Pad	0.00	34.50	34.50	0.00	34.50	34.50	0.00	0.00	0.00	0.00	0.00	0.00
In-Swap	0.00	12.00	12.00	0.00	12.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00
Campus Furniture Projects	197.70	3.06	-194.64	197.70	3.06	-194.64	0.00	0.00	0.00	0.00	0.00	0.00
Wood Pallets	0.00	12.00	12.00	0.00	12.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00
Reduction via Various Programs	0.00	114.40	114.40	0.00	114.40	114.40	0.00	0.00	0.00	0.00	0.00	0.00
Other/Nonrecyclable	1191.62	418.36	-773.26	0.00	0.00	0.00	432.61	0.00	-432.61	759.01	418.36	-340.65
Total	5242.05	5151.55	-90.50	197.70	189.43	-8.27	3423.13	3056.01	-367.12	1621.21	1906.11	284.90
Percent Change (C ÷ A x 100)			-1.7%			-4.2%			-10.7%			17.6%

Note: When completing this form, write "n/a" in the "Estimated Amount of Waste Produced" column where the entity will not produce any waste for a category of waste.

* Fill out these columns each year following the initial waste audit or baseline year to determine the progress that is being made by your waste reduction program.

VI. EXTENT TO WHICH MATERIALS OR PRODUCTS USED OR SOLD BY THE ENTITY CONSIST OF RECYCLED OR REUSED MATERIALS OR PRODUCTS

Please answer the following questions:

1. Do you have a management policy in place that promotes the purchasing and/or use of materials or products that consist of recycled and/or reused materials or products? If yes, please describe.

The University of Toronto's current purchasing policy indicates that goods and services must be acquired in a manner that ensures that the University meets its statutory, legal and ethical obligations. The purchase/use of environmentally-friendly/sustainable materials/products is implied in the "ethical" obligations of the University's purchasing policy. The Purchasing Department is currently pursuing the publication of a specific environmental purchasing policy, though it has yet to be finalized.

2. Do you have plans to increase the extent to which materials or products used or sold* consist of recycled or reused materials or products? If yes, please describe.

Once the environmental purchasing policy is finalized, there will be a significant positive shift in the purchasing/procurement of products manufactured with recycled/reused materials. While every effort is currently being made, the purchase of environmentally-friendly products will increase once there is an overriding policy dictating the need to do so. The University of Toronto is strongly committed to reducing their environmental impact as much as possible.

* Information regarding materials or products "sold" that consist of recycled or reused materials or products is only required from owner(s) of retail shopping establishments and the owner(s) or operator(s) of large manufacturing establishments.

Please attach any additional page(s) as required to answer the above questions.

I hereby certify that the information provided in this Report of Waste Audit is complete and correct.		
Signature of authorized official:	Title:	Date:

Appendix D

Waste Reduction Work Plan

Ministry of the Environment Waste Form

Report of a Waste Reduction Work Plan

Industrial, Commercial and Institutional Establishments

As required by O. Reg. 102/94

This report must be prepared 6 months after becoming subject to O. Reg. 102/94 and a copy retained on file for at least five years after it is prepared, and be made available to the ministry upon request.

I. GENERAL INFORMATION

Name of Owner and/or Operator of Entity(ies) and Company Name: University of Toronto, St. George Campus			
Name of Contact Person: Reno Strano		Telephone #: 416-946-5711	Email address: reno.strano@utoronto.ca
Street Address(es) of Entity(ies): 255 McCaul Street, 4th Level			
Municipality: Toronto, Ontario, M5T 1W7			
Type of Entity (check one)			
Retail Shopping Establishments	<input type="checkbox"/>	Hotels and Motels	<input type="checkbox"/>
Retail Shopping Complexes	<input type="checkbox"/>	Hospitals	<input type="checkbox"/>
Office Buildings	<input type="checkbox"/>	Educational Institutions	<input checked="" type="checkbox"/>
Restaurants	<input type="checkbox"/>	Large Manufacturing Establishments	<input type="checkbox"/>

Note: O. Reg. 102/94 does not apply to multi-unit residential buildings.

