

# 2016 Toronto Litter Audit

## Summary Report

Prepared for  
The City of Toronto

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## EXECUTIVE SUMMARY

The City of Toronto (the City) contracted AET Group Inc. (AET) to conduct litter audits at 300 pre-selected locations within the public realm across the city. The audits were conducted from September 12<sup>th</sup> through September 22<sup>nd</sup>, 2016 with the purpose of assessing the composition and amount of litter present on Toronto streets.

During the study period, AET staff examined large and small litter within the 300 sites across the city of Toronto. The City has previously completed litter audits in 2002, 2004, 2005, 2006, 2012, and 2014. The methodology used in this year's audit was consistent with those of previous years. AET visually assessed the litter within these 300 locations and recorded the type, brand and size of litter. In addition, all recyclable large litter was collected and weighed at the end of the audit.

### Key findings from the **large litter** audits:

- The average amount of large litter has decreased by 48.9% since the first audit in 2002 (an average of 25 large litter items per site in 2002 compared to 13 in 2016);
- The average amount of large litter has increased from an average of 11 items per site in 2014 to 13 items per site in 2016;
- The total number of large litter items increased by 14.4% from 3,351 items in 2014 to 3,835 items in 2016;
- The number of sites with no large litter recorded increased from 9 sites in 2014 to 14 sites in 2016;
- The most commonly found item in the large litter audit was non-branded towels/napkins, representing nearly 14.9% of all large items audited; and,
- 375 different brands of litter were observed, with Tim Horton's items being the most common, accounting for 15.8% of all branded litter. Other top brand names include McDonald's at 7.4%, Nestle at 4.5% and TTC at 2.9%, respectively.

### Key findings from the **small litter** audits:

- The average amount of small litter has increased from an average of 10 items per site in 2014 to 12 items per site in 2016;
- The total number of small litter items increased by nearly 15.6% from 3,036 items in 2014 to 3,509 items in 2016; and,
- The most commonly found small litter item was gum, accounting for 25.4% of all small litter audited, followed by cigarette butts at 22.3%. Both of these items have been the most common small litter item in 2012, 2014 and 2016.

The following chart provides an overview of the trends in litter over time.



**Key findings from audit of all recyclable large litter:**

- A total of 12.21 kg of recyclable litter was collected from the 300 litter site locations across the city;
- Other paper (mixed fine paper, kraft paper, molded pulp, gable and aseptic containers) was the largest contributor to the recyclable litter, at 16.3%;
- Other large contributors include PET Beverage Bottles (15.4%), Corrugated Cardboard (15.4%), and Other Plastic Containers (9.6%); and,
- Boxboard represented 8.9% of the total recyclable litter found. Of that, 57% was cigarette packs and the remaining 43% was miscellaneous boxboard.

# 1.0 INTRODUCTION

## 1.1 Background

The City of Toronto (the City) contracted AET Group Inc. (AET) to conduct litter audits at 300 pre-selected locations within the public realm across the city. These sites can be seen below in Figure 1.1. The audits took place from September 12<sup>th</sup> through September 22<sup>nd</sup>, 2016 with the purpose of assessing the composition and amount of litter that was present on Toronto streets. The type of litter was classified into two size categories: large litter, which is equal to or larger than four square inches, and small litter, which is smaller than four square inches.

The City advocates that it is everyone’s responsibility to assure that public spaces are clear and clean of litter. The City has litter bins throughout the city with receptacles for garbage and recycling. Each bin also has a receptacle for cigarette butts.

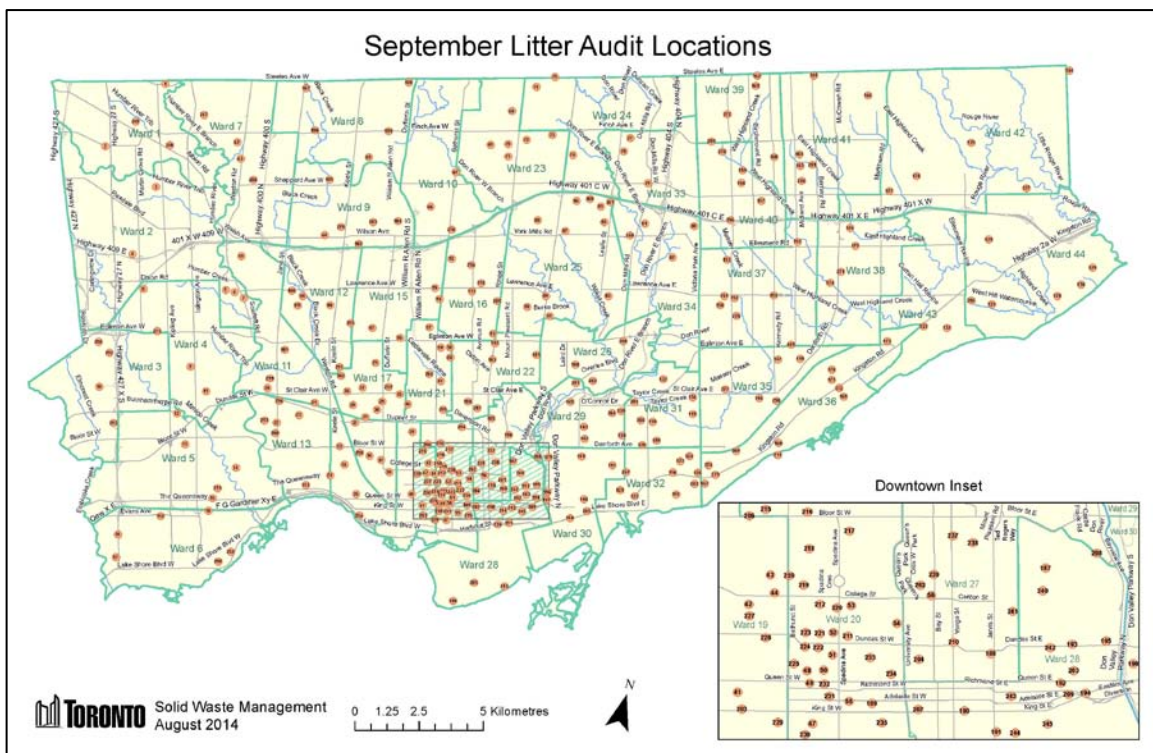


Figure 1.1 Toronto Litter Audit Site Locations



## 1.2 Objectives

The litter audits were intended to accomplish the following:

- A detailed analysis of large litter items, as well as brands of materials that fall within the survey areas;
- A detailed analysis of small litter items that fall within the smaller subsections of the survey areas; and,
- Analysis and reporting of the results with a focus on a comparison between previously completed audits.

## 2.0 METHODOLOGY

### 2.1 Litter Audit Summary

The litter audit was conducted by surveying 300 pre-selected locations which were determined by the City. In 2014, the City randomly selected two new sites to add to the list of randomly selected 298 sites audited in previous audits. The same sites were audited in 2016. There are at least a few sites in each ward, with a higher number in the densely populated downtown core. The audits were conducted from September 12<sup>th</sup> through September 22<sup>nd</sup>, 2016, around the same time of year that previous audits had been conducted. Three teams of two AET staff were assigned to complete the audit within the two week time period given by the City. AET staff was responsible for observing accumulated litter and recording data for the classification of large litter, branded litter, small litter and background information for each of the 300 sites. In addition, AET staff was responsible for collecting any recyclable large litter that fell within the litter sites. The methodology used in the 2016 litter audit was consistent with the methodology used in previous audits, as requested by the City. There are 87 large litter categories and 17 small litter categories. More information about methodology can be found in Appendix C.

### 2.2 Survey Data Collection

AET staff completed the Site Surveyor Form provided by the City for each of the assigned 300 sites. The following information was recorded on these forms:

- Date and time
- Audit team
- Size of audit area
- Type and characteristics of adjacent road

- General attributes of the area
- Visual rating of site

The forms can be found in Appendix D.

GPS coordinates taken with a handheld Garmin GPS unit were also recorded for each site. Data from the *Site Surveyor Forms* were transferred to an Excel worksheet. Site location details can be found in Appendix A.

### **2.3 Large Litter and Branded Litter Data Collection**

After the site was measured and information about the site was recorded, an AET staff member completed the *Large Items and Branded Litter Count* form. After two passes of the site were completed, information about the type and brands of litter (where applicable) present within the study area were recorded. This data was then transferred to an Excel worksheet. In the worksheet, the total amount of large litter at each site was calculated as the average of the two passes. Large litter collection data can be found in Appendix E, while branded litter collection data can be found in Appendix H.

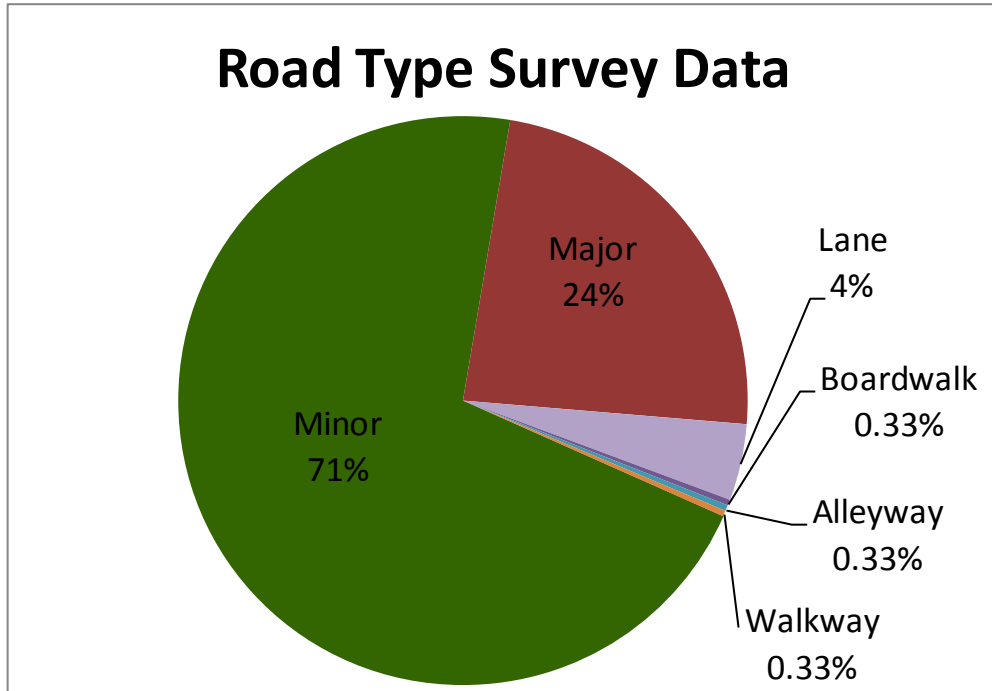
### **2.4 Small Litter Data Collection**

Results from the small litter audits were recorded on the Small Litter Count Sheet by AET staff after the site was measured, and information about the site was recorded. Data from each of the 300 sites was transferred into an Excel worksheet. Results can be found in Appendix F.

## **3.0 SUMMARY OF RESULTS**

### **3.1 Survey Results**

During the audits, AET staff collected information about the roads adjacent to the audit sites. As seen in Figure 3.1, 71% of the audit locations were on minor city streets, 24% of the audit locations were on major city streets, and the remaining 5% of the audits were conducted on laneways, boardwalks, alleyways, and walkways.



**Figure 3.1 Road Type Results – Survey Data**

AET staff completed a visual rating for each site based on the amount of litter visible. The sites were rated on a scale from 1-4, 1 representing the cleanest sites with less than 5 pieces of litter visible, and 4 representing the dirtiest sites with greater than 20 pieces of litter visible. Figure 3.2 illustrates the visual ratings of all audit sites.

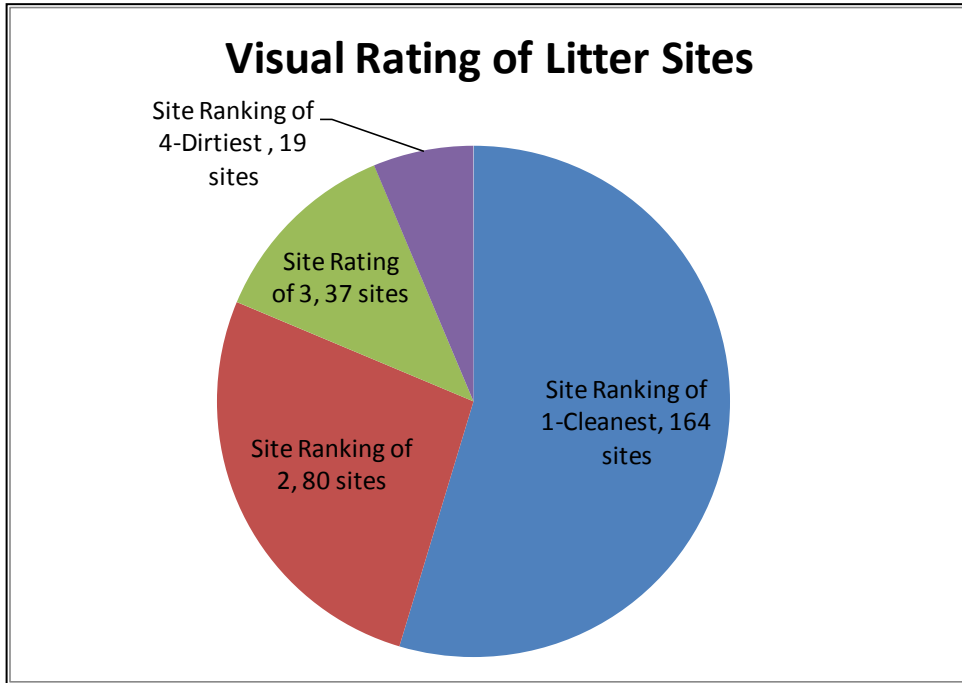
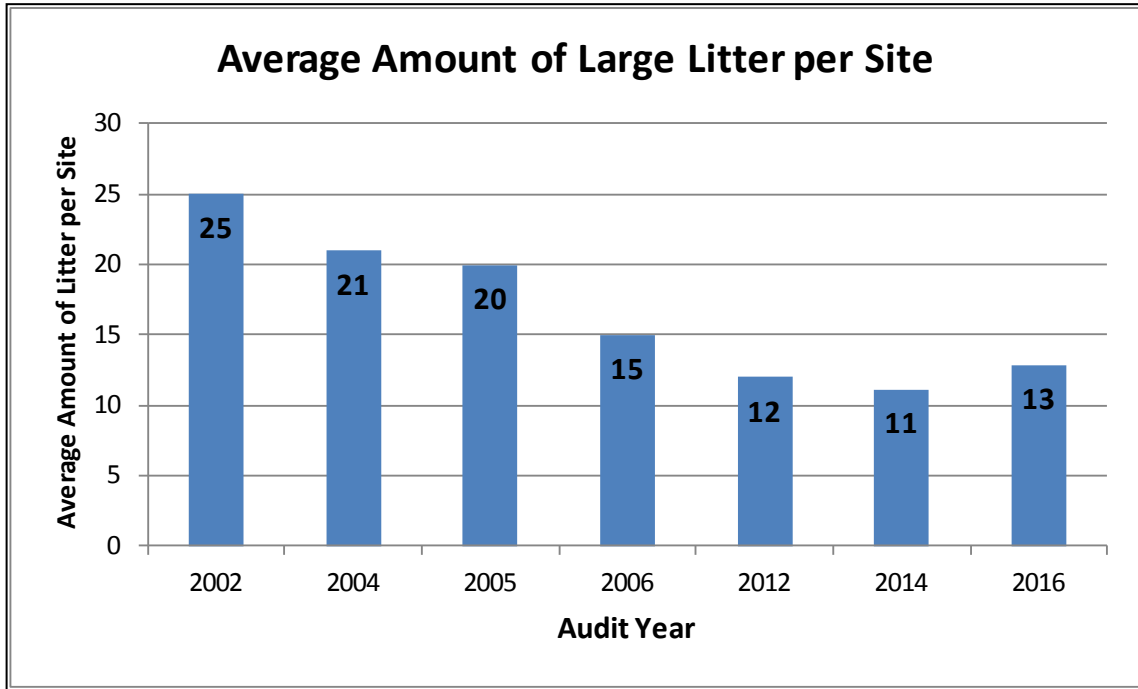


Figure 3.2 Visual Rating Litter Index

### 3.2 Large Litter Results

Large litter is any piece of litter within the site that is equal to or greater than 4 square inches. As shown in Figure 3.3, the average amount of large litter found at each site has been steadily decreasing since the first audit was conducted in 2002. For the most recent audit conducted in 2016, the average amount of large litter has increased to 13 pieces per site. This was a slight increase from the 2014 average of 11 pieces of large litter per site.



**Figure 3.3 Average Amount of Large Litter per Site**

The occurrence of the most common type of large litter, non-brand towels/ napkins, grew from 6.5% in 2012 to 14% in 2014 and then 15% in 2016. Cup lids, lid pieces and straws were the second most common type of large litter found, at 6% in 2016. This material originally represented 9% in 2012, which decreased to 5% in 2014 and then experienced a slight increase in 2016.

Table 3.1 illustrates the 20 most common items of large litter found during the 2016 audit. These items account for 76.5% of the large litter identified. The complete list of all the items identified during the large litter audit can be found in Appendix E.

**Table 3.1 Top 20 Large Litter Items**

#	Large Litter Items / Site #	2016 Count	2016 Percent	2014 Count	2014 Percent	2012 Count	2012 Percent
1	No Brand Name Towels / Napkins / Serviettes	571.5	14.9%	468	14.0%	223	6.5%
2	Cup Lids, Pieces Lids, Straws	246.5	6.4%	180	5.4%	292	8.5%
3	Receipts (business forms, bus transfers, etc)	236	6.2%	214.5	6.4%	90.5	2.6%
4	Plastic Packaging Other	235	6.1%	47	1.4%	91.5	2.7%
5	Tobacco Other (packs, matches, cellophane)	219	5.7%	147.5	4.4%	89.5	2.6%
6	Printed Material (newspapers, flyers, books etc.)	215.5	5.6%	178.5	5.3%	49	1.4%
7	Misc. Plastic	189	4.9%	266.5	8.0%	396.5	11.6%
8	Misc. Paper	113	2.9%	104.5	3.1%	736.5	21.5%
9	Snack Food Packaging	100	2.6%	50.5	1.5%	42	1.2%
10	Water (Plastic)	97.5	2.5%	100.5	3.0%	90.5	2.6%
11	Other Materials	94.5	2.5%	4	0.1%	0	0.0%
12	Paper Cups (Hot)	86.5	2.3%	93	2.8%	57	1.7%
13	Construction Debris	81.5	2.1%	85	2.5%	46	1.3%
14	Food / Other Organics	79.5	2.1%	123	3.7%	0	0.0%
15	Plastic Bags - Not Retail	67	1.7%	27	0.8%	30	0.9%
16	Paper Packaging Other	66.5	1.7%	32	1.0%	31	0.9%
17	Paperboard (Cereal Type)	64.5	1.7%	53	1.6%	27.5	0.8%
18	Plastic Wrap	62	1.6%	206.5	6.2%	79	2.3%
19	Soft Drink (Cans)	58	1.5%	47.5	1.4%	53	1.5%
20	Home Articles	51	1.3%	50	1.5%	100.5	2.9%
<b>Total Top 20</b>		<b>2,934.0</b>	<b>76.5%</b>	<b>2,478.5</b>	<b>74.0%</b>	<b>2,525.0</b>	<b>73.6%</b>
<b>Total - All Large Litter</b>		<b>3,835.0</b>	<b>100.0%</b>	<b>3,351.0</b>	<b>100.0%</b>	<b>3,432.5</b>	<b>100.0%</b>

### 3.2.1 Large Litter by Material

Items within the large litter categories are composed of different material types. These items were categorized based on their known composition, including: paper, plastic, composite (made of multiple materials), metal, glass and other. Figure 3.4 illustrates the most common material types of the 3,835 large litter items audited. Paper is the largest material category representing 41.5% of the materials audited. Plastic is the second largest material category at 31.1%. Composite is the third largest category representing 11.9% of the materials audited. The overall composition of materials found has very similar composition to the materials found in the 2014 audit.

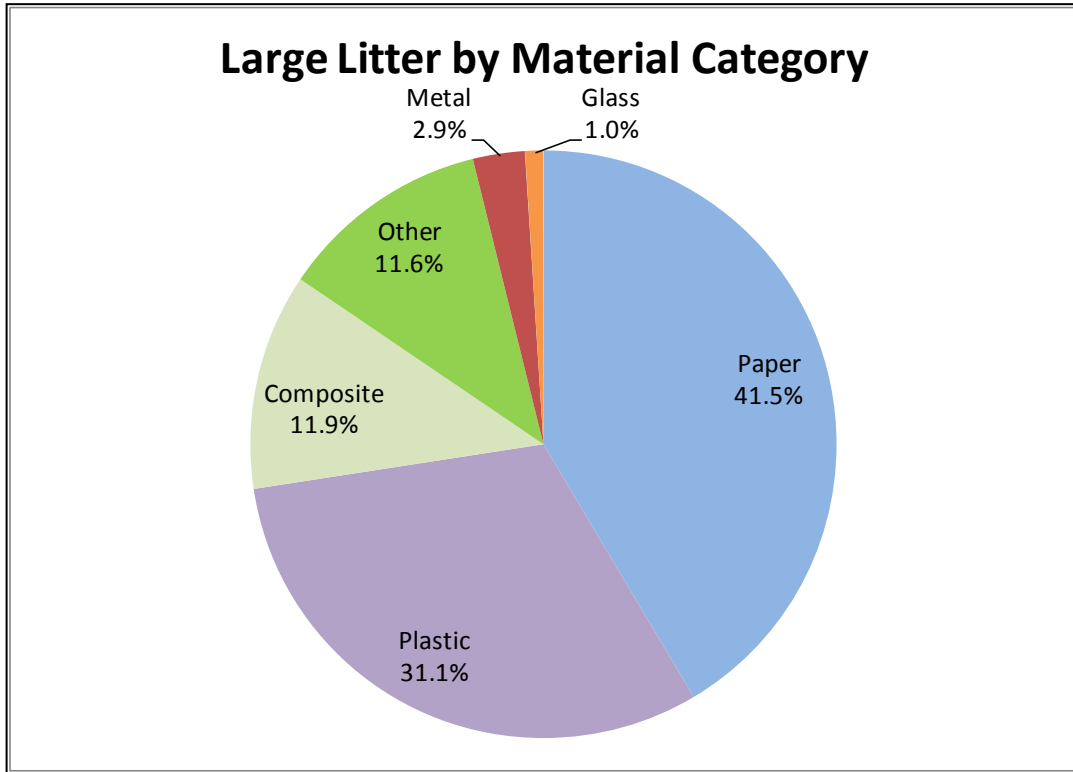


Figure 3.4 Large Litter by Material Category

### 3.2.2 Large Litter by Category

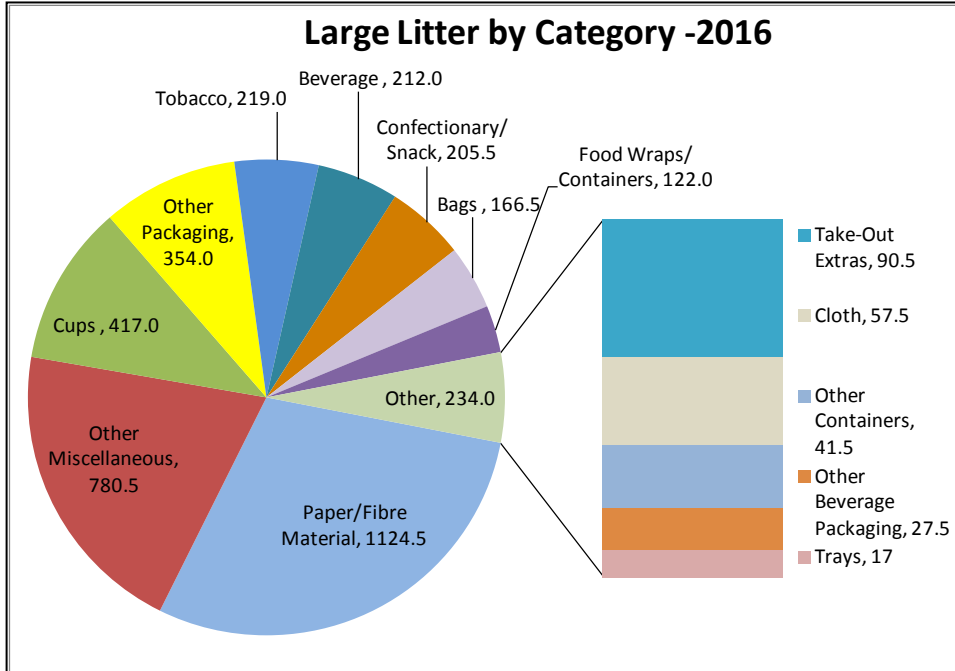
Table 3.2 below provides a summary of the total amount of large litter audited by each of the 14 categories used for the analysis of the large litter items. The three most common categories of litter audited in 2016 include paper/fibre material, other miscellaneous, and cups. Throughout the 2012, 2014 and 2016 audits these categories remained the top three. Other miscellaneous items include paper and plastic, as well as food, other organics, construction debris and vehicle/road debris. Other beverage packaging, other containers, and trays were the least common categories found in 2016, which was also the case in 2012 and 2014.