II. DESCRIPTION OF THE ENTITY

Provide a brief overview of the entity(ties):
<p>The University of Toronto is a large multi-building, multi-facility community that has approximately 60 thousand students, staff and faculty occupying several major city blocks with over 140 buildings that generate waste and recycling materials. U of T is required to conduct an annual waste audit since it satisfies Part X of Ontario Regulation ("O. Reg.") 102/94 – Waste Audits and Waste Reduction Work Plans ("O. Reg.102/94") which requires educational institutions to conduct waste audits and prepare waste reduction plans on an annual basis if the location or campus has more than 350 full or part-time persons enrolled during the calendar year.</p>

III. PLANS TO REDUCE, REUSE AND RECYCLE WASTE

For each category of waste described in Part V of “Report of a Waste Audit” (on which this plan is based), explain what your plans are to Reduce, Reuse and Recycle the waste, including: 1) how the waste will be source separated at the establishment, and 2) the programs to reduce, reuse and recycle all source separated waste.

Waste Category (as stated in Part V of your “Report of a Waste Audit”)	Source Separation and 3Rs Program
Organics & Food Waste	<i>“Organics 3Rs Program”</i> <u>Reduce:</u> None <u>Reuse:</u> None <u>Recycle:</u> Staff/students will be reminded of existing recycling programs.
Yard Waste	<i>“Yard Waste 3Rs Program”</i> <u>Reduce:</u> None <u>Reuse:</u> None <u>Recycle:</u> Grounds staff will be reminded of existing recycling programs.
Scrap Wood	<i>“Scrap Wood 3Rs Program”</i> <u>Reduce:</u> None <u>Reuse:</u> None <u>Recycle:</u> Staff/students will be reminded of existing recycling programs.
Scrap Metal	<i>“Scrap Metal 3Rs Program”</i> <u>Reduce:</u> None <u>Reuse:</u> None <u>Recycle:</u> Staff/students will be reminded of existing recycling programs.
Animal Bedding	<i>“Animal Bedding 3Rs Program”</i> <u>Reduce:</u> None <u>Reuse:</u> None <u>Recycle:</u> Staff/students will be reminded of existing recycling programs.
Polystyrene	<i>“Polystyrene 3Rs Program”</i> <u>Reduce:</u> None <u>Reuse:</u> None <u>Recycle:</u> Staff/students will be reminded of existing recycling programs.
Mixed Containers	<i>“Mixed Containers 3Rs Program”</i> <u>Reduce:</u> Staff/students will be encouraged to use a reusable water bottle instead of purchasing a disposable plastic one. <u>Reuse:</u> None <u>Recycle:</u> Staff/students will be reminded of existing recycling programs.
Laboratory Glass and Plastic	<i>“Laboratory Glass and Plastic 3Rs Program”</i> <u>Reduce:</u> None <u>Reuse:</u> None <u>Recycle:</u> Staff/students will be reminded of existing recycling programs.
Amber Bottles	<i>“Amber Bottles 3Rs Program”</i> <u>Reduce:</u> None <u>Reuse:</u> None <u>Recycle:</u> Staff/students will be reminded of existing recycling programs.
Mixed Plastics	<i>“Mixed Plastics 3Rs Program”</i> <u>Reduce:</u> Staff/students will be encouraged to use a reusable water bottle instead of purchasing a disposable plastic one. <u>Reuse:</u> None <u>Recycle:</u> Staff/students will be reminded of existing recycling programs.
Coffee Cups	<i>“Coffee Cups 3Rs Program”</i> <u>Reduce:</u> Staff/students will be encouraged to use a travel mug instead of a paper cup. <u>Reuse:</u> None <u>Recycle:</u> Staff/students will be reminded of existing recycling programs.
Soil & Plants	<i>“Soil & Plants 3Rs Program”</i> <u>Reduce:</u> None <u>Reuse:</u> None <u>Recycle:</u> Grounds staff will be reminded of existing recycling programs.
Light Bulbs	<i>“Light Bulb 3Rs Program”</i> <u>Reduce:</u> None

	<p><u>Reuse:</u> None</p> <p><u>Recycle:</u> Staff/students will be reminded of existing recycling programs.</p>
E-waste	<p>"Ewaste 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> None</p> <p><u>Recycle:</u> Staff/students will be reminded of existing recycling programs.</p>
Printer Cartridges	<p>"Ewaste 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> None</p> <p><u>Recycle:</u> Staff/students will be reminded of existing recycling programs.</p>
Mixed Papers	<p>"Mixed Paper 3Rs Program"</p> <p><u>Reduce:</u> Staff/Students will be encouraged to print on both sides of paper to reduce the number of pages used.</p> <p><u>Reuse:</u> None</p> <p><u>Recycle:</u> Staff/students will be reminded of existing recycling programs.</p>
Paper Towels	<p>"Paper Towel 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> None</p> <p><u>Recycle:</u> Staff/students will be reminded of existing recycling programs.</p>
Cardboard	<p>"Cardboard 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> None</p> <p><u>Recycle:</u> Staff/students will be reminded of existing recycling programs.</p>
Shredded Paper	<p>"Shredded Paper 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> None</p> <p><u>Recycle:</u> Staff/students will be reminded of existing recycling programs.</p>
Pallets	<p>"Pallets 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> Receiving staff/students will be reminded of the existing reuse program.</p> <p><u>Recycle:</u> None.</p>
Asphalt	<p>"Asphalt 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> None</p> <p><u>Recycle:</u> Staff and contractors will be reminded of existing recycling programs.</p>
Stone, pavers & screening	<p>"Stone, Pavers & Screening 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> Staff and contractors will be reminded of existing recycling programs.</p> <p><u>Recycle:</u> None</p>
Concrete	<p>"Concrete 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> None</p> <p><u>Recycle:</u> Staff and contractors will be reminded of existing recycling programs.</p>
Clean fill	<p>"Clean Fill 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> None</p> <p><u>Recycle:</u> Staff and contractors will be reminded of existing recycling programs.</p>
Swap Shop - Out	<p>"Swap Shop 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> Staff/students will be reminded of existing recycling programs.</p> <p><u>Recycle:</u> None</p>
Swap Shop – In	<p>"Swap Shop 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> Staff/students will be reminded of existing recycling programs.</p> <p><u>Recycle:</u> None</p>
Campus Furniture	<p>"Campus Furniture 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> Staff/students will be reminded of existing recycling programs.</p> <p><u>Recycle:</u> None</p>
Batteries	<p>"Batteries 3Rs Program"</p> <p><u>Reduce:</u> None</p> <p><u>Reuse:</u> The use of rechargeable batteries will be encouraged.</p> <p><u>Recycle:</u> Staff/students will be reminded of existing recycling programs.</p>

Miscellaneous Recycling	<i>"Misc. 3Rs Program"</i> <u>Reduce:</u> None <u>Reuse:</u> None <u>Recycle:</u> Staff/students will be reminded of existing recycling programs.
Waste	All non-recyclable waste is sent to landfill, including catch basin material.

IV. RESPONSIBILITY FOR IMPLEMENTING THE WASTE REDUCTION WORK PLAN

Identify who is responsible for implementing the Waste Reduction Work Plan at your entity(ies). If more than one person is responsible for implementation, identify each person who is responsible and indicate the part of the Waste Reduction Work Plan that each person is responsible for implementing.		
Name of Person	Responsibility	Telephone #
Reno Strano	All UofT 3Rs Programs	416-946-5711
	(or will direct question/comment to	
	appropriate person)	

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V. TIMETABLE FOR IMPLEMENTING WASTE REDUCTION WORK PLAN

Provide a timetable indicating when each Source Separation and 3Rs program of the Waste Reduction Work Plan will be implemented.	
Source Separation and 3Rs Program	Schedule for Completion
Organics & Food Waste	<i>Organics 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Yard Waste	<i>Yard Wastes 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Scrap Wood	<i>Scrap Wood 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Scrap Metal	<i>Scrap Metal 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Animal Bedding	<i>Animal Bedding 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Polystyrene	<i>Polystyrene 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Mixed Containers	<i>Mixed Containers 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Laboratory Glass and Plastic	<i>Laboratory Glass and Plastic 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Amber Bottles	<i>Amber Bottles 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Mixed Plastics	<i>Mixed Plastics 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Coffee Cups	<i>Coffee Cups 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Soil & Plants	<i>Soil & Plants 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Light Bulbs	<i>Light Bulbs 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
E-waste	<i>Ewastes 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Printer Cartridges	<i>Printer Cartridges 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Mixed Papers	<i>Mixed Papers 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Paper Towels	<i>Paper Towels 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Cardboard	<i>Cardboard 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Shredded Paper	<i>Shredded Paper 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Pallets	<i>Pallets 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Asphalt	<i>Asphalt 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Stone, pavers & screening	<i>Stone, Pavers & Screening 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Concrete	<i>Concrete 3Rs program currently implemented. Promotion/enforcement may be</i>