The paper/fibre material category has shown a steady increase from 2012 to 2016. The top contributors to this category in 2016 was non-brand towels/napkins (571.5 items), receipts (236 items) and printed material (215.5 items).

**Table 3.2 Large Litter by Category 2012, 2014 and 2016**

Survey Year	2016		2014		2012	
Category	Items	Percent	Items	Percent	Items	Percent
Paper/Fibre Material	1,124.5	29.3%	990.0	29.5%	432.0	12.6%
Other Miscellaneous	780.5	20.4%	754.0	22.5%	1,435.5	41.8%
Cups	417.0	10.9%	350.5	10.5%	467.0	13.6%
Food Wraps/ Containers	122.0	3.2%	273.0	8.1%	125.0	3.6%
Beverage	212.0	5.5%	208.0	6.2%	214.0	6.2%
Confectionary/ Snack	205.5	5.4%	203.5	6.1%	223.5	6.5%
Tobacco	219.0	5.7%	152.0	4.5%	111.5	3.2%
Other Packaging	354.0	9.2%	141.5	4.2%	168.0	4.9%
Bags	166.5	4.3%	117.0	3.5%	98.0	2.9%
Cloth	57.5	1.5%	55.5	1.7%	39.0	1.1%
Take-Out Extras	90.5	2.4%	48.0	1.4%	57.5	1.7%
Other Beverage Packaging	27.5	0.7%	26.0	0.8%	19.0	0.6%
Other Containers	41.5	1.1%	21.0	0.6%	37.5	1.1%
Trays	17.0	0.4%	11.0	0.3%	5.0	0.1%
<b>Total</b>	<b>3,835.0</b>	<b>100.0%</b>	<b>3,351.0</b>	<b>100.0%</b>	<b>3,432.5</b>	<b>100.0%</b>

Figures 3.5, 3.6 and 3.7 below provide a comparison of each of the categories in the Large Litter audit in 2016, 2014 and 2012, respectively.



**Figure 3.5 Large Litter by Category 2016**



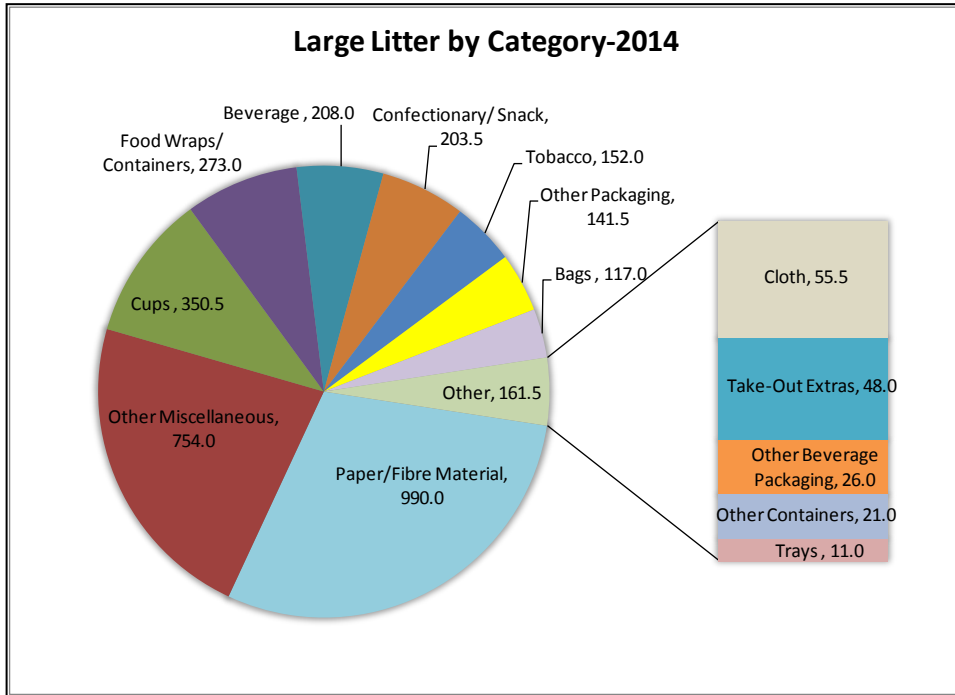


Figure 3.6 Large Litter by Category 2014

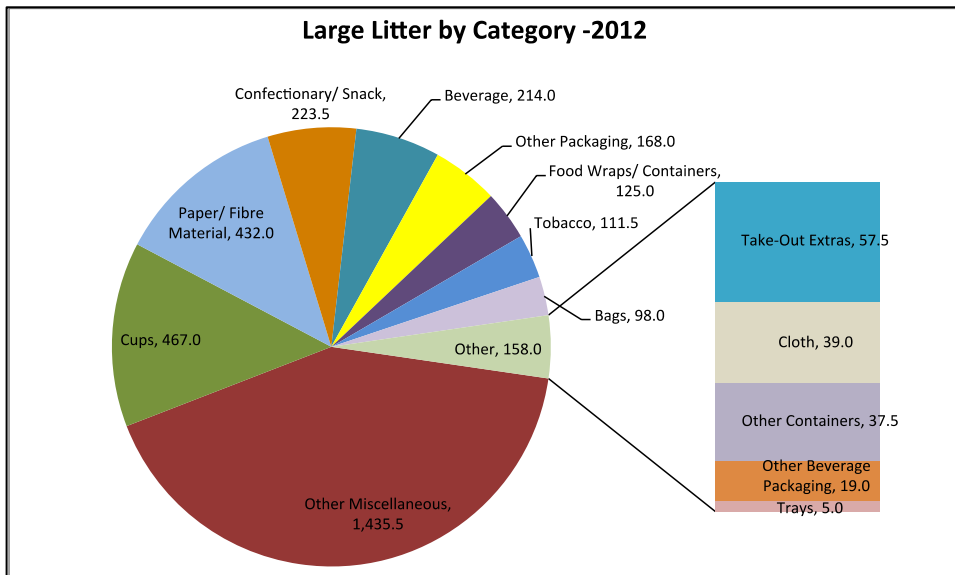


Figure 3.7 Large Litter by Category 2012

### 3.2.3 Large Litter by Sites

Tables 3.3, 3.4 and 3.5 below illustrate the 10 sites with the highest item counts for Large Litter in 2016, 2014 and 2012, respectively. In 2016, Cedarvale Ave. (Site #199) had the largest amount of large litter identified, amounting to 120 pieces. Common sites that have fell in the top 10 for large litter during 2016 and 2014 include sites located on Bond St. (Site #300), Halsey Ave. (Site #119) and Kennedy Rd. (Site #147).

**Table 3.3 Highest Ranking Sites for Large Litter 2016**

Site ID	Site #	Lg Litter	Street Name
221	199	120	Cedarvale Ave.
602	300	108.5	Bond St.
124	119	93	Halsey Ave.
4	4	86	Iron St.
153	147	72	Kennedy Rd.
150	144	66.5	Booth Ave.
333	242	54	Dundas St. E.
122	117	52	Walpole Ave.
25	20	51	St. Clair Ave. W
509	282	50.5	Algarve

**Table 3.4 Highest Ranking Sites for Large Litter 2014**

Site ID	Site #	Lg Litter	Street Name
602	300	86	Bond St.
124	119	67	Halsey Ave.
153	147	59	Kennedy Rd.
86	81	51.5	Don Mills Rd.
210	188	49	Mutual St.
409	255	48	Castlefield Ave
119	114	45	Butterick Rd.
402	249	43	Garfella Dr
155	149	42.5	Eglinton Ave. E
308	223	39.5	Hickory St.

**Table 3.5 Highest Ranking Sites for Large Litter 2012**

Site ID	Site #	Lg Litter	Street Name
515	288	103	Sheppard W
310	225	73	Eden PL
409	255	64	Castlefield Ave
259	210	55	Dundas St. W.
111	106	51	Finch Ave. W
413	259	50	Lippincott St
61	56	47	Grenville St.
151	145	45	Fernwood
96	91	42	Bayview Ave.
35	30	40	McFarland Ave.

\*It must be noted that Site #299 and #300 were not audited as a part of the 2012 audit.

### 3.2.4 Large Litter Statistical Tests

Statistical tests were conducted on the results of the large litter audit. The number of sites with no large litter decreased from 20 sites in 2012 to 9 sites in 2014. In 2016 there were a total of 14 sites that had no large litter. The numbers of sites that rank above, on and below the average number of items audited per site are very similar in 2012 and 2014 as seen in Table 3.6. However, the numbers have improved in 2016 despite the increase in large litter count. A total of 208 sites fell below the average; 4 sites had the average of 13 pieces per site and 88 sites were above average.

**Table 3.6 Site Ranking Distribution 2016, 2014, 2012**

Site Ranking	2016		2014		2012	
	# of Sites	Percent (%)	# of Sites	Percent (%)	# of Sites	Percent (%)
Above Average	88	29%	108	36%	109	37%
Average	4	1%	5	2%	0	0%
Below Average	208	69%	187	62%	189	63%
<b>Large Litter Average</b>	<b>13</b>		<b>11</b>		<b>12</b>	

### 3.3 Branded Litter Results

While completing the large litter audit, the auditors recorded the brand name of any item where the brand was visible. In 2016, the brand names of 1,156 individual items were recorded in the large litter audit. In total, 375 different brands of litter were identified.

Table 3.7 illustrates the brands that were identified most frequently. The most prevalent brand was Tim Horton's, with 183 items (15.8% of all of the branded litter found). The brand with the second largest contribution was McDonald's with 86 items recorded, representing 7.4% of the branded litter found. Nestle items was the third most common brand name found with 52 items identified, representing 4.5% of the materials recorded. Other top brand names identified include TTC (Toronto Transit Commission), Belmont cigarettes, Starbucks and du Maurier cigarettes. It must be noted that litter identified from fast food restaurants such as Tim Horton's, McDonald's and Starbucks often have several pieces of litter in the same area. An example of this would be a coffee cup that includes the paper cup, the lid and sometimes an additional sleeve. All of the brand names observed and recorded can be found in Appendix H.

**Table 3.7 Brand Name Large Litter Results 2016**

#	Brand Name	Total	Percent (%)
1	Tim Hortons	183	15.8%
2	McDonalds	86	7.4%
3	Nestle	52	4.5%
4	TTC	34	2.9%
5	Belmont	25	2.2%
6	Starbucks	24	2.1%
7	du Maurier	23	2.0%
8	Coca Cola	21	1.8%
9	Excel	19	1.6%
10	Real Canadian Water	12	1.0%
11	Pall Mall Tobacco	11	1.0%
12	Pepsi	11	1.0%
13	President's Choice	11	1.0%
14	Shoppers Drug Mart	11	1.0%
15	Canada Dry	9	0.8%
16	Health Canada	9	0.8%

### 3.4 Small Litter Results

There was a total of 3,509 pieces of Small Litter (< 4 square inches) audited by AET staff in the 2016 Small Litter audits for the city. This represents an increase in Small Litter of 15.6% since 2014.

Table 3.8 illustrates the differences in the audited small litter from 2014 to 2016. The results from the 2012 audit for small litter are also included in the table. As seen in the table, the occurrence of the majority of items has increased from 2014 to 2016. The items that experienced the largest increase are polystyrene packing materials (increase of 155.6%), other tobacco (increase of 144.4%) and bottle caps (112.5%). The top two small litter contributors have experienced a decrease from 2014 to 2016. Both chewing gum (decrease of 9.8%) and cigarette butts (decrease of 1.3%) have decreased from the 2014 audit.

**Table 3.8 Small Litter Results 2016, 2014 & 2012**

Small Litter: 2016, 2014 & 2012							
Item Description	2016		2014		2012		Change (2014-2016)
	Count	Percent	Count	Percent	Count	Percent	
Chewing gum (stuck on pavement)	893	25.4%	990	32.6%	590	28.9%	(9.8%)
Cigarette butts/debris	783	22.3%	793	26.1%	637	31.3%	(1.3%)
Paper	734	20.9%	514	16.9%	336	16.5%	42.8%
Glass	246	7.0%	144	4.7%	42	2.1%	70.8%
Hard plastic	227	6.5%	145	4.8%	100	4.9%	56.6%
Other material	171	4.9%	84	2.8%	15	0.7%	103.6%
Plastic film	106	3.0%	80	2.6%	93	4.6%	32.5%
Candy packaging and wrappers	86	2.5%	84	2.8%	92	4.5%	2.4%
Aluminum/foil debris	73	2.1%	64	2.1%	23	1.1%	14.1%
Metal (not aluminum)	55	1.6%	46	1.5%	17	0.8%	19.6%
Food & Other Organics	45	1.3%	34	1.1%	0	0.0%	32.4%
Polystyrene packing materials, ie. Foam peanuts	23	0.7%	9	0.3%	9	0.4%	155.6%
Other tobacco	22	0.6%	9	0.3%	15	0.7%	144.4%
Other polystyrene debris, ie. Poly foam pieces	22	0.6%	11	0.4%	42	2.1%	100.0%
Bottle caps	17	0.5%	8	0.3%	18	0.9%	112.5%
Straws	4	0.1%	10	0.3%	6	0.3%	(60.0%)
Rubber	2	0.1%	11	0.4%	3	0.1%	(81.8%)
<b>Total Small Litter</b>	<b>3,509</b>	<b>100.0%</b>	<b>3,036</b>	<b>100.0%</b>	<b>2,038</b>	<b>100.0%</b>	<b>15.6%</b>

### 3.4.1 Small Litter by Sites

Tables 3.9, 3.10 and 3.11 illustrate the 10 sites with the highest item counts for Small Litter in 2016, 2014 and 2012, respectively. In 2016, Spadina Ave. (Site #211) had the highest amount of small Litter with 94 pieces audited. In 2014 the site with the highest amount of small Litter was Queen St. W (Site #234) with 153 pieces. A total of 6 sites remained in the top ten for small litter from 2014 to 2016. These sites include two locations on Spadina Ave. (Site #211 & #220), Augusta Ave (Site #212), Bond St. (Site #300), Dundas St. W. (Site #210) and Bloor St. W. (Site #216). These sites are all located in the downtown core of Toronto and have a lot of pedestrian foot traffic.

**Table 3.9 Highest Ranking Sites for Small Litter 2016**

Site ID	Site #	Sm Litter	Street Name
260	211	94	Spadina Ave.
332	241	89	Gerrard St. E.
305	220	75	Spadina Ave.
261	212	66	Augusta Ave.
602	300	65	Bond St.
259	210	63	Dundas St. W.
301	216	63	Bloor St. W.
36	31	59	Dupont St.
515	288	55	Sheppard W
21	17	53	Browns Line

**Table 3.10 Highest Ranking Sites for Small Litter 2014**

Site ID	Site #	Sm Litter	Street Name
321	234	153	Queen St. W.
260	211	140	Spadina Ave.
261	212	103	Augusta Ave.
259	210	96	Dundas St. W.
92	87	81	York Mills Rd.
301	216	81	Bloor St. W.
305	220	69	Spadina Ave.
602	300	64	Bond St.
153	147	63	Kennedy Rd.
329	239	61	Grosvenor St.

**Table 3.11 Highest Ranking Sites for Small Litter 2012**

Site ID	Site #	Sm Litter	Street Name
300	215	54	Bloor St. W
408	254	47	Jameson Ave
111	106	40	Finch Ave. W
305	220	40	Spadina Ave.
149	143	37	Pape Ave
222	200	36	Don Mills Rd.
329	239	35	Grosvenor St.
124	119	33	Halsey Ave.
306	221	33	Kensington Ave.
158	152	30	Warden Ave.

\*It must be noted that Site #299 and #300 were not audited as a part of the 2012 audit.

### 3.4.2 Small Litter Statistical Tests

Statistical tests were conducted on the results of the small litter audit (Table 3.12). The number of sites with no small litter has decreased from 40 in 2012 and 2014 to 20 in 2016. The numbers of sites that rank above, on and below the average number of items audited per site are very similar in 2012, 2014 and 2016. The average number of small litter items per site was 7 in 2012, 10 in 2014 and 12 in 2016.

**Table 3.12 Site Ranking Distribution 2016, 2014 & 2012**

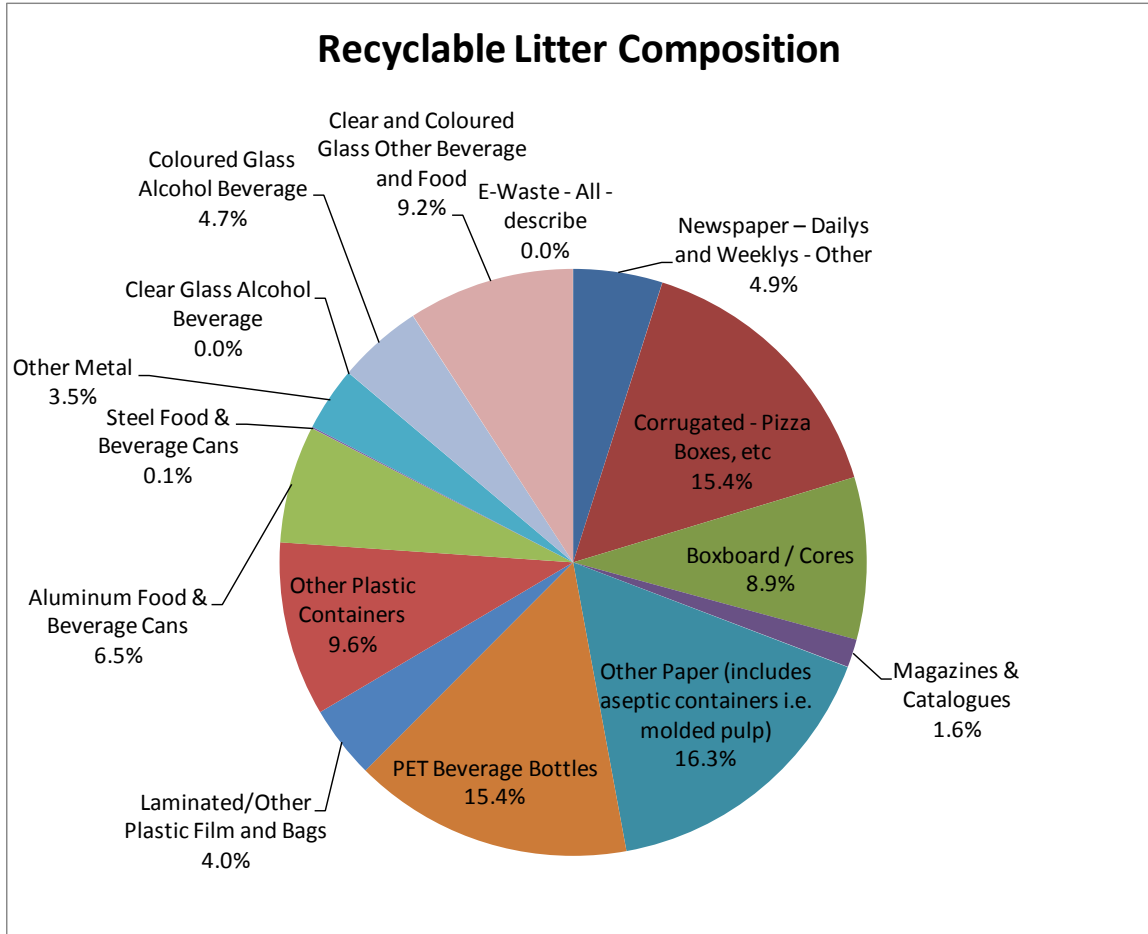
Site Ranking	2016		2014		2012	
	# of Sites	Percent (%)	# of Sites	Percent (%)	# of Sites	Percent (%)
Above Average	89	30%	78	26%	83	28%
Average	4	1%	7	2%	10	3%
Below Average	207	69%	215	72%	205	69%
<b>Small Litter Average</b>	<b>12</b>		<b>10</b>		<b>7</b>	

## 4.0 RECYCLABLE LITTER COLLECTED

Recyclable large litter was collected from each of the 300 sites after completing the survey forms and large litter count. At the end of the audit, AET staff sorted the recyclables into 15 categories. The weights and overall composition of the recyclables collected are displayed in Table 4.1 and Figure 4.1. It must be noted that there was no E-Waste found during the litter audit. A complete list of the sort results can be found in Appendix I.

**Table 4.1 Recyclable Litter Weights**

<b>Material Category</b>	<b>Weight (kg)</b>	<b>Percent (%)</b>
Newspaper – Dailys and Weeklys - Other	0.60	4.9%
Corrugated - Pizza Boxes, etc	1.88	15.4%
Boxboard / Cores	1.09	8.9%
Magazines & Catalogues	0.19	1.6%
Other Paper (includes aseptic containers i.e. molded pulp)	1.99	16.3%
PET Beverage Bottles	1.88	15.4%
Laminated/Other Plastic Film and Bags	0.49	4.0%
Other Plastic Containers	1.17	9.6%
Aluminum Food & Beverage Cans	0.79	6.5%
Steel Food & Beverage Cans	0.01	0.1%
Other Metal	0.43	3.5%
Clear Glass Alcohol Beverage	0.00	0.0%
Coloured Glass Alcohol Beverage	0.57	4.7%
Clear and Coloured Glass Other Beverage and Food	1.12	9.2%
E-Waste - All - describe	0.00	0.0%
<b>Total</b>	<b>12.21</b>	<b>100.0%</b>
<b>Average Weight of Recyclable Large Litter per Site</b>	<b>0.04</b>	



**Figure 4.1 Recyclable Litter Composition 2016**

Photographs of the sorted recyclable litter were taken upon completion of the audit. Figures 4.2 to 4.7 illustrate the most common recyclable materials found, by weight. It must be noted that of the boxboard collected and audited, a total of 57% of it was comprised of cigarette packs.





**Figure 4.2 Recyclable Other Paper**



**Figure 4.3 Recyclable PET Bottles**



**Figure 4.4 Recyclable Corrugated Cardboard**



**Figure 4.5 Recyclable Other Plastic Containers**



**Figure 4.6 Recyclable Boxboard/Cores**



**Figure 4.7 Recyclable Boxboard – specifically cigarette packs**

## 5.0 ADDITIONAL OBSERVATIONS

AET staff noted the presence of any City litter bins within a 200 meter radius from the site boundary. Figures 5.1 and 5.2 are examples of litter bins that were present within or near some of the 300 audited sites. Figure 5.1 shows the City's litter bins that have three separate receptacles: one for garbage and two for recycling. Some City bins only have one compartment for recyclables but resemble the same set-up. In addition, the City's litter bins have a small compartment for cigarette butts. Figure 5.2 illustrates litter bins that were commonly found in Toronto Parks. Of the 300 sites that were audited, 102 sites (34%) had litter bins present within a 200 meter radius, while 198 sites did not. Evidence of litter cleanup was seen at 12 of the 300 sites. This was in the form of mobile City street cleaner vacuum machines, City workers manually picking up litter and residents picking up litter in their neighborhoods.



**Figure 5.1 Street Litter Bin**



**Figure 5.2 Park Litter Bins**

The areas with City litter bins nearby had on average 14 pieces of Large Litter within the site, and the areas without a nearby City litter bin had an average of 12 pieces of large litter. This has remained consistent from 2014 to 2016. Litter bins were generally observed in areas with more public foot traffic. This could be the reason for the difference in the average amount of litter within areas with and without City litter bins.

AET staff also made note of any site characteristics that would affect the litter in the site and assist the City in locating certain sites of concern. All details for each site are provided in Appendix A. It was also noted by the City's representative that there are plans to change the City's litter bins to a new model. Figures 5.3 and 5.4 illustrate examples of large and small litter and their common catchpoints.



**Figure 5.3 Accumulated Large Litter along a sewer drain and a curb**



**Figure 5.4 Small Litter located on Spadina Ave. (Site #211)**

## 6.0 SITE RANKING AND ATTRIBUTES

AET staff ranked each of the 300 audited sites three different ways: 1) By the total number of large litter items that were audited within each site; 2) By the total number of small litter items that were audited within each site; and, 3) The total combined amount of large and small litter. Table 6.1 illustrates the sites that have the greatest amount of large and small litter combined. A full list of all 300 sites can be found in Appendix G.

**Table 6.1 Site Ranking for Combined Large and Small Litter**

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>	<i>Street Name</i>
602	300	173.5	Bond St.
221	199	136	Cedarvale Ave.
124	119	129	Halsey Ave.
4	4	110	Iron St.
305	220	106	Spadina Ave.
153	147	101	Kennedy Rd.
515	288	100	Sheppard W
260	211	99	Spadina Ave.
332	241	92.5	Gerrard St. E.
304	219	85	Lippincott St.

Attributes of the sites with the highest amount of combined small and large litter are provided in Table 6.2. Fast food restaurants, bench or resting structures and litter bins were present for 60% of the top ten sites, convenience stores and bus stops were present for 50% of the top ten sites, traffic lights or stop signs were present for 100% of the top ten sites and mobile food vendors were not present for any of the top 10 sites. There is an even split between major and minor streets with 50% each represented in the top 10 sites. Figure 6.1 illustrates the locations of the top ten littered sites across the city.

**Table 6.2 Top Ten Sites with the Highest Quantity of Large and Small Litter Items and Site Attributes**

Site ID	Site #	All Litter	Street Name	Fast Food	Conv Store	Mobile Food	Bench or Resting Structure	Bus Stop	Traffic Light/ Stop sign	Litter Bin	Road Type	Area
602	300	173.5	Bond St.	Y	N	N	Y	N	Y	Y	Minor	Com
221	199	136	Cedarvale Ave.	N	Y	N	N	N	Y	N	Minor	Res
124	119	129	Halsey Ave.	Y	Y	N	N	N	Y	N	Minor	Res-Com
4	4	110	Iron St.	N	N	N	Y	N	Y	N	Minor	Ind
305	220	106	Spadina Ave.	Y	Y	N	N	Y	Y	Y	Major	Com
153	147	101	Kennedy Rd.	Y	Y	N	Y	Y	Y	Y	Major	Res-Com
515	288	100	Sheppard W	N	N	N	N	Y	Y	N	Major	Com
260	211	99	Spadina Ave.	Y	Y	N	Y	Y	Y	Y	Major	Com
332	241	92.5	Gerrard St. E.	N	N	N	Y	N	Y	Y	Major	Res-Com-Park
304	219	85	Lippincott St.	Y	N	N	Y	Y	Y	Y	Minor	Res-Com

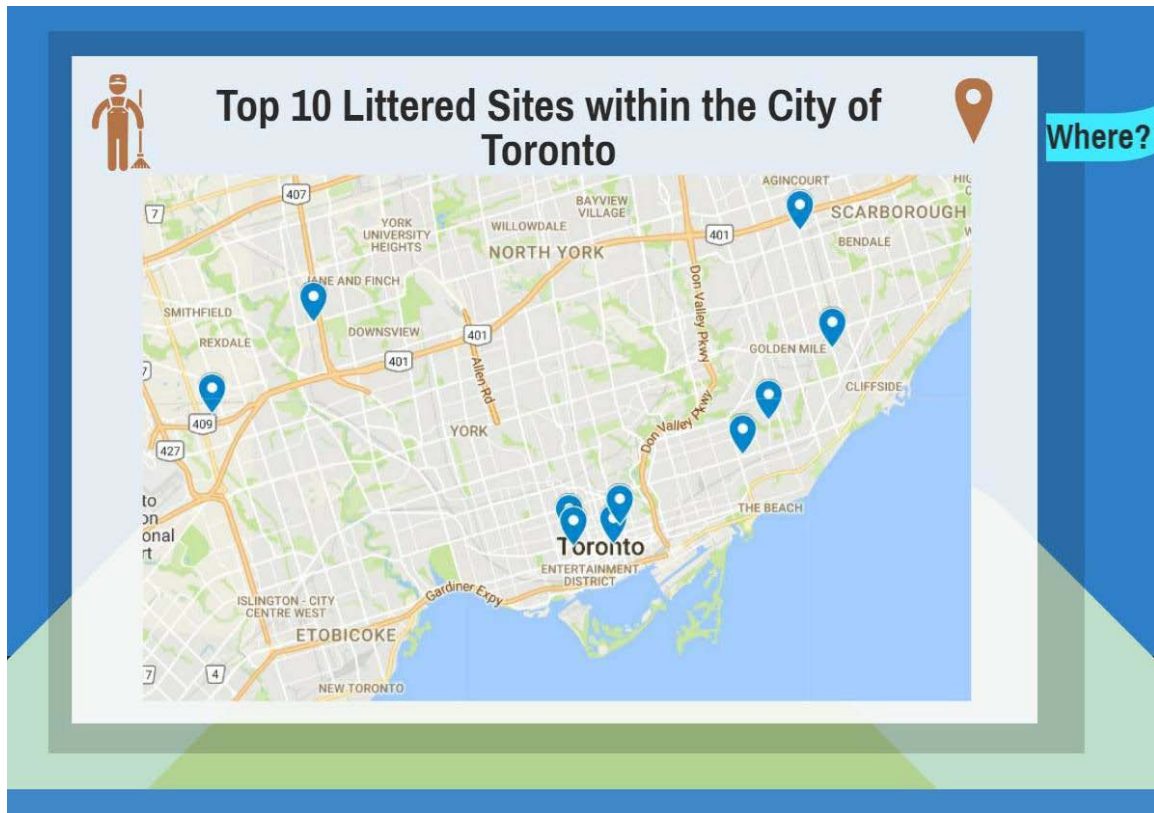


Figure 6.1 Map of Top 10 Littered Sites

## 7.0 LITTER ABATEMENT

The amount of large litter has increased from an average of 11 items per site in 2014 to 13 items per site in 2016. In examining this amount of litter observed on city streets AET staff consulted with City Waste Management Planning staff.

City staff provided the following information on litter operations. The earliest assignments each day are the mobile street and sidewalk vacuum equipment. There are 27 City owned vacuums and 29 contracted pieces of equipment that start as early as 4 a.m. Assigned routes in the downtown area include sidewalks, major and minor city streets, alleyways, and lanes. Within the past two years the use of mechanized sidewalk cleaning equipment has increased, and the technology of the equipment is improving.

There are 72 Bag & Broom routes assigned across Toronto. These are street cleaning staff using a broom and bag to clean routes that are assigned within a geographical area. These staff generally works from 6 a.m. until 2 p.m., with the objective of having the heaviest littered areas clean before 9 a.m. in the downtown core and between noon and

2 p.m. elsewhere. Reassigned resources have been deployed in the downtown area to assure the optimum litter removal in that busy part of the city. Litter Operations staff also operate 27 so called “Flying Squad Routes”. These are staff with a mobilized vehicle that is dispatched to particularly littered areas for specific clean-ups, as well as picking up from Bag & Broom routes.

Reassignment of resources appears to be making collection more effective. With effective collection comes less littered streets – building positive behaviour on the part of Toronto residents. Citizens are less likely to litter when the streets are clean. Another observation is that the number and location of litter bins has increased on city streets. Since 2011, the number of litter bins has increased by 66.7%. In 2011 we had 5,630 litter bins compared to the 9,389 we have now. Litter bins have been placed strategically along city sidewalks and TTC stops. This “opportunity to dispose of trash properly” appears to be supporting a reduction of litter on the streets.

In addition to manual and mechanical litter collection along streetscapes and roadways and the maintenance and collection of a network of public space litter and recycling bins, there are also annual City-wide inter-divisional and community clean-up events that occur every spring. To continue supporting litter reduction in the city, a Multi-Divisional Litter Working Group, comprised of Solid Waste Management Services, Transportation Services, Municipal Licensing and Standards and Economic Development and Culture, was established in 2013. The Group’s objective is to strengthen the City’s litter reduction strategies and identify new opportunities for joint initiatives, including a focus on cigarette butt litter. For example, Solid Waste Management Services worked with Toronto Public Health to include litter reduction messaging in new smoking By-law literature. Solid Waste Management Services also worked with Transportation Services, which maintains public space waste bins, on a pilot project measuring the effectiveness of decals in highlighting cigarette butt receptacles on public space bins. Economic Development and Culture is working with Business Improvement Areas on reducing cigarette butt litter, while Municipal Licensing and Standards is currently leading the review of Toronto Municipal Code Chapter 548, Littering and Dumping of Refuse, to identify potential amendments to further support litter reduction. In addition to all these initiatives, Solid Waste Management Services continues to raise public awareness about littering issues through its website, including tips and litter audit results, and ad campaigns.

## 8.0 CONCLUSION

AET Group Inc. conducted litter audits at 300 pre-selected locations within the public realm across the city. The audits were conducted from September 12<sup>th</sup> through September 22<sup>nd</sup>, 2016 with the purpose of assessing the composition and amount of litter that was present on Toronto streets. The type of litter was classified into two sizes: large litter, which is equal or larger than four square inches, and small litter, which is smaller than four square inches.

### 8.1 Large Litter Conclusions

Over the three-week study period, 300 sites within the city were audited for large litter. The key findings include:

- The average amount of large litter has increased from an average of 11 items per site in 2014 to 13 items per site in 2016;
- The average amount of large litter has decreased by 49% since the first audit in 2002 (an average of 25 large litter items per site in 2002 compared to 13 in 2016);
- The number of sites with no large litter recorded decreased from 20 sites in 2012 to 9 sites in 2014 and then increased to 14 sites in 2016; and,
- The most commonly found item in the large litter audit was non-branded towels/napkins, representing 14.9% of all large items audited. Other common littered items include cup lids, pieces and straws, at 6.4%, and receipts, at 6.2%, respectively.

### 8.2 Branded Litter Conclusions

While completing the Large Litter audit, the brand name of items was recorded when visible. The key findings include:

- Tim Horton's items were most common, representing 15.8% of all the branded litter that was recorded;
- Other common brands found include McDonald's (7.4%), Nestle (4.5%), TTC (2.9%) and Belmont cigarettes (2.2%); and,
- 375 different brands of litter were observed.

### 8.3 Small Litter Conclusions

Over the two-week study period, 300 sites within the city were audited for small litter. The key findings include:

- The average amount of small litter has increased from an average of 10 items per site in 2014 to 12 items per site in 2016; and,
- The most commonly found small litter item was gum which represents 25.4% of the small litter audited, followed by cigarette butts at 22.3%.

### 8.4 Recyclable Litter Summary

All litter classified as recyclable within the City's recycling program was collected and audited upon the completion of the 300 litter audits. The key findings include:

- Other paper (mixed fine paper, kraft paper, molded pulp, gable top and aseptic containers) was the largest material found, by weight, representing 16.3% of the total recyclable litter audited; and,
- PET beverage bottles (15.4%), corrugated cardboard (15.4%), and other plastic containers (9.6%) also made notable contributions to the types of litter.

## 9.0 RECOMMENDATIONS

### 9.1 Enhancing Current Litter Abatement Practices

- Litter abatement efforts should be focused on the areas with the greatest amount of large litter and combined litter (large and small litter). The 2016 litter audit results will identify areas of concern and will also provide an outlook on the current areas that the City cleanup crews service.
- Increase support for the current anti-cigarette butt and gum litter programs to reduce the amount of these litter items on Toronto streets.

### 9.2 Look into Current Waste Management Practices and Policy

- Similar to 2014, it was observed by AET staff that there were several areas where residential carts were on the sidewalk for collection.
- Residential garbage or recycling carts could be a source of litter in residential areas; litter could be falling out of carts during curbside collection or because of overflowing carts.



- Overflowing street litter bins could be another source of litter in public spaces.
- Consider the addition of cigarette butt disposal bins fixated on poles in the downtown core that are closer to eye level for pedestrians. Other cities have utilized these types of bins that have been accompanied by signage and the fine for littering.

### **9.3 Education and Awareness Campaigns**

- Campaigns on what goes into street litter bin receptacles, including cigarette butts, and notices on their location either online or where litter bins are nearby. Consider outreach options on social media pertaining to the current litter trends.
- Review and update signage on the public litter bins.
- Preventative education for schools and community groups, especially in areas that have the greatest amount of combined litter (large and small litter).
- Target Chewing Gum, Cigarette Butts, Napkins, Cup lids and straws, Receipts, and Plastic Packaging.
- Display anti-litter ads in the top produced branded litter areas such as Tim Horton's, McDonald's, and Nestle.

The key points to incorporate in anti-littering campaigns are summarized in Figure 9.1.



Figure 9.1 Key Points to Incorporate in Anti-Litter Campaigns

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## **Disclaimer**

AET Group Inc. makes no warranty and assumes no liability for the information contained in this report outlining the litter audit results. These results reflect measurements made over a onetime “snapshot” time period, meaning they only represent the conditions for the period of time in which they were collected. Seasonal variability, holidays and weather, among other factors, can affect the amount of litter within an area.

APPENDIX A

SITE LOCATION DETAILS

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed	Width 1	Width 2	Width 3	Street	St. Type	Lanes	Divided	Area	Grass Ht. (Inches)	Fast Food	Conv Store	Mobile Food	Bench or Resting Structure	Bus Stop	Traffic Light/ Stop sign	Litter Bin	Large Litter Count	Small Litter Count	Catch Pt	Litter Index	Cleanup	Details	Street	Coordinates	Updated Coordinates from Previous Survey	Comments	
1	1	1	16-Sep-16	9:10 AM	9:24 AM	A	Var	11	14	14	Markbrook Lane	Minor	2	N	Res	<3	N	N	N	N	N	Y	Y	N	18	16	Curb-Grass Line	1	N		Lane	N:43.758572 W:79.58778		Start at corner of Markbrook & Kipling
2	2	1	16-Sep-16	8:15 AM	8:25 AM	A	Var	16	17	17	Glenhollow Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	N	12.5	1	Curb-Grass Line	2	N		Ave	N:43.7305 W:79.60489		
3	3	1	22-Sep-16	8:29 AM	8:37 AM	B	Var	16.5	16.5	17	Amoro Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	7	4	Curb-Grass Line	2	N		Drive	N:43.723555 W:79.57171		back of school yard just west of site. Start at 22 going away from school	
4	4	2	16-Sep-16	1:27 PM	1:55 PM	C	Fixed	18	18	18	Iron St.	Minor	4	N	Ind	<3	N	N	N	Y	N	Y	N	86	24	Curb-Grass Line	4	N		Street	N: 43.70233 W:79.58192	*		
5	5	2	16-Sep-16	9:32 AM	9:50 AM	C	Var	2	2	2	Lockheed Blvd	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	2	4	Fence-Curb-Grass Line	1	N		Bld	N:43.699138 W:79.529015		bound by curb and residential property- no sidewalk. 2 single household construction zones along audit site.	
6	6	2	16-Sep-16	9:19 AM	9:26 AM	C	Var	8.5	11.5	11.5	Westona St.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	1	2	Hedge-Curb-Grass Line	1	N		Street	N:43.696943 W:79.52758		bound by curb and residential property- no sidewalk	
7	7	2	16-Sep-16	9:04 AM	9:12 AM	C	Var	7.5	9	9	Kingdom St.	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	3	11	Curb-Grass Line	1	N		Street	N:43.695104 W:79.518302		bound by curb and residential property- no sidewalk	
8	8	4	16-Sep-16	1:00 PM	1:12 PM	C	Var	10	17	18	Martin Grove Rd.	Major	4	N	Res	3 to 6	N	N	N	N	Y	Y	Y	4	4	Fence-Curb-Grass-Tree Line	2	N	3 divided city bins	Road	N:43.687444 W:79.56979		bound by curb, 18ft of grass between the curb and the sidewalk	
9	11	4	19-Sep-16	2:42 PM	2:50 PM	C	Var	10	8.5	5.5	Aylesbury Rd.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	1	1	Grass-Ditch	1	N		Road	N:43.66632 W:79.53811		bound by street and residential property-no sidewalk	
10	12	3	19-Sep-16	3:02 PM	3:18 PM	C	Var	10	10	10	Rathburn Rd.	Major	6	Y	Res-Com	<3	Y	Y	N	N	Y	Y	Y	5	12	Fence-Curb-Grass Line	1	N	2 divided city bins	Road	N: 43.65268 W:79.57359	*	bound by curb and residential property. Construction on south side, audited north side survey completed between residents of 3 & 4 Finchley Rd, directly in front of #4 Finchley	
11	13	4	19-Sep-16	2:20 PM	2:32 PM	C	Var	9	6	7	Finchley Rd.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	4	3	Grass-Ditch	1	N		Road	N:43.65917 W: 79.52646			
12	14	4	19-Sep-16	2:05 PM	2:11 PM	C	Var	4	4	2	Burnhamthorpe Pk Blvd	Minor	2	N	Res	<3	N	N	N	N	N	N	N	0	1	Grass-Line-Ditch	1	N		Bld	N: 43.65216 W:79.53876	*	survey completed in front of 59 Burnhamthorpe Park Blvd	
13	16	5	19-Sep-16	12:30 PM	12:43 PM	C	Fixed	18	18	18	Fieldway Rd.	Minor	2	N	Res-Com-Ind	3 to 6	N	N	N	N	N	Y	N	11	7	Curb-Grass Line	2	Y		Road	N: 43.64039 W: 79.52981	*	survey start point in front of Humberview Body Shop	
14	17	5	19-Sep-16	12:06 PM	12:20 PM	C	Var	5	5	3	Eldridge Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	3	1	Fence-Grass Line	1	N		Ave	N: 43.63636 W:79.50249	*	First house along audit site undergoing renovations	
15	18	5	19-Sep-16	11:30 AM	11:40 AM	C	Fixed	18	18	18	Rosewood Ave.	Minor	2	N	Com-Res	<3, over 6	N	N	N	N	N	Y	N	5	7	Ditch-Curb-Grass Line	1	N		Ave	N: 43.62567 W: 79.50966	*		
16	20	6	19-Sep-16	10:34 AM	10:43 AM	C	Var	11.5	14	14	Valermo Dr.	Minor	2	N	Res	over 6	N	N	N	N	N	Y	N	2	3	Fence-Curb-Grass Line	3	N		Drive	N:43.606189 W:79.5455			
17	21	6	19-Sep-16	10:10 AM	10:30 AM	C	Fixed	18	18	18	Browns Line	Major	4	N	Com-Res-Ind	<3	N	N	N	N	Y	N	N	16.5	53	Curb-Grass Line	1	N		Line	N:43.595244 W:79.542174			
18	23	5	19-Sep-16	11:18 AM	11:25 AM	C	Fixed	18	18	18	Canmotor Ave	Minor	2	N	Com-Ind	<3	N	N	N	N	N	N	N	9	5	Grass	2	N		Ave	N:43.62274 W:79.510662		potholes in driveways are catch points. Commercial/ warehouses on both sides, site used hydro poles as boundaries	
19	24	11	16-Sep-16	2:19 PM	2:30 PM	C	Var	17	17	18	Oak St.	Minor	2	N	Res	<3	N	N	N	Y	Y	Y	Y	3	18	Fence-Curb-Grass Line	1	N	1 divided city bin	Street	N:43.70900 W:79.52770		bound by curb & commercial property	
20	25	13	20-Sep-16	11:13 AM	11:36 AM	C	Var	18	5	18	St. Clair Ave. W	Major	4	N	Com-Res	3 to 6	Y	Y	N	Y	Y	Y	Y	51	12	Curb-Grass-Stone wall	3	N	1 divided city bin	Ave	N:43.66623 W:79.49905	*	Litter pieces jammed into stone wall gaps	
21	26	13	20-Sep-16	10:11 AM	10:26 AM	C	Var	6	6	6	Maria St.	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	3.5	2	Curb	1	N		Street	N: 43.66628 W:79.47476	*		
22	27	13	20-Sep-16	9:16 AM	9:24 AM	C	Var	6.5	6.5	6.5	Methuen Ave.	Minor	2	N	Com-Res	3 to 6	N	Y	N	N	Y	Y	N	3	6	Curb-Grass Line	1	N		Ave	N:43.655704 W:79.489239		Construction along sidewalk across street	
23	28	13	20-Sep-16	9:51 AM	10:05 AM	C	Var	10.5	8	8	Runnymede Rd.	Minor	2	N	Res-Com	over 6	Y	Y	N	N	Y	Y	Y	21	22	Curb-Barrier Walls	1	N		Road	N: 43.66041 W:79.48014	*	Audit site starts at bus stop, 3 divided city bins	
24	29	13	15-Sep-16	9:57 AM	10:15 AM	C	Fixed	18	18	18	Spring Rd.	Lane	2	N	Park	3 to 6	N	N	N	Y	N	Y	Y	3	6	Curb-Grass Line	1	N		Road	N:43.64356 W:79.45821		4 sets of waste & recycling carts	
25	30	17	20-Sep-16	1:21 PM	1:28 PM	B	Var	6	6	7	Naim Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	11.5	2	Curb-Stone walls	1	N		Ave	N:43.685551 W:79.452248		Large litter caught in clumps of weeds	
26	31	17	20-Sep-16	2:20 PM	2:45 PM	C	Var	18	18	7	Osler St.	Minor	4	Y	Com-Res	3 to 6	N	N	N	N	N	Y	N	41	8	Curb-Weeds	4	N		Street	N:43.673245 W:79.461405			
27	32	17	20-Sep-16	3:02 PM	3:25 PM	C	Var	15	18	9	Caledonia Rd.	Minor	2	N	Com-Res-Park	N/A	N	N	N	N	Y	Y	Y	32	17	Curb-Weeds	2	N		Road	N:43.67518 W:79.45477		4 divided city bins	
28	33	17	20-Sep-16	2:42 PM	3:00 PM	B	Var	6	6	6	Uxbridge Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	8	4	Curb	4	N		Ave	N:43.669104 W:79.456949			
29	34	17	22-Sep-16	9:49 AM	9:59 AM	C	Var	6.5	6.5	6.5	Ashburnham Rd.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	8	4	Curb-Hedge	2	N		Road	N:43.673132 W:79.443878			
30	35	17	22-Sep-16	10:03 AM	10:05 AM	C	Var	6	6	6	McFarland Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	11	4	Curb	2	N		Ave	N:43.67371 W:79.442423			
31	36	14	20-Sep-16	3:34 PM	3:47 PM	C	Var	18	11	11	Dupont St.	Major	2	N	Res-Com	N/A	N	N	N	Y	N	N	Y	3	59	Curb	1	N		Street	N:43.666352 W:79.449495		Divided city bin	
32	37	14	20-Sep-16	3:59 PM	4:20 PM	C	Var	6	6	7	Campbell Ave.	Minor	2	N	Res-Park	3 to 6	N	N	N	Y	N	Y	Y	6	7	Fence-Hedge-Curb-Grass Line	1	N		Ave	N:43.664234 W:79.449789		1 set of waste & recycling carts	
33	38	14	15-Sep-16	10:20 AM	10:30 AM	C	Var	8.5	7.5	8.5	Indian Trail	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	0	0	Curb-Grass Line	1	N		Trail	N:43.653918 W:79.45751			
34	39	14	15-Sep-16	10:40 AM	10:52 AM	C	Var	7.5	7.5	7.5	Sunnyside Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	5	3	Curb-Grass Line	1	N		Ave	N:43.648194 W:79.452721			
35	40	14	15-Sep-16	3:00 PM	3:18 PM	C	Var	18	12.5	16	Queen St. W.	Major	4	N	Com	N/A	N	Y	N	Y	Y	Y	Y	17	27	Curb	3	N	1 divided city bin	Street	N:43.63945 W:79.443317		curb to sidewalk, and curb to parking lot	
36	41	18	15-Sep-16	11:22 AM	11:37 AM	C	Var	7	7.5	7.5	Whytock Ave.	Minor	2	N	Com-Res	N/A	N	N	N	Y	N	Y	Y	11	4	Curb	3	N	1 set of park waste carts, 1 divided city bin	Ave	N:43.653728 W:79.442256		Construction at corner near audit site. Playground across the street	
37	42	18	14-Sep-16	8:40 AM	8:56 AM	C	Var	7	6	6	Muir Ave.	Minor	2	N	Res	N/A	N	N	N	N	Y	Y	N	17.5	3	Curb	3	N		Ave	N:43.653795 W:79.434432		two curbs	
38	43	18	14-Sep-16	9:15 AM	9:40 AM	C	Var	5	6	6	Macklem Ave.	Minor	1	N	Com-Res	N/A	N	N	N	N	N	Y	N	5.5	4	Curb	2	N		Ave	N:43.651596 W:79.431628		secondary curb is stairs/ garden walls	
39	44	19	14-Sep-16	8:44 AM	8:55 AM	A	Var	7.5	7.5	7	Pendrieth St.	Minor	2	N	Res	3 to 6	N	N	N	Y	N	Y	N	8	2	Fence-Curb-Driveway	2	N		Street	N:46.665974 W:79.425863			

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed	Width 1	Width 2	Width 3	Street	St. Type	Lanes	Divided	Area	Grass Ht. (Inches)	Fast Food	Conv Store	Mobile Food	Bench or Resting Structure	Bus Stop	Traffic Light/ Stop sign	Litter Bin	Large Litter Count	Small Litter Count	Catch Pt	Litter Index	Cleanup	Details	Street	Coordinates	Updated Coordinates from Previous Survey	Comments
40	45	19	14-Sep-16	3:20 PM	3:36 PM	C	Var	7	6.5	6.5	Crawford St.	Minor	2	N	Com-Res		N	N	N	N	N		Y	14	6	Curb	3	N		Street	N:43.645341 W:79.415732		1 divided city bin
41	46	19	13-Sep-16	9:01 AM	9:15 AM	A	Var	7	7	7	Stafford St.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	11	7	Fence-Curb-Grass Line	2	N		Street	N: 43.64375 W:79.41132	*	two curbs, and residential fences. Site starts at #57
42	47	19	14-Sep-16	11:00 AM	11:17 AM	C	Var	9	7	7	Mansfield Ave.	Minor	2	N	Com-Res	N/A	Y	N	N	N	N	Y	N	18.5	3	Fence-Curb	2	N		Ave	N: 43.65339 W:79.41368	*	school and park at intersection of Bellwoods ave & Mansfield Ave. Church across street from the park.
43	48	19	13-Sep-16	11:25 AM	11:43 AM	C	Var	9	8	8	Euclid Av.	Minor	2	N	Com-Res	3 to 6	N	N	N	N	N	N	Y	1	7	Fence-Hedge-Curb-Grass Line	1	N		Ave	N: 43.65735 W:79.41200	*	one way street. 2 divided city bins
44	49	19	13-Sep-16	12:33 PM	12:47 PM	C	Var	18	7	7	Palmerston Ave.	Minor	2	N	Res-Com	N/A	N	Y	N	N	Y	Y	Y	1	39	Fence-Curb	1	N		Ave	N: 43.65584 W:79.41010	*	2 divided city bins
45	50	17	14-Sep-16	2:40 PM	2:55 PM	A	Var	8	7	7	Benson Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	15	4	Fence-Hedge-Curb-Grass Line	1	N		Ave	N:43.678212 W:79.432872		
46	51	17	14-Sep-16	2:15 PM	2:22 PM	A	Var	6	6	6	Alberta Ave.	Minor	2	N	Res	<3	Y	N	N	Y	N	Y	Y	10	4	Curb-Property Line	1	Y	Individual collecting bottles on street	Ave	N:43.674865 W:79.431594		2 recycle, 1 garbage bin on corner
47	52	20	13-Sep-16	10:20 AM	10:29 AM	A	Var	18	17	17	Portland St.	Minor	2	N	Com-Res	3 to 6	N	N	N	Y	N	Y	Y	8	26	Curb	1	N	Large recycle & garbage bins across street	Street	N:43.642606 W:79.399201		Park across street
48	53	20	13-Sep-16	11:35 AM	11:51 AM	A	Var	8	8	8	Wolsley St.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	29	9	Fence-Curb	2	N		Street	N:43.648212 W:79.40232		
49	54	20	13-Sep-16	11:09 AM	11:18 AM	A	Var	18	8	18	Dennison Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	8	15	Fence-Curb	1	N		Ave	N:43.648244 W:79.401169		
50	55	20	12-Sep-16	4:19 PM	4:27 PM	A	Var	7	6	6	Augusta Ave.	Minor	2	N	Res	3 to 6	Y	N	N	N	N	Y	N	15.5	19	Fence-Curb	3	Y		Ave	N: 43.64899 W:79.39992	*	
51	56	20	13-Sep-16	1:55 PM	2:20 PM	A	Var	13	18	18	Napanee Ct.	Lane	1	N	Res	N/A	N	N	N	Y	N	N	N	9.5	16	Curb	1	N		Crescent	N:43.650732 W:79.399245		location is a laneway to housing co-op. Sidewalk of apartments, basketball courts near by
52	57	20	14-Sep-16	2:20 PM	2:40 PM	C	Var	18	17	18	Kensington Ave.	Lane	2	N	Res-Com	N/A	N	N	N	Y	N	Y	N	1	50	Hedge	1	N		Ave	N: 43.65327 W:79.40027	*	
53	58	20	13-Sep-16	3:30 PM	3:45 PM	C	Var	7.5	6	6	Glasgow St.	Lane	1	N	Res	N/A	N	N	N	Y	N	Y	N	9	8	Curb-Metal grates	2	N		Street	N: 43.65666 W:79.39832	*	across laneway from Glasgow St Parkette. There is a litter bin that is not labeled as a city litter bin. Residential Auto carts are out
54	59	20	15-Sep-16	12:14 PM	12:34 PM	C	Var	18	10	14	Elm St.	Minor	2	N	Com-Res	N/A	N	Y	N	Y	N	Y	N	4	26	Curb-Elevated side walk	2	N		Ave	N: 43.65623 W:79.38979	*	
55	60	20	12-Sep-16	3:05 PM	3:16 PM	A	Var	10	10	10	Oxley St.	Minor	2	N	Com	N/A	Y	N	N	N	N	Y	N	7	26	Curb	1	N		Street	N:43.646207 W:79.39473		
56	61	27	13-Sep-16	3:10 PM	3:22 PM	B	Var	10	18	18	Grenville St.	Minor	2	N	Com	N/A	Y	N	N	Y	Y	Y	Y	8.5	12	Curb	1	N	Litter bin on Bay, one in front of Police station	Street	N: 43.66172 W:79.38928	*	site located by Woman's College Hospital, moved site closer to intersection of Bay St and Grenville due to construction
57	62	20	20-Sep-16	9:46 AM	9:56 AM	B	Var	6.5	6.5	7	Old Park Rd.	Minor	2	Y	Res	3 to 6	N	N	N	N	N	Y	N	1	4	Curb-Grass Line	1	N		Road	N:43.702858 W:79.4732184		across from elementary school.
58	63	20	20-Sep-16	8:47 AM	9:06 AM	B	Var	2	2	2	Vesta Dr.	Minor	2	N	Res	N/A	N	N	N	N	N	N	N	1	3	Curb	1	N		Drive	N:43.701059 W:79.421058		
59	64	21	20-Sep-16	9:30 AM	9:35 AM	B	Var	2	2	2	Ava Rd.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	2	0	Curb	1	N		Road	N:43.697515 W:79.422191		
60	65	21	20-Sep-16	9:12 AM	9:22 AM	B	Var	9.5	9.5	10	Vesta Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	7	4	Curb-Grass Line	1	N		Drive	N:43.697692 W:79.419561		Construction on site
61	66	21	20-Sep-16	2:05 PM	2:16 PM	B	Var	5.9	5.9	4.9	Bathurst St.	Major	4	N	Res	N/A	Y	Y	N	N	Y	Y	N	7	4	Curb-Stone walls	1	N		Street	N:43.687363 W:79.420017		
62	67	7	16-Sep-16	1:10 PM	1:17 PM	A	Var	16	16	17	Windhill Cres.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	14	2	Curb-Grass Line	1	N		Crescent	N:43.746121 W:79.546494		Start in front of house #64
63	68	7	16-Sep-16	12:50 PM	12:55 PM	A	Var	2	2	2	Franson Cres.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	3	3	Curb-Grass Line	1	N		Crescent	N:43.740907 W:79.542726		bound by curb and residential property. 2 divided city bins
64	69	9	21-Sep-16	10:47 AM	11:00 AM	C	Var	14.5	14.5	14.5	Wilson Ave.	Major	4	N	Res	<3	N	Y	N	Y	Y	Y	Y	20	45	Curb-Grass Line	2	N		Ave	N:43.723595 W:79.493111		adjacent to large apartment complex and across Wilson from School Yard
65	70	8	21-Sep-16	10:22 AM	10:35 AM	C	Fixed	18	18	18	Tuscan Gate	Minor	2	N	Com	<3	N	N	N	N	Y	Y	N	36	12	Curb-Grass Line	2	N		Gate	N:43.754137 W:79.483471		
66	71	10	21-Sep-16	1:48 PM	1:54 PM	C	Var	2	2	2	Josephine Rd.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	3	0	Curb-Grass Line	1	N		Road	N: 43.74353 W:79.44755	*	Public litter bin in front of synagogue
67	72	10	21-Sep-16	2:03 PM	2:12 PM	C	Var	2	2	2	Heaton St.	Minor	2	N	Res-Ind	3 to 6	N	N	N	Y	N	Y	N	4	1	Curb-Grass Line	1	N		Street	N:43.75766 W:79.440932		along side a congregation and has commercial complex to south west
68	73	23	16-Sep-16	11:40 AM	11:50 AM	B	Var	2	2	2	Newtonbrook Blvd.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	10	2	Fence-Hedge-Curb-Grass	1	N		Bld	N:43.483738 W:79.423247		
69	74	23	16-Sep-16	11:15 AM	11:31 AM	B	Var	17	17	13	Churchill Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	37	6	Curb-Grass Line	2	N		Ave	N:43.770336 W:79.42859		
70	75	23	16-Sep-16	11:01 AM	11:10 AM	B	Var	8.5	8.5	8.5	Tamworth Rd.	Minor	2	N	Res	over 6	N	N	N	N	N	Y	N	7	1	Curb-Grass Line	1	N		Road	N:43.772356 W:79.420428		
71	76	23	16-Sep-16	10:45 AM	10:56 AM	B	Var	18	18	10	Tamworth Rd.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	3.5	6	Hedge-Curb-Grass Line	1	N		Road	N:43.768176 W:79.418767		2 Litter bins across street on Northtown Way
72	77	23	16-Sep-16	10:20 AM	10:34 AM	B	Fixed	18	18	18	Doris Ave.	Walkway	4	N	Res	3 to 6	N	Y	N	N	N	Y	Y	18	22	Curb-Grass-Tree Line	2	N		Ave	N:43.775581 W:79.412541		Park Walkway
73	78	23	16-Sep-16	9:58 AM	10:04 AM	B	Var	2	2	2	Byng Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	9	1	Curb	1	N		Ave	N:43.779743 W:79.401193		no sidewalk on site location, but one is present across the street
74	79	24	16-Sep-16	11:58 AM	12:09 PM	B	Fixed	18	18	18	Dumont St.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	20	7	Curb-Grass Line	1	N		Street	N:43.794329 W:79.415154		
75	80	24	16-Sep-16	12:22 PM	12:29 PM	B	Var	2	2	2	Michigan Dr.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	6.5	1	Curb	1	N		Drive	N:43.799558 W:79.407814		

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed	Width 1	Width 2	Width 3	Street	St. Type	Lanes	Divided	Area	Grass Ht. (Inches)	Fast Food	Conv Store	Mobile Food	Bench or Resting Structure	Bus Stop	Traffic Light/ Stop sign	Litter Bin	Large Litter Count	Small Litter Count	Catch Pt	Litter Index	Cleanup	Details	Street	Coordinates	Updated Coordinates from Previous Survey	Comments	
76	81	24	16-Sep-16	9:42 AM	9:50 AM	B	Var	2	2	2	Wycliffe Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	4	4	Curb	1	N		Ave	N:43.775047 W:79.388901		new house being build across the street from section 1 of small litter survey. No sidewalks along the site	
77	82	33	16-Sep-16	7:56 AM	8:08 AM	B	Var	17.5	16	10	Cobblestone St.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	3	0	Curb-Grass Line	1	N		Street	N:43.786345 W:79.364541		Litter bin at bus stop on corner	
78	83	33	16-Sep-16	8:30 AM	8:50 AM	B	Fixed	18	18	18	Leslie St.	Major	4	N	Res	over 6	N	N	N	N	Y	Y	Y	35.5	11	Curb-Grass Line	4	N		Street	N:43.781306 W:79.365762			
79	84	33	22-Sep-16	1:20 PM	1:33 PM	B	Var	17	17	16.5	George Henry Blvd.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	3	3	Curb-Grass Line	1	N		Bld	N:43.773289 W:79.348297		Start at 99, head towards Don Mills rd	
80	85	34	21-Sep-16	9:03 AM	9:17 AM	B	Var	16	18	18	Roywood Dr.	Minor	2	N	Res	over 6	N	N	N	N	N	Y	N	25	8	Fence-Hedge-Curb-Grass Line	3	N		Drive	N:43.764512 W:79.323616			
81	86	34	21-Sep-16	2:06 PM	2:21 PM	B	Fixed	18	18	18	Don Mills Rd.	Major	6	Y	Res	3 to 6	N	N	N	Y	Y	Y	Y	49	14	Curb-Grass Line	3	N		Road	N: 43.76163 W:79.34708	*	4 litter bins within sight of the intersection of Don Mills Rd	
82	87	34	21-Sep-16	9:30 AM	9:42 AM	B	Var	17	17	17	Aldenhams Cres.	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	7	3	Curb-Grass Line	2	N		Crescent	N: 43.75004 W:79.32938	*	Catwalk to parkland within survey area (part of school route)	
83	88	25	19-Sep-16	9:04 AM	9:12 AM	B	Var	3	3	3	Tottenham Rd.	Minor	2	N	Res	N/A	N	N	N	N	N	N	N	0	0	Curb-Grass Line	1	N		Road	N: 43.73092 W:79.35318	*		
84	89	25	21-Sep-16	12:25 PM	12:32 PM	B	Var	17	17	17	Riderwood Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	N	7	2	Curb-Grass Line	2	N		Drive	N:43.75534 W:79.36512	*	Start south side heading west just past Orchid
85	90	25	21-Sep-16	12:00 PM	12:05 PM	B	Var	16	16	16	Ealing Dr.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	0	4	Curb-Grass Line	1	N		Drive	N: 43.76104 W:79.36694	*		
86	91	25	21-Sep-16	11:19 AM	11:27 AM	B	Var	2	2	2	Wimpole Dr.	Minor	2	N	Res	N/A	N	N	N	N	N	N	N	11	5	Curb-Pylons	2	N		Drive	N: 43.76035 W:79.38058	*	Study area on south side. Construction on both sides	
87	92	25	21-Sep-16	10:54 AM	11:05 AM	B	Fixed	18	18	18	York Mills Rd.	Major	4	N	Res-Park	3 to 6	N	N	N	N	N	Y	N	8.5	16	Curb-Grass Line-Tree Line	1	N		Road	N: 43.74873 W:79.38256	*		
88	93	25	21-Sep-16	10:33 AM	10:45 AM	B	Var	17	16	17	Danville Dr.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	12.5	5	Curb-Grass Line	2	N		Drive	N:43.7496 W:79.396405		Adjacent construction site	
89	94	25	19-Sep-16	9:37 AM	10:00 AM	B	Var	18	18	8	Bayview Ave	Major	4	N	Res	N/A	N	N	N	Y	Y	Y	Y	20	8	Curb-Grass Line	1	N	Bin beside bus stop, one along sidewalk	Ave	N:43.72791 W:79.38358		site is more on Lawrence, adjacent to intersection and school	
90	95	25	21-Sep-16	10:10 AM	10:18 AM	B	Var	2	2	2	Stratford Cres.	Minor	2	N	Res	N/A	N	N	N	N	N	N	N	3	0	Curb	1	N		Cres	N:43.720241 W:79.385692		Construction on street	
91	96	25	19-Sep-16	10:17 AM	10:30 AM	B	Var	6	6.5	6	Bayview Ave.	Major	4	N	Res	N/A	N	N	N	N	Y	Y	Y	19.5	8	Curb-Grass Line	2	N		Ave	N:43.720016 W:79.378496		large health centre north east of site, park and trail at south end of site. Near Blythwood and across street	
92	97	25	21-Sep-16	3:03 PM	3:12 PM	C	Var	7	7	7	Deloraine Ave.	Minor	2	N	Com-Res	3 to 6	Y	N	N	Y	Y	Y	Y	1	8	Hedge-Curb-Grass Line	1	N		Ave	N:43.773397 W:79.40466		2 divided city bins	
93	98	16	19-Sep-16	11:10 AM	11:20 AM	B	Var	8	8	8	Henning Ave.	Minor	2	N	Res	N/A	N	N	N	Y	Y	Y	N	12	3	Curb-Grass-Brick wall	2	N		Ave	N:43.70689 W:79.401692			
94	99	15	20-Sep-16	10:05 AM	10:20 AM	B	Var	14	14	15	Glenmount Ave.	Minor	2	N	Res	over 6	N	N	N	N	N	Y	N	27	9	Fence-Hedge-Curb-Grass Line	3	N		Ave	N:43.713307 W:79.431306			
95	100	15	20-Sep-16	10:29 AM	10:45 AM	B	Var	2	2	2	Dalemount Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	21.5	2	Curb-Construction Trailer	4	N	Construction trailer, cars parked for length of site	Ave	N:43.71669 W:79.434589		school located on the north west corner of Glenmont and Fairholme (Across Fairholme from site)	
96	101	15	20-Sep-16	1:00 PM	1:13 PM	B	Var	6.5	6.5	7.5	lanark Ave.	Minor	2	N	Res	N/A	N	Y	N	N	N	Y	N	7.5	9	Hedge-Curb-Stone wall	1	N		Ave	N:43.696401 W:79.444255		school located across Gelnholme from site	
97	102	15	20-Sep-16	12:40 PM	12:52 PM	B	Var	6.5	7	6.5	Ronald Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	3	1	Curb-Grass Line	1	N		Ave	N:43.697006 W:79.458551			
98	103	12	20-Sep-16	11:40 AM	11:51 AM	B	Var	7.5	7.5	7.5	Amesbury Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	5.5	3	Fence-Hedge-Curb-Grass Line	2	N		Drive	N:43.700463 W:79.481185			
99	104	12	16-Sep-16	8:25 AM	8:37 AM	C	Fixed	18	18	18	Brookhaven Dr.	Minor	2	N	Res-School (Inst)	3 to 6	N	N	N	N	N	Y	N	15	9	Fence-Curb-Grass Line	3	N		Drive	N:43.700807 W:79.495005		Audit site alongside fence of school playground	
100	105	12	16-Sep-16	8:41 AM	8:55 AM	C	Fixed	18	18	18	Thurisdale Ave.	Minor	2	N	Res-School (Inst)	3 to 6	N	N	N	N	N	Y	N	18	14	Fence-Curb-Grass Line	3	N		Ave	N:43.701581 W:79.500824		Audit site alongside fence of school playground	
101	106	12	20-Sep-16	12:01 PM	12:14 PM	C	Var	7.5	7.5	7.5	Lampton Ave	Minor	2	N	Res	over 6	N	N	N	N	N	N	N	14	14	Hedge-Curb	2	N		Ave	N:43.68112 W:79.49635	*	residential auto carts along survey area	
102	107	9	21-Sep-16	11:36 AM	11:43 AM	C	Var	2	2	2	Cornelius Pkwy.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	10	5	Curb-Grass Line	1	N		Parkway	N:43.725439 W:79.476947			
103	108	9	21-Sep-16	1:13 PM	1:20 PM	C	Var	9	10	10	Murray Rd.	Minor	2	N	Res-Ind	3 to 6	N	N	N	N	N	N	N	0	14	Curb-Grass Line	1	N		Road	N:43.73271 W:79.472594		across Piewes rd from Toronto Transportation Services	
104	109	9	21-Sep-16	1:27 PM	1:37 PM	C	Fixed	18	18	18	Beffort Rd.	Major	2	N	Res	3 to 6	N	N	N	N	N	N	N	8	2	Curb-Grass Line	1	N		Road	N: 43.73549 W:79.46059	*	adjacent to large empty lot for industrial property	
105	110	9	16-Sep-16	11:37 AM	11:50 AM	A	Fixed	18	18	18	Sheppard Ave. W	Major	4	N	Res	<3	N	N	N	Y	Y	Y	Y	26	26	Curb-Grass Line	2	N		Ave	N:43.742124 W:79.498615		Park at end of Clubhouse Court. Start at walkway	
106	111	8	16-Sep-16	10:07 AM	11:20 AM	A	Fixed	18	18	18	Finch Ave. W	Major	4	N	Com-Res	<3	Y	Y	N	Y	Y	Y	Y	21	48	Curb-Grass Line	3	N		Ave	N:43.757832 W:79.512107		adjacent to several apartment buildings	
107	112	8	16-Sep-16	10:13 AM	10:30 AM	A	Fixed	18	18	18	Jane St.	Major	4	N	Res	<3	N	Y	N	Y	Y	Y	Y	27	22	Curb-Grass Line	4	N	City bin with pedal; garbage, recycling, cigarettes	Street	N:43.771125 W:79.521855			
108	113	8	21-Sep-16	9:31 AM	9:40 AM	C	Var	2	2	2	Magnetic Dr.	Minor	2	N	Com	<3	Y	N	N	N	N	N	N	5	3	Curb-Grass Line	1	N		Dr.	N:43.66427 W:79.44927			
109	114	8	21-Sep-16	9:56 AM	10:13 AM	C	Fixed	18	18	18	Chesswood Dr.	Major	2	N	Com	<3	N	N	N	N	Y	N	N	10	27	Curb-Grass Line	1	N		Dr.	N:43.764824 W:79.477692			
110	115	16	22-Sep-16	9:55 AM	10:05 AM	B	Var	9.5	9.5	18	Lawrence Ave. W	Major	4	N	Res	N/A	Y	Y	N	N	Y	Y	13	14	Fence-Curb-Grass Line	3	N		Ave	N:43.722873 W:79.414069		site across from secondary school lot and adjacent to shelter and medical clinic. parking lot. Start at east end of clinic heading west		
111	116	12	16-Sep-16	8:13 AM	8:20 AM	C	Fixed	18	18	18	Tretheway Dr	Major	4	N	Res	<3	N	N	N	N	Y	Y	Y	6	3	Fence-Curb-Grass Line	1	N	1 divided city bin	Drive	N:43.63697 W:79.43589			

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed	Width 1	Width 2	Width 3	Street	St. Type	Lanes	Divided	Area	Grass Ht. (Inches)	Fast Food	Conv Store	Mobile Food	Bench or Resting Structure	Bus Stop	Traffic Light/ Stop sign	Litter Bin	Large Litter Count	Small Litter Count	Catch Pt	Litter Index	Cleanup	Details	Street	Coordinates	Updated Coordinates from Previous Survey	Comments
112	117	16	22-Sep-16	9:38 AM	9:48 AM	B	Var	7.5	10.5	8.5	Avenue Rd.	Major	4	N	Res	N/A	Y	Y	N	N	Y	Y	Y	5	10	Curb-Grass Line	1	N	Bin across street	Road	N:43.719635 W:79.415407		across the street from a private school
113	118	13	15-Sep-16	9:15 AM	9:40 AM	C	Var	9	3	3	Woodland Hts.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	0	0	Curb	1	N		Heights	N: 43.6022 W:79.46885	*	Started at fire hydrant after Y-intersection
114	119	6	19-Sep-16	10:50 AM	11:08 AM	C	Fixed	18	18	18	Butterick Rd.	Minor	2	N	Ind	3 to 6	N	N	N	Y	N	Y	N	18	23	Grass Line-Ditch	2	N		Road	N: 43.6130 W:79.53040	*	site across several commercial lots, many vehicles parked along site
115	120	32	15-Sep-16	2:06 PM	2:20 PM	A	Var	18	12	18	Queen St. East	Major	4	N	Res-Com	N/A	Y	Y	N	Y	N	Y	Y	3	30	Curb-Building	1	N	Bin across street	Street	N: 43.67118 W:79.29537	*	started at the intersection of Wineva and Queen to ensure 200 ft survey area. At least 3 litter bins within view of site
116	121	32	14-Sep-16	2:30 PM	2:42 PM	B	Var	6.5	7	8.5	Glen Stewart Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	5	2	Curb	1	N		Ave	N: 43.67783 W:79.29945 N:43.674358 W:79.32857	*	Start at #48 heading west
117	122	30	14-Sep-16	1:20 PM	1:40 PM	B	Var	7	6.5	7	Walpole Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	52	7	Curb	4	N		Ave	N:43.694514 W:79.316257		100 ft from intersection of Halsey and Dawes very litter filled
118	123	32	15-Sep-16	11:08 AM	11:20 AM	B	Var	6.5	6.5	6.5	Barker Ave.	Minor	2	N	Res	N/A	N	Y	N	N	N	Y	N	9	4	Hedge-Curb-Stone wall	1	N		Ave	N:43.69582 W:79.298125		100 ft from intersection of Halsey and Dawes very litter filled
119	124	31	15-Sep-16	2:14 PM	2:45 PM	B	Var	18	18	7	Halsey Ave.	Minor	2	N	Res-Com	3 to 6	Y	Y	N	N	N	Y	N	93	36	Curb-Grass Line-Tree	4	N		Ave	N:43.684154 W:79.317425		site is a one way street, one lane for driving and one for parking. Start at #45 heading south
120	125	32	15-Sep-16	11:56 AM	12:15 PM	B	Var	13	13	13	Aldridge Ave.	Minor	2	N	Res	over 6	N	N	N	N	N	Y	N	43	8	Curb-Grass-Stone wall	4	N		Ave	N:43.667206 W:79.319603		one way street. Start at #20 heading southwest
121	126	32	14-Sep-16	1:00 PM	1:10 PM	B	Var	6.5	6.5	6	Ashdale Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	6	2	Curb-Sewer Grate	1	N		Ave	N:43.68302 W:79.29525	*	one way street
122	127	32	14-Sep-16	12:42 PM	12:53 PM	B	Var	6.5	6.5	8	Orchard Park Blvd.	Minor	2	N	Res	N/A	N	N	N	Y	N	Y	Y	7.5	3	Fence-Curb-Hedge	1	N	City bin at start of site	Bld	N: 43.66793 W:79.31413	*	survey start at corner (east) of Malvern & Gerrard to ensure 200ft length
123	128	32	14-Sep-16	2:47 PM	2:57 PM	B	Var	5	6.5	5	Wayland Ave.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	3	2	Curb	1	N		Ave	N: 43.78751 W:79.18439	*	site begins in front of Hakim Optical and Sandy's Cuisine & Caf�. 3351 Ellesmere Rd
124	129	32	14-Sep-16	3:07 PM	3:27 PM	B	Var	14	18	6.5	Gerrard St. E	Major	4	N	Res	<3	N	N	N	N	Y	Y	Y	10.5	33	Fence-Curb-Grass Line	2	N	Bin across street next to bus stop	Street	N: 43.68037 W:79.28799 N:43.808348 W:79.173715	*	site begins 50 ft from Silver Birch heading east
125	131	44	20-Sep-16	3:01 PM	3:14 PM	A	Var	18	17	18	Ellesmere Rd.	Major	4	N	Res-Com	3 to 6	N	N	N	Y	Y	Y	Y	19.5	13	Curb-Grass Line	2	N	2 garbage and recycling adjacent to site	Road	N: 43.756793 W:79.17428	*	Started across from Little & Birrell Ave towards Sewell's
126	132	44	14-Sep-16	3:40 PM	3:50 PM	B	Var	10	11	10	Kingston Rd	Major	4	N	Com	N/A	Y	Y	N	Y	Y	Y	Y	10.5	8	Curb	1	N		Road	N: 43.70797 W:79.30190	*	barrier separating two one way streets
127	133	44	20-Sep-16	2:39 PM	2:51 PM	A	Var	17	17	17	Hedge End Rd.	Minor	2	N	Res	<3	N	N	N	Y	N	N	Y	13.5	5	Curb-Grass Line	1	N	Garbage & recycling adjacent to point 3	Road	N: 43.81741 W:79.20461	*	Started across from Little & Birrell Ave towards Sewell's
128	134	44	20-Sep-16	12:30 PM	12:39 PM	A	Var	17	17	17	Portsmouth Dr.	Minor	2	N	Res	3 to 6, over 6	N	N	N	N	N	N	N	2	2	Curb-Grass Line	1	N		Drive	N: 43.78803 W:79.13211	*	Start @ house 51 before driveway
129	135	44	22-Sep-16	8:02 AM	8:08 AM	A	Var	2	2	2	Broadbridge Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	3	0	Curb-Grass-Driveway	1	N		Drive	N: 43.75180 W:79.20234	*	Start @ house 20 after 26 garden
130	136	44	22-Sep-16	8:15 AM	8:22 AM	A	Var	17	17	17	Moorefield Dr.	Minor	2	N	Res	<3, 3 to 6	N	N	N	N	N	N	Y	5	3	Curb-Grass Line	1	N		Drive	N: 43.78117 W:79.13486	*	Started in front of 235 sign on Manse Rd, bus stop 20 ft from point 3
131	137	44	20-Sep-16	11:55 AM	12:06 PM	A	Fixed	18	18	18	Manse Rd	Minor	2	N	Res	3 to 6	N	N	N	Y	Y	Y	Y	15	36	Curb-Grass Line	3	N		Road	N: 43.75393 W:79.19131	*	Start @ house 60, 70ft from end of driveway
132	138	43	20-Sep-16	11:08 AM	11:17 AM	A	Var	3	3	3	Galloway Rd.	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	3	1	Curb	1	N		Road	N: 43.75180 W:79.20234	*	Start @ house 20 after 26 garden
133	139	43	20-Sep-16	10:54 AM	11:00 AM	A	Fixed	18	18	18	Leverhume Cres.	Minor	2	N	Res	<3, 3 to 6	N	N	N	N	N	N	N	6	5	Curb-Grass-Property Line	1	N		Crescent	N: 43.85195 W:79.16869	*	Country side road off of Tauntin Rd & Steeles Ave
134	140	42	20-Sep-16	2:07 PM	2:24 PM	A	Var	12	10	9	Scarborough-Pickering Town line	Minor	2	N	Res-Park	over 6	N	N	N	N	N	N	N	43	2	Curb-Grass-Tree Line	3	N		Town Line	N: 43.81741 W:79.20461	*	Started across from Little & Birrell Ave towards Sewell's
135	141	42	21-Sep-16	8:21 AM	8:41 AM	A	Var	17	16	18	Littles Rd.	Minor	2	N	Res	3 to 6	N	N	N	Y	Y	Y	Y	39	43	Curb-Grass Line	3	N	Garbage & recycling bins @ bus stop on corner	Road	N: 43.70797 W:79.30190	*	barrier separating two one way streets
136	142	31	15-Sep-16	3:05 PM	3:20 PM	B	Var	6.5	6.5	10	St Clair Ave. E	Major	4	N	Res-Com	N/A	Y	Y	N	N	N	Y	N	19.5	8	Curb-Cement Bank	3	N		Street	N: 43.682139 W:79.332344 N: 43.66056 W:79.33475	*	Started across from Little & Birrell Ave towards Sewell's
137	143	31	15-Sep-16	3:30 PM	3:38 PM	B	Var	10	10	10	Northdale Blvd.	Minor	1	Y	Res	<3	N	N	N	N	N	N	N	2	0	Curb-Grass-Sewer	1	N		Bld	N: 43.695004 W:79.332344 N: 43.66056 W:79.33475	*	School drop-off and pick-up zone
138	144	29	15-Sep-16	11:35 AM	11:48 AM	B	Var	8.5	7	7	Monarch Park Ave.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	7	2	Hedge-Stone walk	1	N		Road	N: 43.695004 W:79.332344 N: 43.66056 W:79.33475	*	Start @ 73 going south
139	145	29	15-Sep-16	9:46 AM	10:02 AM	B	Var	18	18	9	Plains Rd.	Minor	2	N	Res	N/A	Y	N	N	N	N	Y	N	13.5	5	Fence-Curb-Sewer	2	N		Ave	N: 43.674373 W:79.343994		one way street one lane for driving and one for parking
140	146	30	14-Sep-16	12:02 PM	12:12 PM	B	Var	6.5	6.5	6.5	Caroline Ave.	Minor	2	N	Res	<3	N	Y	N	N	N	Y	N	12	3	Hedge-Curb-Grass Line	3	N		Ave	N: 43.682139 W:79.343994		one way street one lane for driving and one for parking
141	147	30	14-Sep-16	9:26 AM	9:37 AM	B	Var	6.5	6.5	6.5	Frizzell Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	Y	Y	N	18.5	2	Fence-Hedge-Curb-Grass Line	3	N		Ave	N: 43.682139 W:79.343994		one way street one lane for driving and one for parking
142	148	29	14-Sep-16	9:04 AM	9:19 AM	B	Var	6	6.5	18	Selkirk St.	Minor	2	N	Res	over 6	N	N	N	N	N	N	N	12	4	Fence-Hedge-Curb	2	N		Street	N: 43.686056 W:79.347524		North from Mortimer
143	149	29	14-Sep-16	8:22 AM	8:50 AM	B	Var	11	9	9	Pape Ave	Major	4	N	Res-Com	N/A	N	Y	N	Y	Y	Y	Y	2.5	9	Curb-Grass Line	1	N	Bins across from site and on side	Ave	N: 43.655503 W:79.342108		site adjacent to city property, saw garbage trucks nearby
144	150	30	14-Sep-16	11:28 AM	11:53 AM	B	Var	13	14.5	14.5	Booth Ave.	Minor	2	N	Ind	over 6	N	N	N	N	N	Y	N	66.5	10	Fence-Curb-Grass Line	4	N		Ave	N: 43.691614 W:79.356662		Construction on Zenith
145	151	29	19-Sep-16	2:50 PM	3:00 PM	B	Var	6	6	6	Fernwood Gardens	Minor	2	N	Res	N/A	N	N	N	N	Y	Y	Y	19	5	Curb	3	N	Bin @ bus stop on Broadview	Gardens	N: 43.7121 W:79.26971	*	Construction on Zenith
146	152	35	19-Sep-16	9:50 AM	9:59 AM	A	Fixed	18	18	18	Zenith Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	Y	Y	Y	11	16	Curb-Grass Line	2	N	Garbage & recycling bins @ bus stop on corner	Drive	N: 43.72653 W:79.26570	*	Construction on Zenith
147	153	35	19-Sep-16	12:22 PM	12:44 PM	A	Fixed	18	18	18	Kennedy Rd.	Major	4	N	Res-Com	<3	Y	Y	N	Y	Y	Y	Y	72	29	Curb-Grass-Property Line	4	N	Garbage & recycling bins @ bus stop	Road	N: 43.72653 W:79.26570	*	



Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed	Width 1	Width 2	Width 3	Street	St. Type	Lanes	Divided	Area	Grass Ht. (Inches)	Fast Food	Conv Store	Mobile Food	Bench or Resting Structure	Bus Stop	Traffic Light/ Stop sign	Litter Bin	Large Litter Count	Small Litter Count	Catch Pt	Litter Index	Cleanup	Details	Street	Coordinates	Updated Coordinates from Previous Survey	Comments
148	154	35	19-Sep-16	12:00 PM	12:06 PM	A	Var	8	8	8	Verdun Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	5	4	Fence-Curb-Grass Line	2	N		Ave	N: 43.72926 W: 79.25420	*	
149	155	35	19-Sep-16	2:25 PM	2:43 PM	A	Var	18	8	18	Eglinton Ave. E	Minor	2	N	Res-Com	3 to 6	N	N	N	Y	Y	Y	Y	18	21	Curb-Grass-Sidewalk	2	N	Garbage & recycling between points 1 & 2	Ave	N: 43.73277 W: 79.26445	*	Survey completed directly in front of transit station bus area
150	156	37	19-Sep-16	3:17 PM	3:29 PM	A	Var	10	10	10	Sherwood Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	10	0	Curb-Grass-Property Line	2	N		Ave	N: 43.74061 W: 79.30996	*	
151	157	37	20-Sep-16	8:05 AM	8:16 AM	A	Fixed	18	18	18	Laxford Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	4	10	Curb-Grass Line	1	N		Ave	N: 43.74242 W: 79.29944	*	Started @ house #25
152	158	37	20-Sep-16	8:24 AM	8:34 AM	A	Var	12	12	12	Warden Ave.	Major	4	N	Res	3 to 6	Y	N	N	N	N	Y	N	6.5	11	Curb-Grass-Property Line	2	N		Ave	N: 43.74329 W: 79.29383	*	Start @ house 1110
153	159	37	21-Sep-16	8:10 AM	8:21 AM	B	Var	10	10	10	Princemere Cr	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	7.5	3	Curb-Grass Line	1	N		Crescent	N: 43.75507 W: 79.30285	*	
154	160	37	20-Sep-16	8:51 AM	8:57 AM	A	Var	3	3	3	Flora Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	18	0	Curb	1	N		Drive	N: 43.74769 W: 79.27628	*	In front of house 202
155	161	40	21-Sep-16	2:50 PM	3:05 PM	B	Fixed	18	18	18	Ellesmere Rd.	Minor	6	Y	Com-Ind	3 to 6	Y	Y	N	Y	Y	Y	Y	22	20	Curb-Grass Line	3	N	Bin @ bus stop on site	Road	N: 43.76789 W: 79.27332	*	Toronto Public Library Administration Centre also present in area
156	162	40	21-Sep-16	8:40 AM	8:51 AM	B	Fixed	18	18	18	Crocus Dr.	Minor	2	N	Park	3 to 6	N	N	N	N	N	Y	Y	14	5	Curb-Grass Line	2	N	In middle of site	Drive	N: 43.76871 W: 79.30751	*	
157	163	40	21-Sep-16	12:33 PM	12:45 PM	A	Var	17	17	17	Murmount Rd.	Minor	2	Y	Res	<3	N	N	N	N	N	Y	N	9	2	Curb-Grass-Property Line	1	N		Road	N: 43.77826 W: 79.28488	*	Started approx. 10 ft after house 34
158	164	40	21-Sep-16	12:09 PM	12:20 PM	A	Var	17	18	17	Kellen St.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	2	3	Curb-Grass Line	1	N		Street	N: 43.78231 W: 79.30687	*	Start @ house 11
159	165	40	21-Sep-16	11:55 AM	12:03 PM	A	Var	3	17	18	Huntingwood Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	11.5	40	Curb-Grass-Property Line	2	N		Drive	N: 43.78631 W: 79.30830	*	Start @ corner of Davisbrooke & Huntingwood Dr
160	166	39	21-Sep-16	2:08 PM	2:20 PM	A	Var	15	17	17	Kilchurn Castle Dr.	Minor	2	N	Res	3 to 6	N	N	N	Y	Y	Y	Y	3	6	Curb-Grass Line	1	N	bin @ corner of Kennedy & Huntingwood	Drive	N: 43.79472 W: 79.29494	*	Start @ corner of Kilchurn Castle & Huntingwood
161	167	39	21-Sep-16	9:53 AM	10:05 AM	A	Var	17	17	17	Sanwood Blvd	Minor	2	N	Res	<3, 3 to 6	N	N	N	N	Y	N	N	4	5	Curb-Grass-Property Line	1	N		Bld	N: 43.81645 W: 79.31322	*	Start @ house 11
162	168	39	21-Sep-16	9:38 AM	9:42 AM	A	Var	17	17	17	Chapel Park Sq	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	1	3	Curb-Grass Line	1	N		Square	N: 43.81988 W: 79.31416	*	Start @ house 7
163	169	41	21-Sep-16	2:50 PM	3:05 PM	A	Fixed	18	18	18	Midland Ave	Major	4	N	Res	<3	N	N	N	N	Y	Y	Y	19	26	Curb-Grass Line	2	N	Garbage & recycling across street @ bus stop	Ave	N: 43.79361 W: 79.28186	*	site begins at 2717 Midland Ave
164	170	41	21-Sep-16	2:30 PM	2:40 PM	A	Var	17	17	18	Crockamhill Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	1	6	Curb-Grass-Property Line	1	N		Drive	N: 43.79812 W: 79.28194	*	site begins at 61 Crockamhill, construction @ start of street
165	171	40	21-Sep-16	9:23 AM	9:28 AM	A	Var	3	3	3	Scoville Sq.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	6	0	Curb-Grass-Property Line	1	N		Square	N: 43.82558 W: 79.28783	*	start point in front of 11 Scoville Sq
166	172	41	21-Sep-16	8:55 AM	9:10 AM	A	Fixed	18	18	18	Maybrook Dr.	Minor	2	N	Ind	3 to 6	N	N	N	Y	Y	N	Y	30	19	Curb-Grass Line	2	N	Garbage & recycling on street @ bus stop	Drive	N: 43.82394 W: 79.26561	*	site starts in front of CBM Scarborough Plant
167	173	32	15-Sep-16	2:53 PM	3:02 PM	A	Var	15	7	6	Victoria Park Ave.	Minor	2	N	Res	3 to 6	Y	N	N	N	N	Y	N	10	5	Fence-Curb-Property Line	2	N		Ave	N: 43.68077 W: 79.28403	*	
168	174	36	19-Sep-16	8:55 AM	9:02 AM	A	Var	2	2	2	Wynwinvrt. Cr.	Lane	1	N	Res	3 to 6	N	N	N	N	N	Y	N	0	2	Grass-Property Line	1	N		Court	N: 43.69851 W: 79.25414	*	Right side of street
169	175	36	19-Sep-16	10:25 AM	10:36 AM	A	Var	17	17	17	Stoley Rd.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	13	8	Curb-Grass Line	2	N		Road	N: 43.72042 W: 79.23039	*	school @ point 1
170	176	36	19-Sep-16	11:20 AM	11:25 AM	A	Fixed	18	18	18	Randall Cres.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	4	2	Curb-Grass Line	1	N		Crescent	N: 43.72835 W: 79.23933	*	start @ 264 Randall
171	177	36	19-Sep-16	11:08 AM	11:20 AM	A	Var	3	3	3	Randall Cres.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	5	1	Curb	2	N		Crescent	N: 43.72633 W: 79.23846	*	
172	178	36	19-Sep-16	10:46 AM	10:59 AM	A	Var	7	7	7	Kingston Rd	Major	6	N	Res-Com	3 to 6	Y	Y	N	Y	Y	Y	Y	4	5	Curb-Grass Line	1	N	Garbage & recycling @ bus stop 50 ft from point 3	Road	N: 43.72412 W: 79.23984	*	
173	179	36	20-Sep-16	10:24 AM	10:38 AM	A	Fixed	18	18	18	Eglinton Ave. E	Major	6	Y	Res-Com	<3	Y	Y	N	N	Y	Y	Y	13	21	Curb-Grass Line	1	N	Garbage bin outside Metro	Ave	N: 43.74324 W: 79.21822	*	Metro @ point 3
174	180	38	20-Sep-16	9:25 AM	9:35 AM	A	Var	17	17	17	Suraty Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	0	2	Curb-Grass Line	1	N		Ave	N: 43.76101 W: 79.24915	*	Infront of house #18
175	181	38	21-Sep-16	3:25 PM	3:34 PM	B	Var	14	16	16	Lynnbrook Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	8.5	5	Curb-Grass Line	2	N		Drive	N: 43.77222 W: 79.24480	*	
176	182	38	22-Sep-16	9:35 AM	9:48 AM	A	Fixed	18	18	18	Progress Ave.	Major	4	N	Ind	3 to 6	N	N	N	N	N	Y	N	23.5	20	Curb-Grass	3	Y	Street cleaner vacuum cleaning garbage on street	Ave	N: 43.77703 W: 79.24947	*	Site begins at fire hydrant in front of Oxford College
177	183	42	22-Sep-16	9:02 AM	9:22 AM	A	Fixed	18	18	18	Sheppard Ave. E	Major	4	N	Res	3 to 6	Y	Y	N	Y	Y	Y	Y	26	18	Curb-Grass Line	1	Y	Garbage bin outside plaza adjacent to site. Super Sucker going down Sheppard	Ave	N: 43.79432 W: 79.23630	*	Construction on right side of site (new apartment)
178	184	42	22-Sep-16	8:40 AM	8:50 AM	A	Var	11	11	3	Unita Gr. (Grove)	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	21	13	Curb-Grass Line	1	N		Grove	N: 43.80146 W: 79.22691	*	site begins at intersection of Unita and Mammoth Hall on sidewalk
179	201	30	13-Sep-16	9:00 AM	9:10 AM	B	Var	8	7	8	Broadview Ave.	Major	4	N	Res-Park	N/A	N	N	N	N	Y	Y	Y	15.5	0	Hedge	3	N	bin across street in park	Ave	N: 43.67733 W: 79.35651	*	across from Riverdale park east
180	202	26	19-Sep-16	1:59 PM	2:11 PM	B	Var	2	2	2	Esandar St.	Minor	2	N	Ind	N/A	N	N	N	N	N	Y	N	24.5	6	Curb	3	N		Street	N: 43.70778 W: 79.35693	*	
181	203	22	19-Sep-16	12:58 PM	1:07 PM	B	Var	6.5	6.5	6.5	Cleveland St.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	12	2	Curb	2	N		Street	N: 43.704157 W: 79.378688	*	school located on opposite corner
182	204	22	19-Sep-16	11:28 AM	11:38 AM	B	Var	7.5	6.5	6.5	Berwick Ave.	Minor	2	N	Res-Com	N/A	N	N	N	N	N	Y	N	0	2	Curb	1	N		Ave	N: 43.704017 W: 79.399475	*	
183	205	22	19-Sep-16	12:24 PM	12:37 PM	B	Var	18	18	6.5	Chaplin Cres	Minor	2	N	Res	3 to 6	N	Y	N	N	N	Y	Y	17.5	5	Fence-Curb-Grass Line	2	N	2 bins on either side of street	Crescent	N: 43.698121 W: 79.398555	*	apartments located east of duplex ave. Last 30ft of site under construction
184	206	22	14-Sep-16	12:10 PM	12:23 PM	A	Var	9	8	8	Avenue Rd.	Major	6	N	Res	N/A	N	N	N	Y	Y	Y	N	3	8	Curb-Property Line	1	N		Road	N: 43.683928 W: 79.408997	*	surrounded by apartment complexes
185	207	27	14-Sep-16	11:15 AM	11:29 AM	A	Var	8.5	7	7	Roxborough St. W	Minor	2	N	Res	3 to 6	Y	N	N	Y	N	Y	N	10	5	Fence-Curb	1	N		Street	N: 43.678265 W: 79.390939	*	

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed	Width 1	Width 2	Width 3	Street	St. Type	Lanes	Divided	Area	Grass Ht. (Inches)	Fast Food	Conv Store	Mobile Food	Bench or Resting Structure	Bus Stop	Traffic Light/ Stop sign	Litter Bin	Large Litter Count	Small Litter Count	Catch Pt	Litter Index	Cleanup	Details	Street	Coordinates	Updated Coordinates from Previous Survey	Comments	
186	208	27	14-Sep-16	10:47 AM	11:01 AM	A	Var	12	18	18	Mt. Pleasant Rd.	Major	4	N	Res-Com	3 to 6	N	N	N	Y	N	Y	N	10	9	Curb-Property Line	1	N		Road	N:43.674473 W:79.380628		adjacent to private school campus. Outside of wellness centre	
187	209	28	12-Sep-16	1:05 PM	1:20 PM	C	Var	11	18	18	Prospect St.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	8	6	Fence-Curb-Garden	1	N		Street	N:43.668004 W:79.371309		elementary schools on south side of street	
188	210	27	12-Sep-16	11:21 AM	11:50 AM	C	Var	18	14	7	Mutual St.	Major	2	N	Res-Com	N/A	Y	N	N	Y	Y	N	Y	11	20	Fence-Hedge-Curb	3	Y	Apt superintendent sweeping in front of building	Street	N:43.65601 W:79.37529	*	Construction across street	
189	211	20	12-Sep-16	2:37 PM	2:38 PM	A	Var	13.5	13	12	John St.	Major	4	N	Com	N/A	Y	N	N	N	N	Y	N	2	13	Curb-Building	1	N		Street	N:43.64649 W:79.38526	*		
190	212	28	12-Sep-16	11:45 AM	12:00 PM	B	Fixed	18	18	18	Colbourne St.	Minor	2	N	Com	N/A	Y	N	N	Y	N	Y	Y	15	18	Curb	2	N		Street	N:43.648736 W:79.37173		Construction in the area	
191	213	28	12-Sep-16	1:27 PM	1:43 PM	B	Var	12	18	18	George St.	Minor	2	N	Res	N/A	N	N	N	Y	Y	Y	Y	N	26	14	Hedge	1	N		Street	N:43.647814 W:79.369819		
192	214	28	12-Sep-16	3:55 PM	4:09 PM	B	Fixed	18	18	18	Richmond St. E.	Major	4	N	Com	N/A	Y	Y	N	N	N	Y	Y	18	8	Curb	1	N	Bin around corner on Power	Street	N:43.654791 W:79.364009		adjacent to gas station	
193	215	28	13-Sep-16	12:35 PM	12:50 PM	B	Var	10	6	13	Pashler Ave.	Lane	2	N	Com	over 6	N	N	N	N	N	Y	N	28	11	Fence-Hedge-Grass Line	1	N	Church garbage bins on North end	Ave	N:43.659365 W:79.363975		site is adjacent to school and an apartment. Construction near south end of site	
194	216	28	13-Sep-16	2:05 PM	2:18 PM	B	Var	5	5	5.5	Bright St.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	17.5	1	Fence-Hedge-Curb	3	N		Street	N:43.655997 W:79.359537		Start @ 43 heading south	
195	217	28	13-Sep-16	1:10 PM	1:23 PM	B	Var	6	6	6	Dundas St. E	Major	4	N	Res-ind	<3	Y	N	N	N	N	Y	N	42	4	Fence-Hedge	4	Y	Street cleaner across street	Street	N:43.660802 W:79.359056		Original site under construction, whole site heavy construction	
196	218	30	13-Sep-16	10:20 AM	10:30 AM	B	Fixed	18	18	18	Carroll St.	Lane	1	N	Res-Park	N/A	N	N	N	Y	N	Y	Y	1	2	Curb-Sewer Grate	1	N		Street	N:43.659377 W:79.353158		paved walkway	
197	219	30	13-Sep-16	10:35 AM	10:46 AM	B	Var	5.5	18	6	Kintyre Ave.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	14	3	Hedge-Curb-Grass Line	2	Y	City worker picking up litter	Ave	N:43.660121 W:79.351637			
198	220	28	15-Sep-16	12:00 PM	12:11 PM	A	Var	18	18	18	Lake Shore Ave.	Major	1	N	Park	3 to 6	N	N	N	Y	N	N	Y	10	4	Grass Line	1	N		Ave	N:43.61341 W:79.38316	*		
199	221	32	15-Sep-16	1:15 PM	2:03 PM	B	Var	11	16	16	Cedarvale Ave.	Minor	2	N	Res	over 6	N	Y	N	N	N	Y	N	120	16	Fence-Hedge-Curb-Grass-Tree Line-Sewer	4	N		Street	N:43.687115 W:79.311354			
200	222	26	19-Sep-16	8:33 AM	8:50 AM	B	Fixed	18	18	18	Don Mills Rd.	Major	6	N	Res	<3	N	N	N	N	Y	Y	Y	18.5	18	Curb-Grass Line	2	Y	Street cleaner vacuum present. Bins within study site	Road	N: 43.71761 W:79.33791	*	in front of science centre	
201	223	26	19-Sep-16	1:36 PM	1:49 PM	B	Fixed	18	18	18	Millwood Rd	Major	4	Y	Com-Park	<3	Y	N	N	Y	Y	Y	Y	11	7	Curb-Grass Line	2	N	Bins @ corner	Road	N: 43.70166 W:79.35196	*		
202	224	26	19-Sep-16	2:25 PM	2:39 PM	B	Var	16	16	16	Overlea Blvd.	Major	4	Y	Res	<3	Y	Y	N	Y	Y	Y	Y	12	16	Fence-Curb	1	N	both sides of streets, next two bus stops	Bvd	N:43.703885 W:79.350232			
203	250	19	13-Sep-16	9:40 AM	9:46 AM	A	Fixed	18	18	18	Stafford St.	Minor	2	N	Com	N/A	Y	Y	N	N	Y	Y	Y	5.5	9	Curb-Building	2	N		Street	N:43.64196 W:79.41069	*	Site starts @ corner of King & Stafford towards Caniff, alongside Shoppers	
204	251	20	12-Sep-16	11:35 AM	11:50 AM	A	Fixed	18	18	18	University Ave	Major	6	Y	Com	3 to 6	N	N	N	Y	N	Y	Y	2	24	Curb-Wall Building	1	Y	City worker picking up litter	Ave	N: 43.65351 W:79.38787	*	Outside court house	
205	252	28	15-Sep-16	11:27 AM	11:39 AM	A	Fixed	18	18	18	Avenue (of the Island)	Lane	1	N	Park	<3	N	N	N	Y	N	N	Y	0	7	Grass Line	1	N	Garbage & recycling on corner of point 1	Ave	N:43.62126 W:79.376807		park trail in front of fountain heading west	
206	254	19	13-Sep-16	9:05 AM	9:25 AM	C	Var	18	18	7.5	Clinton St.	Minor	2	N	Res-Com	N/A	Y	Y	N	Y	N	Y	N	10	26	Hedge-Curb	2	N		Street	N: 43.66333 W:79.41704	*		
207	256	28	12-Sep-16	12:36 PM	12:47 PM	A	Fixed	18	18	18	King St. W.	Major	4	N	Com	N/A	Y	N	N	Y	Y	Y	Y	3	15	Curb-Building	1	N		Street	N: 43.64782 W:79.38412	*		
208	257	28	13-Sep-16	9:35 AM	9:50 AM	B	Var	5	5	5	Parkview Ave.	Minor	2	N	Res	3 to 6	N	N	N	Y	N	Y	Y	10	2	Curb	2	Y	Park bin end of street. Resident out cleaning curb	Ave	N:43.670043 W:79.364289			
209	258	28	12-Sep-16	3:30 PM	3:45 PM	B	Var	7	8	6	Sackville St.	Minor	2	N	Res	3 to 6	N	N	N	N	Y	Y	N	7	1	Hedge-Curb	2	N		Street	N:43.65501 W:79.361196		adjacent to elementary school	
210	259	27	12-Sep-16	10:38 AM	11:00 AM	C	Fixed	18	18	18	Dundas St. W.	Major	4	N	Com	N/A	Y	N	Y	N	Y	Y	Y	7.5	63	Curb-Cement planter-Bike rack	2	N		Street	N: 43.65627 W:79.38117	*	Bus stop located in 1st section of survey area, at end of survey area extended due to garden	
211	260	20	13-Sep-16	3:30 PM	3:50 PM	A	Fixed	18	18	18	Spadina Ave.	Major	5	Y	Com	N/A	Y	Y	N	Y	Y	Y	Y	5	94	Curb-Building	2	N		Ave	N: 43.65315 W:79.39798	*	various store fronts next to survey area. 5th lane is centre transit lane	
212	261	20	13-Sep-16	2:15 PM	2:36 PM	C	Fixed	18	18	18	Augusta Ave.	Minor	2	N	Com	N/A	N	Y	Y	N	Y	Y	Y	2	66	Hedge-Curb-Cement planter	1	N		Ave	N:43.65591 W:79.40253	*	start point in front of Big Fat Burrito	
213	270	28	15-Sep-16	10:50 AM	10:59 AM	A	Var	18	11.5	12	Lake Shore Ave.	Boardwalk	1	N	Park	3 to 6	N	N	N	N	N	N	Y	6	2	Grass Line	1	N	Garbage bin	Ave	N:43.62270 W:79.36176	*	wooden boardwalk	
214	271	36	19-Sep-16	8:45 AM	8:52 AM	A	Var	4	4	4	Wynnmv Cr.	Lane	2	N	Res	3 to 6	N	N	N	N	N	N	N	2	6	Grass Line	1	N		Crescent	N:43.69780 W:79.25379	*		
215	300	19	13-Sep-16	9:35 AM	9:51 AM	C	Var	18	14	14	Bloor St. W	Major	5	N	Res-Com	N/A	Y	Y	N	N	N	Y	Y	6	49	Curb-Garden	2	N	3 divided city bins	Street	N:43.66438 W:79.41489	*		
216	301	20	13-Sep-16	10:04 AM	10:22 AM	C	Var	18	14	18	Bloor St. W.	Major	5	N	Res-Com	N/A	Y	Y	N	N	N	Y	Y	2	63	Curb-Tree edge	1	Y	Litter typically collected 6 or 7 AM	Street	N:43.66551 W:79.40916	*		
217	302	20	13-Sep-16	10:35 AM	10:45 AM	C	Var	18	6.5	6.5	Sussex Ave.	Minor	2	N	Res-Come	<3	N	Y	N	N	Y	N	Y	0	10	Fence-Curb-Grass Line	1	N	3 divided city bins	Ave	N:43.66481 W:79.40177	*	University of Toronto buildings	
218	303	20	13-Sep-16	11:00 AM	11:13 AM	C	Var	18	6.5	6.5	Borden St.	Minor	2	N	Res-Com	<3	N	N	N	N	N	Y	Y	3	8	Hedge-Curb-Grass Line	1	N	1 divided city bin	Street	N: 43.66146 W:79.40698	*	one way street	
219	304	20	19-Sep-16	5:55 PM	6:26 PM	C	Var	6	8	18	Lippincott St.	Minor	2	N	Res-Com	over 6	Y	N	N	Y	Y	Y	Y	43	42	Fence-Hedge-Curb-Grass Line	3	N	1 divided city bin	Street	N:43.76957 W:79.28236	*	Site across from school, construction at home 107 Lippincott	
220	305	20	13-Sep-16	2:44 PM	3:20 PM	C	Var	18	18	16	Spadina Ave.	Major	5	Y	Com	N/A	Y	Y	N	N	Y	Y	Y	31	75	Curb-Tree edge	4	N	divided city bins	Ave	N: 43.65759 W:79.40006	*	start point in front of Aum Centre Yoga, multiple store fronts along length of site	
221	306	20	14-Sep-16	2:00 PM	2:19 PM	C	Var	7.5	12.5	18	Kensington Ave.	Lane	2	N	Res-Com	N/A	N	N	N	Y	N	N	N	3	30	Curb	1	N		Ave	N:43.65290 W:79.40008	*	various store fronts along survey area	
222	307	20	13-Sep-16	2:40 PM	2:46 PM	A	Var	11.5	13	12	Dundas St. W.	Major	4	N	Com	N/A	N	Y	N	Y	N	Y	N	8	18	Curb-Building	1	N		Street	N:43.652619 W:79.400599			
223	308	20	14-Sep-16	12:40 PM	1:00 PM	C	Var	6	6	6	Hickory St.	Lane	2	N	Res-Com	N/A	Y	N	N	N	N	Y	Y	15.5	9	Fence-Curb	3	N	1 divided city bin	Street	N: 43.65249 W:79.40305	*	Construction along site	
224	309	20	13-Sep-16	2:55 PM	3:07 PM	A	Var	11	12.5	13.5	Dundas St. W.	Major	4	N	Com	<3	Y	N	Y	Y	Y	Y	Y	5	33	Curb-Grass Line	2	N	Garbage & recycling bins	Street	N:46.650203 W:79.40474	*	Outside hospital, library across street	

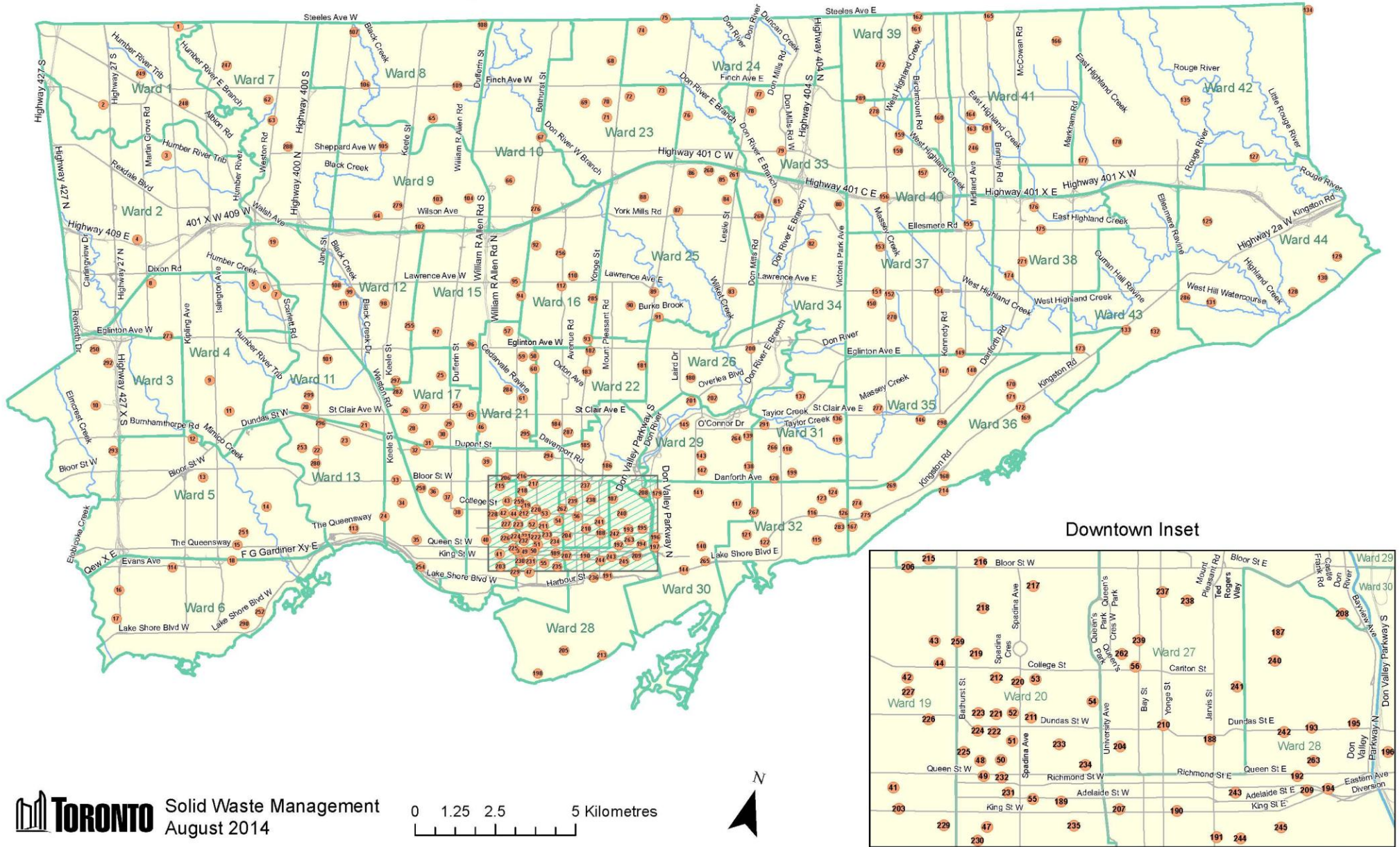
Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed	Width 1	Width 2	Width 3	Street	St. Type	Lanes	Divided	Area	Grass Ht. (Inches)	Fast Food	Conv Store	Mobile Food	Bench or Resting Structure	Bus Stop	Traffic Light/ Stop sign	Litter Bin	Large Litter Count	Small Litter Count	Catch Pt	Litter Index	Cleanup	Details	Street	Coordinates	Updated Coordinates from Previous Survey	Comments
225	310	20	13-Sep-16	12:06 PM	12:23 PM	A	Fixed	18	18	18	Eden PL	Lane	2	N	Res	N/A	N	N	N	N	N	N	N	11	26	Fence	2	N		Place	N:43.64907 W:79.04010	*	side street/laneway
226	311	19	14-Sep-16	11:54 AM	12:12 PM	C	Var	15	17	12	Euclid Ave.	alleyway	1	N	Com	N/A	N	N	N	N	N	N	N	11.5	9	Fence-Hedge-Curb-Sewer	2	N		Ave	N:43.650386 W:79.410013		Measured from one side of the alleyway to the other, two curbs
227	312	19	14-Sep-16	11:25 AM	11:44 AM	C	Var	13	7	7	Mansfield Ave.	Minor	2	N	Res-Com	N/A	N	N	N	N	N	Y	N	8	11	Fence-Curb	1	N		Ave	N:43.65361 W:79.41310	*	
228	313	19	14-Sep-16	10:26 AM	10:45 AM	C	Var	7	7	18	Crawford St.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	32.5	27	Fence-Hedge-Curb	4	N		Street	N:43.653767 W:79.418416		
229	315	19	13-Sep-16	9:52 AM	10:05 AM	A	Fixed	18	18	18	Niagara St.	Minor	2	N	Res	<3	N	N	N	Y	N	Y	N	15	17	Curb-Building	3	N		Street	N:43.641546 W:79.404511	*	In front of apartment complex, construction across street
230	316	20	13-Sep-16	10:43 AM	10:59 AM	A	Fixed	18	18	18	Wellington St. W	Major	4	N	Res-Com	N/A	N	N	N	Y	N	Y	Y	8.5	10	Curb-Building	1	N		Street	N:43.64329 W:79.38984	*	small parking lot on street
231	317	20	12-Sep-16	3:30 PM	3:38 PM	A	Fixed	18	18	18	Adelaide St. W	Major	4	N	Com	N/A	Y	N	N	Y	N	Y	Y	1	15	Curb-Building	1	N		Street	N:43.646033 W:79.397936		
232	318	20	12-Sep-16	3:57 PM	4:06 PM	A	Var	11	18	10	Augusta Ave.	Minor	2	N	Res-Com	<3	Y	N	N	N	N	Y	N	11	24	Fence-Curb-Building	1	N		Ave	N:43.648504 W:79.399767		
233	320	20	15-Sep-16	1:56 PM	2:06 PM	C	Var	8.5	7.5	7.5	Sullivan St.	Lane	2	N	Res	<3	N	N	N	N	N	Y	N	8	0	Fence-Curb-Grass Line	1	N		Street	N:43.65150 W:79.39457	*	
234	321	20	12-Sep-16	12:00 PM	12:15 PM	A	Var	14	16.5	14.5	Queen St. W.	Major	4	N	Com	N/A	Y	N	Y	Y	Y	Y	Y	0	0	Curb-Building Wall	1	N		Street	N:43.65052 W:79.38806	*	Construction across street
235	323	20	12-Sep-16	2:10 PM	2:26 PM	A	Var	18	15	18	John St.	Major	4	N	Com	N/A	Y	N	N	N	N	Y	Y	11	26	Curb	1	N		Street	N:43.644833 W:79.388959		
236	324	28	22-Sep-16	8:48 AM	9:05 AM	C	Var	11.5	11	13	Cooper St.	Major	2	N	Com	<3	N	N	N	Y	N	Y	Y	11.5	19	Curb-Grass Line	2	N		Street	N:43.75010 W:79.41284		commercial lot along north end of site and small park along south end
237	326	27	12-Sep-16	3:50 PM	4:06 PM	C	Var	18	11	10	St. Nicholas St.	Minor	2	N	Res	N/A	Y	N	N	Y	N	Y	Y	1	7	Fence-Hedge	1	N		Street	N:43.667368 W:79.386529		
238	328	27	12-Sep-16	3:20 PM	3:41 PM	C	Var	12	6	6	Gloucester St.	Minor	2	N	Res	N/A	N	Y	N	Y	N	N	N	7	17	Fence-Hedge	1	N		Street	N:43.667405 W:79.38242		next to a low rise at east end of site and high rise at west end of site, surveyed on to apartment lawns
239	329	27	12-Sep-16	4:29 PM	4:50 PM	C	Var	16	18	18	Grosvenor St.	Minor	4	N	Res-Com	3 to 6	Y	Y	N	N	Y	Y	Y	38	34	Curb-Grass Line-Concrete divider	4	N		Street	N:43.66215 W:79.38676	*	Construction taking place across from site, workers take break on North side of Grosvenor. Women's College Hospital Across St
240	330	28	12-Sep-16	12:40 PM	12:57 PM	C	Var	11.5	11.5	11.5	Ontario St.	Minor	2	N	Res-Com-Park	N/A	N	N	N	Y	N	Y	Y	3	22	Fence-Curb	1	N		Street	N:43.664231 W:79.370696		start point corner of Albelden and Ontario. Small park across street
241	332	27	12-Sep-16	12:04 PM	12:30 PM	C	Fixed	18	18	18	Gerrard St. E.	Major	4	N	Res-Com-Park	<3	N	N	N	Y	N	Y	Y	3.5	89	Curb	1	N		Street	N:43.661043 W:79.374296		Two curbs, city park at east end and church at west end
242	333	28	13-Sep-16	11:23 AM	11:40 AM	B	Var	18	18	11	Dundas St. E.	Major	4	N	Com-Res	N/A	N	Y	N	N	N	Y	Y	54	11	Curb	4	N	Bins on site	Street	N:43.658961 W:79.367351		
243	334	28	12-Sep-16	12:50 PM	1:05 PM	B	Var	9	8	9	Richmond St. E.	Major	4	N	Com	N/A	Y	N	N	N	N	Y	Y	6	14	Curb	1	N		Street	N:43.653288 W:79.37052		restaurants on north side, residential on south side of site
244	335	28	12-Sep-16	2:00 PM	2:15 PM	B	Var	10	10	10	Frederick St.	Minor	2	N	Res	N/A	N	N	N	N	Y	Y	N	29	7	Curb	3	N		Street	N:43.649263 W:79.369156		
245	336	28	12-Sep-16	2:30 PM	2:45 PM	B	Var	18	11	18	The Esplanade	Minor	4	N	Res-Com-Park	N/A	Y	N	N	Y	Y	Y	Y	8	35	Curb-Metal grates	2	N	Esplanade	N:43.649945 W:79.364121		large apartment complex to north west of site, many children were being walked to school along route	
246	337	41	22-Sep-16	10:04 AM	10:15 AM	A	Fixed	18	18	18	Midland Ave	Major	4	N	Res	3 to 6	N	N	N	Y	Y	Y	Y	8	8	Curb-Grass Line	1	N		Ave	N:43.78881 W:79.27985	*	begins in front of Agincourt High school
247	338	7	16-Sep-16	9:39 AM	9:50 AM	A	Var	17	17	17	Bennubin Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	11	2	Curb-Grass Line	2	N		Drive	N:43.752009 W:79.565628		adjacent to low rise apartment complex
248	401	1	16-Sep-16	1:30 PM	1:40 PM	A	Fixed	18	18	18	Sanagan Rd	Minor	2	N	Res	<3	N	N	N	N	Y	Y	Y	30	26	Curb-Grass Line	2	N	City bin with pedal	Road	N:43.738435 W:79.577298		adjacent to low rise apartment complex
249	402	1	16-Sep-16	8:43 AM	8:55 AM	A	Fixed	18	18	18	Garfella Dr	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	25	10	Curb-Grass Line	3	N		Drive	N:43.745327 W:79.593311		large apartment complex to north west of site, many children were being walked to school along route
250	403	3	16-Sep-16	11:07 AM	11:20 AM	C	Var	16	17.5	18	Gentian Dr	Minor	2	N	Res	3 to 6	N	N	N	N	Y	Y	N	2	4	Curb-Grass-Tree Line	1	N		Drive	N:43.665151 W:79.583458		
251	405	5	19-Sep-16	11:44 AM	11:56 AM	C	Var	18	14	14	Cochrane Dr	Minor	2	N	Res	<3	N	N	N	N	N	Y	Y	2	2	Curb-Grass Line	1	N		Drive	N:43.62776 W:79.50756	*	survey completed in Queensway Park
252	406	6	19-Sep-16	9:29 AM	9:40 AM	C	Var	5	6.5	6.5	Symons St	Minor	2	N	Res	over 6	N	N	N	N	N	N	N	3	1	Hedge-Curb	1	N		Street	N:43.607666 W:79.493473		Pipe laying construction along road
253	407	13	20-Sep-16	9:32 AM	9:40 AM	C	Var	18	18	7.5	Langmuir Cres	Minor	2	N	Res	3 to 6	N	N	N	Y	N	Y	Y	3	1	Curb-Stone walls	1	N		Crescent	N:43.655599 W:79.493872		cashman park is same side of site, residential houses on adjacent side
254	408	14	15-Sep-16	3:34 PM	3:49 PM	C	Var	15.5	15.5	15.5	Jameson Ave	Minor	2	N	Res	<3	N	N	N	Y	Y	Y	N	3	18	Fence-Curb-Grass Line	1	N		Ave	N:43.636312 W:79.436354		
255	409	15	20-Sep-16	12:00 PM	12:30 PM	B	Fixed	18	18	18	Castlefield Ave	Major	2	N	Park	3 to 6	N	N	N	Y	N	Y	Y	8	7	Grass-Tree Line	1	N		Ave	N:43.696485 W:79.469323		
256	410	16	22-Sep-16	10:23 AM	10:32 AM	B	Var	2	2	2	Grey Rd	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	6	0	Curb	1	N		Road	N:43.728026 W:79.421116		Construction on Grey at St.Germaine. Start at 289 heading west
257	411	17	14-Sep-16	3:10 PM	3:22 PM	A	Var	7	7	7	Northcliffe Blv	Minor	2	N	Res	3 to 6	Y	N	N	N	N	Y	N	2	6	Fence-Curb-Grass Line	1	N		Bld	N:43.679081 W:79.440975		across from elementary school. One way street one lane for driving one for parking
258	412	18	15-Sep-16	11:03 AM	11:20 AM	C	Var	6.5	6.5	6.5	Dublin St	Minor	2	N	Com-Res	N/A	N	N	N	N	N	Y	N	15	13	Fence-Hedge-Curb	2	N		Street	N:43.654536 W:79.443486		one way street, one lane for diving and a narrow one for parking
259	413	20	13-Sep-16	12:13 PM	12:24 PM	C	Var	10	6.5	6.5	Lippincott St	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	0	7	Fence-Curb	1	N		Street	N:43.65043 W:79.40722	*	directly in front of King Edward Public School
260	414	25	21-Sep-16	11:45 AM	11:51 AM	B	Var	2	2	2	Hopperton Dr	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	4	1	Curb	1	N		Drive	N:43.76461 W:79.37136	*	West side, starts at 56 towards woodsworth
261	415	25	21-Sep-16	12:14 PM	12:18 PM	B	Var	2	2	2	Shouldice Cr	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	2.5	0	Curb	1	N		Court	N:43.76261 W:79.36517	*	

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed	Width 1	Width 2	Width 3	Street	St. Type	Lanes	Divided	Area	Grass Ht. (Inches)	Fast Food	Conv Store	Mobile Food	Bench or Resting Structure	Bus Stop	Traffic Light/ Stop sign	Litter Bin	Large Litter Count	Small Litter Count	Catch Pt	Litter Index	Cleanup	Details	Street	Coordinates	Updated Coordinates from Previous Survey	Comments	
262	416	27	13-Sep-16	3:32 PM	3:41 PM	B	Fixed	18	18	18	Grosvenor St	Minor	2	N	Com-Government Buildings (Inst)	3 to 6	N	N	N	Y	N	Y	N	6.5	9	Hedge-Curb	2	N		Street	N:43.66189 W:79.38929	*	site in front of Frost North building	
263	417	28	12-Sep-16	4:20 PM	4:40 PM	B	Var	18	5	18	Sydenham St	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	30.5	8	Hedge-Curb	4	N		Street	N:49.656917 W:79.362483 N:43.69069 W:79.33517	*	site within park area	
264	418	29	15-Sep-16	10:25 AM	10:37 AM	B	Var	18	18	10	Memorial Park Ave	Minor	1	N	Res-Park	3 to 6	N	Y	N	Y	N	Y	Y	6	2	Fence-Curb	2	N		Ave	N:43.659511 W:79.33538	*	site bound by a curb on the west and residential properties on the east. House construction. Start at 18 moving North	
265	419	30	14-Sep-16	12:18 PM	12:27 PM	B	Var	4.5	6	5.5	Winnifred Ave	Minor	2	N	Res	N/A	N	N	N	N	N	N	N	4	1	Fence-Hedge-Curb-Grass Line	1	N		Ave	N:43.692795 W:79.31942		one way road. Start at 325 heading South	
266	420	31	15-Sep-16	10:49 AM	11:02 AM	B	Var	6.5	6.5	6.5	Dunkirk Rd	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	11	2	Fence-Curb-Wood/cement buildups	1	N		Road	N:43.673474 W:79.32121	*	across from Gallery Market Place	
267	421	32	14-Sep-16	2:01 PM	2:10 PM	B	Var	8	8	8	Rhodes Ave	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	7.5	5	Curb-Sewer	2	N		Ave	N:43.75373 W:79.35041	*	across from Gallery Market Place	
268	422	34	21-Sep-16	12:41 PM	12:57 PM	B	Fixed	18	18	18	Upjohn Rd.	Major	2	N	Com	<3	Y	N	N	N	N	Y	N	11.5	3	Curb-Grass Line	1	N		Road	N:43.69139 W:79.27254	*		
269	423	36	19-Sep-16	8:25 AM	8:35 AM	A	Var	6	6	2	Kenny Ave	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	5	4	Curb-Grass-Property Line	2	N		Ave	N:43.73706 W:79.29118	*		
270	424	37	19-Sep-16	2:57 PM	3:05 PM	A	Var	3	3	3	Minford Ave	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	Y	13	11	Curb-Grass Line	3	N	Garbage & recycling @ bus stop on corner	Ave	N:43.76190 W:79.24863	*		
271	425	38	20-Sep-16	9:38 AM	9:48 AM	A	Var	18	17	17	Kenciff Cres	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	8	9	Curb-Grass Line	1	N		Crescent	N:43.80294 W:79.32220	*	Construction on Warden, start before #136	
272	426	39	21-Sep-16	10:47 AM	10:59 AM	A	Var	17	17	17	Glen Springs Dr	Minor	2	N	Res	3 to 6, over 6	N	N	N	N	N	N	N	7	5	Curb-Grass Line	2	N		Drive	N:43.674568 W:79.57729	*	Starting point across from Metro supermarket	
273	500	3	16-Sep-16	10:07 AM	10:19 AM	C	Var	15.5	15	15	Lloyd Manor	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	9	10	Hedge-Curb-Grass Line	2	N		Road	N:43.68419 W:79.28351	*		
274	501	36	15-Sep-16	3:30 PM	3:37 PM	A	Var	6.5	5.5	6	Winston	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	3	0	Fence-Curb-Grass Line	1	N		Ave	N:43.68148 W:79.27905	*		
275	502	36	15-Sep-16	3:13 PM	3:21 PM	A	Var	8	6.5	6.5	Fallingbrook	Minor	2	N	Res	3 to 6	Y	N	N	N	Y	Y	Y	3	11	Curb-Grass-Property Line	1	N		Road	N:43.737921 W:79.435167	*		
276	503	10	21-Sep-16	2:25 PM	3:32 PM	C	Var	2	2	2	Charleswood	Minor	2	N	Res-Com	3 to 6	Y	Y	N	N	Y	Y	N	21	2	Hedge-Curb-Grass Line	3	N		Drive	N:43.71101 W:79.28610	*		
277	504	35	19-Sep-16	9:20 AM	9:28 AM	A	Var	11	12	13	St Clair E	Major	4	N	Res	<3	N	N	N	N	Y	Y	Y	8	20	Curb-Grass Line	2	N	Garbage & recycling bins across street	Ave	N:43.79218 W:79.31615	*	Construction on site	
278	505	40	21-Sep-16	11:29 AM	11:42 AM	A	Fixed	18	18	18	Bridletowne	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	8	7	Curb	2	N		Circle	N:43.727675 W:79.48678	*		
279	506	9	21-Sep-16	11:14 AM	11:30 AM	C	Var	16.5	16.5	16.5	Victory	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	8	4	Fence-Curb-Grass Line	1	N		Drive	N:43.653491 W:79.489788	*		
280	507	13	20-Sep-16	8:56 AM	9:11 AM	C	Fixed	18	18	18	Humberview	Minor	1	N	Res-Park	3 to 6, over 6	N	N	N	N	Y	N	N	Y	2	2	Grass-Shrubs	1	N	2 sets of park carts	Road	N:43.79853 W:79.27557	*	
281	508	41	21-Sep-16	3:16 PM	3:28 PM	A	Var	17	17	17	Mollard	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	23	13	Curb-Grass Line	2	N		Road	N:43.67685 W:79.28556	*		
282	509	17	20-Sep-16	1:50 PM	2:10 PM	C	Var	10.5	7.5	7	Algarve	Minor	2	N	Res-Park	over 6	N	N	N	N	N	N	Y	50.5	6	Fence-Curb-Grass Line	3	N	1 divided city bin, 2 recycling park carts	Crescent	N:43.689387 W:79.422633	*		
283	510	32	15-Sep-16	2:37 PM	2:45 PM	A	Var	6.5	7	6.5	Scarborough	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	2	0	Curb-Grass Line	1	N		Road	N:43.718363 W:79.404221	*		
284	511	21	20-Sep-16	1:41 PM	1:53 PM	B	Var	15	15	15	Heathdale	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	7	1	Curb-Grass Line	2	N		Road	N:43.76578 W:79.18445	*	Outside apartment building	
285	512	16	19-Sep-16	10:45 AM	10:56 AM	B	Var	6	6	6	Duplex	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	3	2	Curb-Sewer	1	N		Ave	N:43.680351 W:79.398771	*		
286	513	44	20-Sep-16	11:25 AM	11:37 AM	A	Fixed	18	18	18	Ling	Minor	2	N	Res	<3	N	N	N	Y	Y	Y	N	2	14	Curb-Building	1	N		Road	N:43.735869 W:79.530029	*		
287	514	22	14-Sep-16	11:30 AM	12:03 PM	A	Var	18	18	15.5	Avenue	Major	6	N	Res	<3	N	N	N	N	Y	N	Y	N	2	8	Curb-Building	1	N		Road	N:43.79263 W:79.32602	*	Along fence of apartment complex on corner. Construction @ apartment school located across Dwigth from site
288	515	7	16-Sep-16	12:08 PM	12:24 PM	A	Fixed	18	18	18	Sheppard W	Major	6	N	Com	over 6	N	N	N	N	N	Y	Y	N	45	55	Curb-Grass Line	3	N		Ave	N:43.604635 W:79.498672	*	
289	516	40	21-Sep-16	11:07 AM	11:21 AM	A	Fixed	18	18	18	Corinthian	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	10	7	Curb-Grass Line	2	N		Bldv	N:43.68052 W:79.28799	*	Construction across street	
290	517	6	19-Sep-16	9:46 AM	9:56 AM	C	Var	8.5	11.5	11.5	Murrie	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	0	5	Hedge-Curb-Grass Line	1	N		Street	N:43.66283 W:79.57479	*	18 ft of grass between sidewalk and curb. Site alongside a park	
291	518	31	15-Sep-16	8:54 AM	9:06 AM	B	Var	6	6	6	Machokie	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	1	1	Curb-Sewer	1	N		Road	N:43.672889 W:79.401604	*		
292	519	3	16-Sep-16	10:50 AM	11:01 AM	C	Fixed	18	18	18	Eringate	Minor	2	N	Res-Park	<3	N	N	N	Y	N	Y	Y	6	1	Curb-Grass Line	1	N	Garbage & recycling carts in park	Drive	N:43.639401 W:79.565374	*		
293	520	3	16-Sep-16	10:33 AM	10:47 AM	C	Var	14	14	16	The West Mall	Major	4	N	Res	<3	N	N	N	N	Y	Y	Y	6	27	Curb-Grass Line	1	N	2 divided city bins	Road	N:43.672889 W:79.401604	*	across Bernard from Apartment Complex	
294	521	20	13-Sep-16	9:15 AM	9:29 AM	A	Var	7	7	7	Bernard	Minor	2	N	Res	3 to 6	N	N	N	Y	N	Y	N	7	4	Curb-Grass Line	2	N		Ave	N:43.676534 W:79.414497	*		
295	522	21	14-Sep-16	1:55 PM	2:04 PM	A	Var	8	8	8	Davenport	Major	2	N	Res	N/A	N	N	N	Y	Y	Y	N	11	6	Fence-Curb-Grass Line	2	N		Road	N:43.66321 W:79.49155	*		
296	523	13	20-Sep-16	10:56 AM	11:06 AM	C	Var	7	7	7	Watson	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	2	2	Curb-Banner Wall	1	N		Road	N:43.68222 W:79.46942	*	Found 3 garbage bags rejected by city	
297	524	15	20-Sep-16	12:25 PM	12:45 PM	C	Var	11	11	10	Rogers	Major	4	N	Res-Com	over 6	Y	Y	N	N	Y	Y	N	19	42	Fence-Curb-Grass Line	3	N		Road	N:46.71215 W:79.26073	*	Site starts in middle of driveway on 18 Davidson Ave	
298	525	27	19-Sep-16	10:10 AM	10:13 AM	A	Var	3	3	3	Davidson	Minor	2	N	Res	3 to 6	N	Y	N	N	N	Y	N	3	0	Curb	1	N		Ave	N:43.69997 W:79.49881	*		
299	601	21	20-Sep-16	11:42 AM	11:53 AM	C	Var	7	7	8	Foxwell	Minor	2	N	Res	<3	N	N	N	Y	Y	N	Y	3	1	Curb-Retaining Wall	1	N	1 divided city bin	Street	N:43.65404 W:79.37373	*	near a church and hospital with adjacent parking lot. Abandoned building within site	
300	602	20	12-Sep-16	9:20 AM	10:00 AM	A	Var	16	18	18	Bond St.	Minor	2	N	Com	3 to 6	Y	N	N	Y	N	Y	Y	108.5	65	Fence-Curb-Grass Line	4	N	2 garbage cans across street, 1 within parking lot	Street		*		

APPENDIX B

SITE DISTRIBUTION MAP AND TOP LITTER HOTSPOTS

# September Litter Audit Locations



APPENDIX C  
METHODOLOGY

## Conducting the Litter Audit

Audit area at the sites should be the same size. Audit Areas are to be 200 feet (61 meters) x 18 feet (5.5 metres). These full sized audit areas are termed FIXED sites. The site width may be less than 18 feet in some cases, such as when in commercial areas the storefront is set back less than the prescribed distance. In these cases, each site should be 200 feet in length by the width available (<18 feet or 5.5 metres), which will be recorded. These sites are termed VARIABLE sites

Beginning at the front of the parked car or the start of the site, the team shall use a measuring device to measure 50 feet ahead of the start of the site. Using street marking paint (water based to dissolve) or some other temporary marking method (e.g. chalk, pylons), a mark should be made on the pavement ahead to denote the starting point of the audit site. From this point the team will measure 100 feet, marking the roadway with another identifier to show the mid-point of the site. A final measurement of an additional 100 feet denotes the end of the audit site. As mentioned above, each site is to be 200 feet in length.

The width measurement shall be taken at the start, midpoint and end of the site. The width of the site should be measured 1.5 feet from inside the curb or the start of the pavement, towards the outer edge of the site, up to a maximum width of 18 feet and marked to indicate the boundary. This rule is set to include 1.5 feet into the street since curbs are normal catchment structures, for which the City is responsible for litter clean up. Refer to Figure 2 below depicting the audit site setup.

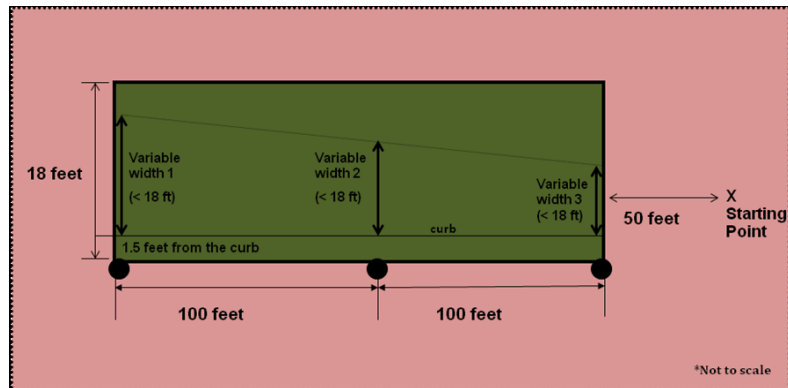


Figure 1: Schematic of Survey Site

## Classification of Large Litter

For purposes of classifying litter, and in accordance with the methods used in previous litter surveys, large litter is defined as being greater than 4 square inches in size. To assist the field teams with determining the litter sizes, each audit team will be provided with three templates of 4 square inches in rectangle, square and round shape form. Refer to Figure 3 depicting diagrams of the litter templates.

At each site location this litter audit will observe and document large litter in 17 categories and 87 sub-categories. See Table 1 below for details of the classification of litter items. The Site Surveyor-Large Item and Branded Litter Count form will be used for recording large litter items found at each site.



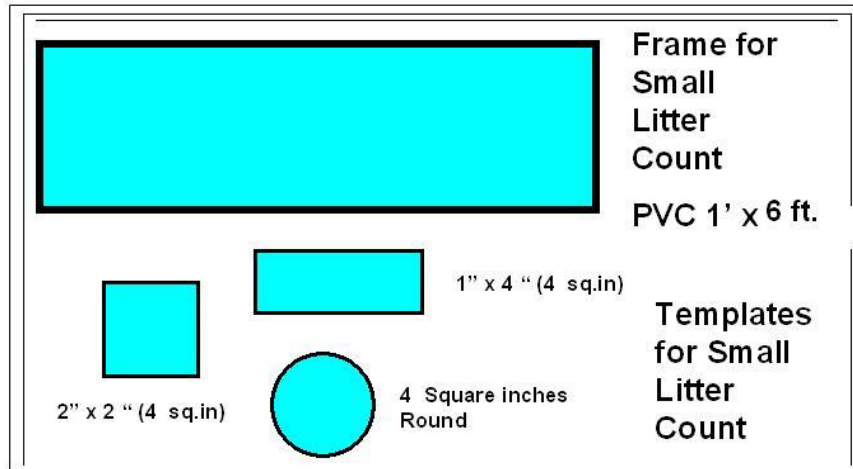


Figure 2: Litter Template

### Large Litter Categories

Major	Sub	Large Litter	Sub-Category	Material	Description
1	1	Beer Cans	Beverage	Metal	Consumer beer can containers
	2	Beer Bottles (Glass)	Beverage	Glass	Refillable and non-refillable beer bottles
	3	Soft Drink (Glass)	Beverage	Glass	Soft drinks in glass containers
	4	Soft Drink (Cans)	Beverage	Metal	Soft drinks in metal can containers
	5	Soft Drink (Plastic)	Beverage	Plastic	Soft drinks in plastic containers
	6	Sport Drink (Glass)	Beverage	Glass	Sport drinks in glass containers
	7	Sport Drink (Plastic)	Beverage	Plastic	Sport drinks in plastic containers
	8	Water (Glass)	Beverage	Glass	Packaged water in glass containers
	9	Water (Plastic)	Beverage	Plastic	Packaged water in plastic containers
	10	Wine/ Liquor (Glass)	Beverage	Glass	Wine & liquor in glass
	11	Wine/ Liquor (Plastic/Other)	Beverage	Plastic	Wine & liquor in plastic or other formats
	12	Milk/Juice (Plastic)	Beverage	Plastic	Milk or juice containers in plastic
	13	Milk/Juice (Glass)	Beverage	Glass	Milk or juice containers in glass
	14	Milk/Juice (Gable)	Beverage	Paper	Milk/juice in gable top cartons
2	15	Foil Pouches	Other Bev. Cont	Composite	Packaged goods and pieces of foil pkg
	16	Aseptic (Box)	Other Bev. Cont	Composite	Drink-in-box, juice, fluids, other
	17	Broken Cont. Glass	Other Bev. Cont	Glass	Glass bottle fragments
	18	Six Pack Plastic Rings	Other Bev. Cont	Plastic	Retainer plastic for carrying cans
	75	Foil Containers	Other Bev. Cont	Metal	Foil wraps (e.g., ice cream)
3	19	Plastic Drink Cups	Cups	Plastic	Cups, all resin types
	20	Paper Cups (Cold)	Cups	Paper	Cups, all paper types - cold drinks
	21	Paper Cups (Hot)	Cups	Paper	Cups, all paper types - hot drinks
	22	Polystyrene Cups (Foam)	Cups	Plastic	Cups, all polystyrene types - hot drinks
	23	Other Paper Cups	Cups	Paper	Cups, other materials

	24	Cup Lids, Pieces Lids	Cups	Plastic	Cups, lids, straws and pieces
4	25	Plastic Retail Bags	Bags	Plastic	Whole\pieces of retail plastic bags
	26	Paper Retail Bags	Bags	Paper	Whole\pieces of retail paper bags
	27	Paper Bags - Fast Food	Bags	Paper	Whole\pieces of fast food paper bags
	28	Plastic Bags - Not Retail	Bags	Plastic	Whole\pieces of non-retail plastic bags
	29	Paper Bags - Not Retail	Bags	Paper	Paper bags & sacks (e.g., leaf debris)
	30	Zipper Bags/ Sandwich	Bags	Plastic	Plastic lunch bags and sacs
5	31	Cardboard Boxes & Material	Other Packaging	Paper	All cardboard and box materials
	32	Paperboard (Cereal Type)	Other Packaging	Paper	Cereal, shoe boxes and pieces etc.
	33	Paper Beverage Cases	Other Packaging	Paper	Paper material outer packaging for beverage products
	34	Polystyrene Clamshells	Other Packaging	Plastic	Whole and pieces of expanded foam containers
	35	Paper Clamshells	Other Packaging	Paper	Whole and pieces of take-away or other paper containers
	36	Other Plastic Shells/Boxes	Other Packaging	Plastic	PET, PVC, HDPE, other material shells
6	37	Plastic Jars / Bottles/ Lids	Other Containers	Plastic	Non-beverage plastic jars/bottles, (e.g., detergent bottles)
	38	Glass Jars/ Bottles Misc.	Other Containers	Glass	Glass jars/bottles not described above
	39	Cans - Steel	Other Containers	Metal	Steel food/non-food containers
	40	Cans - Aluminum	Other Containers	Metal	Aluminum food/non-food containers
	41	Container Lids	Other Containers		All lids, closures, and pieces > 4 sq. in.
	42	Aerosol Cans (Paint, Oils, Etc.)	Other Containers	Metal	Aerosol cans, tops, lids - all products
7	43	Paper Food Wrap	Food Wraps/Containers	Paper	Commercial/Non-commercial food wrap (e.g., meat wrap)
	44	Paper / Foil Composite Wrap	Food Wraps/Containers	Composite	Wrap for food/non-food (e.g., hamburger paper/foil)
	45	Plastic Wrap	Food Wraps/Containers	Plastic	All plastic wrap types, food, non-food
	54	Condiment Package (Salt, Etc.)	Take-Out Extras		Pouches (e.g., ketchup, salt), containers, creamers
	55	Utensils	Take-Out Extras	Plastic	Forks, knives, chop sticks etc.
	56	Branded Fast Food Towels/Napkins	Take-Out Extras	Paper	Towels & napkins with identifiable brand
	57	Paper Fast Food Plates	Take-Out Extras	Paper	Paper Plates used to serve fast food
	58	Poly Fast Food Plates	Take-Out Extras	Plastic	Polystyrene Plates used to serve fast food
	59	Other Plastic Fast Food Plates	Take-Out Extras	Plastic	Other Material Plates used to serve fast food

	60	Plates - Other Materials	Take-Out Extras		Plates - not fast food (e.g., picnic plates)
8	46	Polystyrene Trays	Trays	Plastic	Take-out/non-take out, microwavable, display trays
	47	Paper Trays	Trays	Paper	Take-out/non-take out, microwavable, display trays
	48	Other Material Trays	Trays		Take-out/non-take out, microwavable, display trays
9	49	Gum Wrappers	Confectionary/ Snack		Packaging used to seal, sell gum products
	50	Candy Bar Wraps	Confectionary/ Snack		Packaging used to seal, sell candy products
	51	Candy Pouches	Confectionary/ Snack		Packaging used to seal, sell candy products
	52	Sweet Packaging (Describe)	Confectionary/ Snack		Packaging used to seal confections (e.g., cakes)
	53	Other Confectionery (Describe)	Confectionary/ Snack		All other packaging for confectionaries
	63	Snack Food Packaging	Confectionary/ Snack		All snack food (e.g., chips)
10	61	Clothing Or Clothing Pieces	Cloth		All cloth, clothing pieces, and clothing discarded on site
	62	Other Cloth	Cloth		Tarps, industrial fabrics etc.
11	64	Plastic Packaging - Other	Other Miscellaneous	Plastic	Plastic packaging otherwise not described
	65	Paper Packaging - Other	Paper/ Fibre Material	Paper	Paper packaging otherwise not described
	66	Plastic/Composite - Other	Other Miscellaneous		All paper and composite debris not previously described
	67	Foil Materials/Foil Pieces	Other Miscellaneous	Metal	Foils and pieces, aluminum food foils, industrial foils
12	68	Non-Brand Towels / Napkins	Paper/ Fibre Material	Paper	Napkins and towels - no brand identification
	69	Lottery Ticket Debris	Paper/ Fibre Material	Paper	Tickets, and gaming items
	70	Printed Material (Newspapers, Etc.)	Paper/ Fibre Material	Paper	Commercially printed materials (newspapers, flyers, etc.)
	71	Stationary (School, Business Etc.)	Paper/ Fibre Material	Paper	School papers, business forms, etc.
	72	Receipts (Business, Transfers, Etc.)	Paper/ Fibre Material	Paper	Receipts, tickets, bus transfers, invoices, packing slips
13	73	Cigarette / Cigar Debris (>4")	Tobacco		Tobacco items
	74	Tobacco Pckg (Packs, Matches,	Tobacco		Tobacco packaging, matches, lighters, matchboxes
14	76	Misc. Paper	Other Miscellaneous	Paper	All other paper whole or shredded, unidentifiable
	77	Misc. Plastic	Other Miscellaneous	Plastic	All other plastic whole or shredded, unidentifiable
	78	Misc. Paperboard	Other Miscellaneous	Paper	All other paperboard whole or shredded, unidentifiable
	79	Misc. Cardboard	Other Miscellaneous	Paper	All other cardboard whole or shredded, unidentifiable

80	Misc Glass	Other Miscellaneous	Glass	All other glass, whole or broken, unidentifiable
81	Vehicle & Metal Road Debris	Other Miscellaneous		Debris associated with transportation
82	Construction Debris	Other Miscellaneous		Debris associated with construction
83	Tire & Rubber Debris	Other Miscellaneous	Rubber	Rubber Sheets/ Pieces/ tire pieces/ shock absorbers
84	Home Articles	Other Miscellaneous		All non-described household items, (e.g., lamps, etc.)
85	Food & Other Organics	Other Miscellaneous		All unpackaged food, and other organics such as pet waste.

### Branded Litter

Branded Litter is described as any large litter (i.e. over 4 square inches) that has a recognizable brand name affixed. Any large branded litter item observed during the audit will be recorded on the Site Surveyor-Large Item and Branded Litter Count form (Appendix 1) beside the appropriate category.

### Classification of Small Litter

Small litter is defined as those pieces of debris that are less than 4 square inches in size. It is classified under 16 categories, as listed in Table 2 below. The small litter audit involves examining three segments, or slices taken through the audit site. The successful bidder shall construct a frame for each audit team, using ½ inch P.V.C. plastic tubing (or a similar material) to act as the template. This frame shall measure 1 foot wide and 6 feet long. Three successive “flips” of the frame will complete crossing the site to the 18 foot boundary of the site. The litter auditor will observe and count all the small litter contained within the frames at three locations within each site: at the start, mid-point and end of the site. At each segment three flips of the frame will be analyzed, thus surveying a total of 18 square feet segment for a total of 54 feet of the entire site. See Figure 4 for a depiction of the site setup for the small litter survey. The Site Surveyor Form – Small Litter Count Sheet will be used to record the findings for each site

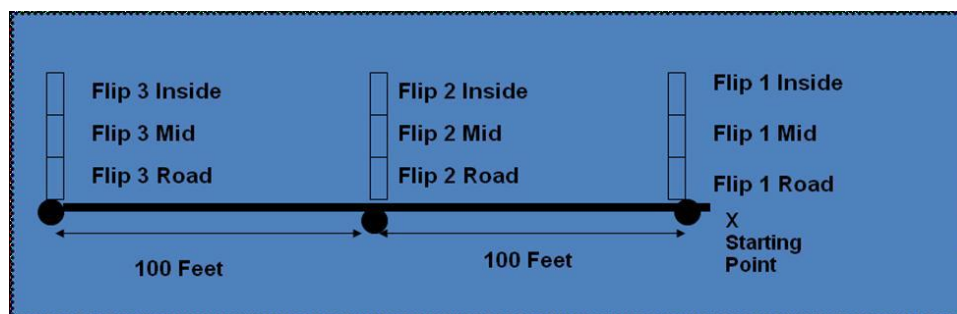


Figure 3: Site Set up Small Litter

### Small Litter Categories

1. cigarette butts/ debris
2. other tobacco
3. bottle caps
4. straws
5. candy packaging & wrappers
6. polystyrene packing materials, ie. foam peanuts
7. other polystyrene debris, ie. poly foam pieces
8. glass
9. paper
10. plastic film
11. hard plastic
12. aluminum / foil debris
13. rubber
14. metal (not aluminum)
15. other material
16. chewing gum (stuck on pavement)
17. Food & Other Organics

APPENDIX D

FIELD FORMS

## Site Surveyor Form – Large Items and Branded Litter Count

Date: \_\_\_\_\_ (DD/MM/YYYY) Start Time: \_\_\_\_\_ (AM/PM) End Time: \_\_\_\_\_ (AM/PM)

Team ID \_\_\_\_\_ Surveyors Names: \_\_\_\_\_

Site ID Number: \_\_\_\_\_ Site Name: \_\_\_\_\_

Site type: Fixed  Variable  Site length: **Always 200 feet long**

**If variable:**

Width 1 - Start: \_\_\_\_\_ ft. (up to 18ft.)

Width 2 - Middle: \_\_\_\_\_ ft. (up to 18ft.)

Width 3 - End: \_\_\_\_\_ ft. (up to 18ft.)

Road type (check one): Major City Street  Minor City Street  Laneway

Is roadway divided: Y / N

Number of Lanes: 2  4  6  Other  (explain): \_\_\_\_\_

**Area Attributes:**

Commercial  Residential  Industrial  Parkland

Grass Height (Check one): N/A  < 3 inches  3" – 6"  over 6"

Fast food within sight: Y / N Name of fast food: \_\_\_\_\_

Convenience store within sight: Y / N

Mobile Food Vendor within sight: Y / N

Bench or other resting structure within sight: Y / N

Bus stop within sight: Y / N

Traffic light or stop sign within sight? Y / N

City street/park litter bin within sight: Y / N

City street/park litter bin details: \_\_\_\_\_

Evidence of litter cleanup? Y / N

Cleanup details: \_\_\_\_\_

Catch point: fence  hedge  curb  grass line  tree line  other  \_\_\_\_\_

Details: \_\_\_\_\_

# Photos Taken: \_\_\_\_\_

Visual rating of site (1 = cleanest, ie. <5 large pieces of litter; 4 = dirtiest, ie. >20 large pieces of litter) \_\_\_\_\_

Additional comments: \_\_\_\_\_

**Site Surveyor Form - Small Litter (<4") Count Sheet**

Date (DD/MM/YY): \_\_\_\_\_

Start Time: \_\_\_\_\_

End Time: \_\_\_\_\_

Team ID: \_\_\_\_\_

Surveyors Names: \_\_\_\_\_

Site ID Number: \_\_\_\_\_

Site Name: \_\_\_\_\_

		Section #1*				Section #2				Section #3				
SMALL LITTER CATEGORY	Item	Flip 1	Flip 2	Flip 3	Total	Flip 1	Flip 2	Flip 3	Total	Flip 1	Flip 2	Flip 3	Total	Grand Total
Cigarette butts/debris	1													
Other tobacco	2													
Bottle caps	3													
Straws	4													
Candy packaging and wrappers	5													
Polystyrene packing materials, ie. foam peanuts	6													
Other polystyrene debris, ie. poly foam pieces	7													
Glass	8													
Paper	9													
Plastic film	10													
Hard plastic	11													
Aluminum/foil debris	12													
Rubber	13													
Metal (not aluminum)	14													
Other material	15													
Chewing gum (stuck on pavement)	16													
Food & Other Organics	17													

\*closest to vehicle/starting point



Site ID Number: \_\_\_\_\_

Date: \_\_\_\_\_

### Large Items and Branded Litter Count Form

	<b>CATEGORY</b>	<b>Pass 1</b>	<b>Total</b>	<b>Pass 2</b>	<b>Total</b>	<b>BRAND NAMES OBSERVED</b>
1	Beer Cans					
2	Beer Bottles (glass)					
3	Soft Drink (glass)					
4	Soft Drink (cans)					
5	Soft Drink (plastic)					
6	Sport Drink (glass)					
7	Sport Drink (plastic)					
8	Water (glass)					
9	Water (plastic)					
10	Wine/ Liquor (glass)					
11	Wine/ Liquor (plastic/other)					
12	Milk/Juice (Plastic)					
13	Milk/Juice (glass)					
14	Milk/Juice (Gable Top)					
15	Foil Pouches					
16	Aseptic (Box)					
17	Broken Glass Container					
18	Six pack plastic rings					
19	Plastic drink cups					
20	Paper Cups (cold)					
21	Paper Cups (Hot)					
22	Polystyrene cups (foam)					
23	Other paper cups					
24	Cup Lids, Pieces lids					
25	Plastic retail bags					
26	Paper retail bags					
27	Paper bags – fast food					
28	Plastic bags – not retail					
29	Paper bags - not retail					
30	Zipper bags/ sandwich					
31	Cardboard boxes/ box mat'l					
32	Paperboard (cereal type)					
33	Paper Beverage Cases					
34	Polystyrene clamshells					
35	Paper clamshells					
36	Other Plastic Shells/Boxes					
37	Plastic Jars / Bottles/ Lids					
38	Glass jars/ bottles misc.					
39	Cans – steel					
40	Cans – aluminium (not beverage)					
41	Container lids					
42	Aerosol cans (paint, oils, etc.)					
43	Paper Food Wrap					
44	Paper / Foil composite wrap					

Site ID Number: \_\_\_\_\_

Date: \_\_\_\_\_

	<b>CATEGORY</b>	<b>Pass 1</b>	<b>Total</b>	<b>Pass 2</b>	<b>Total</b>	<b>BRAND NAMES OBSERVED</b>
45	Plastic wrap					
46	Polystyrene Trays					
47	Paper Trays					
48	Other Mat'l Trays					
49	Gum wrappers					
50	Candy bar wraps					
51	Candy pouches					
52	Sweet packaging (describe)					
53	Other confectionery (describe)					
54	Condiment package (salt, ketchup, vinegar etc.)					
55	Utensils					
56	Name Brand (Fast Food etc.) Towels / Napkins / Serviettes					
57	Paper Fast Food Plates					
58	Poly Fast Food Plates					
59	Other Plastic FF Plates					
60	Plates - Other Materials					
61	Clothing or clothing pieces					
62	Other cloth					
63	Snack food packaging					
64	Plastic packaging other					
65	Paper packaging other					
66	Plastic / composite other					
67	Foil materials / foil pieces					
68	No Brand Name Towels / Napkins / Serviettes					
69	Lottery ticket debris					
70	Printed material (newspapers, flyers, books etc.)					
71	Stationary(school, bus. etc.)					
72	Receipts (business forms , bus transfers etc. )					
73	Cigarette / cigar debris (>4")					
74	Tobacco other (packs, matches, cellophane)					
75	Foil containers					
76	Misc. Paper					
77	Misc. Plastic					
78	Misc. Paperboard					
79	Misc. Cardboard					
80	Misc. Glass					
81	Vehicle & Metal Road Debris					
82	Construction debris					
83	Tire & Rubber debris					
84	Home Articles					
85	Food & Other Organics					
86	Popsicle Sticks					
87	Other Materials					

APPENDIX E

LARGE LITTER DATA

#	Large Litter Items	2016 Count	2016 Percent
1	No Brand Name Towels / Napkins / Serviettes	571.5	14.9%
2	Cup Lids, Pieces Lids, Straws	246.5	6.4%
3	Receipts (business forms, bus transfers, etc)	236	6.2%
4	Plastic Packaging Other	235	6.1%
5	Tobacco Other (packs, matches, cellophane)	219	5.7%
6	Printed Material (newspapers, flyers, books etc.)	215.5	5.6%
7	Misc. Plastic	189	4.9%
8	Misc. Paper	113	2.9%
9	Snack Food Packaging	100	2.6%
10	Water (Plastic)	97.5	2.5%
11	Other Materials	94.5	2.5%
12	Paper Cups (Hot)	86.5	2.3%
13	Construction Debris	81.5	2.1%
14	Food / Other Organics	79.5	2.1%
15	Plastic Bags - Not Retail	67	1.7%
16	Paper Packaging Other	66.5	1.7%
17	Paperboard (Cereal Type)	64.5	1.7%
18	Plastic Wrap	62	1.6%
19	Soft Drink (Cans)	58	1.5%
20	Home Articles	51	1.3%
21	Plastic Drink Cups	43.5	1.1%
22	Paper Bags - Fast Food	40.5	1.1%
23	Foil Materials/Foil Pieces	37	1.0%
24	Condiment Package (salt, ketchup, vinegar, etc.)	33.5	0.9%
25	Utensils	32.5	0.8%
26	Tire & Rubber Debris	32.5	0.8%
27	Vehicle & Metal Road Debris	32	0.8%
28	Paper Food Wrap	31	0.8%
29	Clothing Or Clothing Pieces	30	0.8%
30	Paper / Foil Composite Wrap	29	0.8%
31	Sweet Packaging (Describe)	29	0.8%
32	Other Cloth	27.5	0.7%
33	Stationary (school, bus, etc.)	27	0.7%
34	Candy Bar Wraps	26.5	0.7%
35	Plastic Retail Bags	26	0.7%
36	Misc. Glass	26	0.7%
37	Aseptic (Box)	25	0.7%
38	Gum Wrappers	24	0.6%
39	Plastic Jars / Bottles / Lids	23.5	0.6%
40	Cardboard Boxes/ Box Material	23.5	0.6%
41	Name Brand FF Towels/Napkins	21.5	0.6%
42	Paper Cups (Cold)	21	0.5%
43	Soft Drink (Plastic)	19.5	0.5%
44	Zipper Bags/ Sandwich	19	0.5%
45	Popsicle Sticks	18	0.5%
46	Polystyrene Trays	17	0.4%

#	Large Litter Items	2016 Count	2016 Percent
47	Misc. Paperboard	15.5	0.4%
48	Polystyrene Cups (Foam)	14.5	0.4%
49	Candy Pouches	13	0.3%
50	Other Confectionery (Describe)	13	0.3%
51	Milk/Juice (Plastic)	11.5	0.3%
52	Paper Beverage Cases	11.5	0.3%
53	Polystyrene Clamshells	11	0.3%
54	Paper Clamshells	8.5	0.2%
55	Lottery ticket debris	8	0.2%
56	Sport Drink (Plastic)	7.5	0.2%
57	Paper Retail Bags	7	0.2%
58	Paper Bags - Not Retail	7	0.2%
59	Misc. Cardboard	7	0.2%
60	Beer Cans	6	0.2%
61	Container Lids	6	0.2%
62	Other Paper Cups	5	0.1%
63	Cans - steel	4	0.1%
64	Aerosol cans (paint, oils, etc.)	4	0.1%
65	Plastic / composite other	4	0.1%
66	Soft Drink (Glass)	3	0.1%
67	Glass jars / bottles misc.	3	0.1%
68	Paper Fast Food Plates	3	0.1%
69	Beer Bottles (Glass)	2	0.1%
70	Sport Drink (Glass)	2	0.1%
71	Milk/Juice (Gable Top)	2	0.1%
72	Foil Pouches	2	0.1%
73	Wine/ Liquor (Glass)	1	0.0%
74	Wine/ Liquor (Plastic/Other)	1	0.0%
75	Milk/Juice (Glass)	1	0.0%
76	Cans - aluminum (not beverage)	1	0.0%
77	Broken Glass Container	0.5	0.0%
78	Water (Glass)	0	0.0%
79	Six Pack Plastic Rings	0	0.0%
80	Foil Containers	0	0.0%
81	Other Plastic Shells/Boxes	0	0.0%
82	Poly Fast Food Plates	0	0.0%
83	Other plastic FF plates	0	0.0%
84	Plates - Other Mat'l	0	0.0%
85	Paper Trays	0	0.0%
86	Other Mat'l Trays	0	0.0%
87	Cigarette / Cigar Debris (>4")	0	0.0%
<b>Total Top 20</b>		<b>2,934.0</b>	<b>76.5%</b>
<b>Total - All Large Litter</b>		<b>3,835.0</b>	<b>100.0%</b>

Large Litter	Tor-16	Tor-14	Tor-12	Tor-06	Tor-04	Tor-02
Aerosol cans (paint, oils, etc.)	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
Aseptic (Box)	0.7%	0.2%	0.4%	0.3%	0.5%	0.5%
Beer Bottles (Glass)	0.1%	0.0%	0.1%	0.1%	0.2%	0.1%
Beer Cans	0.2%	0.1%	0.2%	0.1%	0.0%	0.2%
Broken Glass Container	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%
Candy Bar Wraps	0.7%	1.1%	2.3%	3.2%	2.9%	3.0%
Candy Pouches	0.3%	0.7%	0.5%	0.4%	2.2%	1.1%
Cans - aluminum (not beverage)	0.0%	0.0%	0.5%	0.1%	0.1%	0.2%
Cans - steel	0.1