	<i>beneficial to increase capture rate.</i>
Clean fill	<i>Clean Fill 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Swap Shop - Out	<i>Swap-Shop 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Swap Shop – In	<i>Swap-Shop 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Campus Furniture	<i>Campus Furniture 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Batteries	<i>Batteries 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>
Aero. Misc. pick ups	<i>Aero. Misc. pick-ups 3Rs program currently implemented. Promotion/enforcement may be beneficial to increase capture rate.</i>

VI. COMMUNICATION TO STAFF, CUSTOMERS, GUESTS AND VISITORS

<p>Explain how the Waste Reduction Work Plan will be communicated to employees, customers, tenants, guests/visitors and students:</p> <p>Increase awareness of recycling programs at the facility through staff/student/cleaner education programs. Such programs can include placement of posters in strategic locations around the building, and posting information regarding recycling, reuse, and reduction rates throughout the facility. Provide easy access to contact information for help or questions regarding the recycling programs. The recycling program should have as much consistency as possible throughout the entire campus.</p>
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VII. ESTIMATED WASTE PRODUCED BY MATERIAL TYPE AND THE PROJECTED AMOUNT

Material Categories (as stated in Part III)	Estimated Annual Waste Produced * (tonnes)	Name of Proposed 3Rs Program (as stated in Part III)	Projections to Reduce, Reuse or Recycle Waste (tonnes)			Estimated Annual Amount to be Diverted ** (%)
			Reduce	Reuse	Recycle	
Organics & Food Waste	1476.48	Organics 3Rs Program			1107.21	75%
Yard Waste	104.61	Yard Waste 3Rs Program			104.61	100%
Scrap Wood	169.21	Scrap Wood 3Rs Program			169.21	100%
Polystyrene	79.22	Polystyrene 3Rs Program			6.00	8%
Scrap Metal	98.96	Scrap Metal 3Rs Program			75.89	77%
Animal Bedding	94.85	Animal Bedding 3Rs Program			94.85	100%
Mixed Containers/LCBO/Beer Store Returnables	462.86	Mixed Containers 3Rs Program & LCBO/Beer Store 3Rs Program		13.47	253.01	58%
Laboratory Glass and Plastic	51.63	Laboratory Glass and Plastic 3Rs Program			33.95	66%
Amber Bottles	5.60	Amber Bottles 3Rs Program			5.60	100%
Coffee Cups	51.79	Coffee Cups 3Rs Program			11.00	21%
Soil & Plants	111.00	Soil & Plants 3Rs Program			111.00	100%
Light Bulbs	7.54	Light Bulb 3Rs Program			6.60	88%
Ewaste and Printer Cartridges	53.23	Ewaste 3Rs Program			52.27	98%
Mixed Papers (including shredded)	775.53	Mixed Paper & Shredded Paper 3Rs Programs			458.20	59%
Paper Towels	466.95	Paper Towel 3Rs Program			78.50	17%
Cardboard	240.18	Cardboard 3Rs Program			237.99	99%
Pallets	12.00	Pallets 3Rs Program		12.00		100%
Asphalt	0.00	Asphalt 3Rs Program			0.00	100%
Stone, pavers & screening	50.00	Stone, pavers & Screening 3Rs Program			50.00	100%
Concrete	60.00	Concrete 3Rs Program			60.00	100%
Clean fill	10.00	Clean Fill 3Rs Program			10.00	100%
Swap Shop - Out	34.50	Swap-Shop 3Rs Program		34.50		100%
Swap Shop – In	12.00	Swap-Shop 3Rs Program		12.00		100%
Campus Furniture	3.06	Campus Furniture 3Rs Program		3.06		100%
Batteries	6.33	Batteries 3Rs Program			2.32	37%
Miscellaneous 3R Programs	248.81	Miscellaneous 3Rs Program	114.40		134.41	100%

* Estimated Waste Produced = Waste Diverted (3Rs) + Waste Disposed

** Estimated Waste Diversion Rate = Amount of Waste Diverted (3Rs) ÷ Estimated Waste Produced x 100%

I hereby certify that the information provided in this Waste Reduction Work Plan is complete and correct.		
Signature of authorized official:	Title:	Date: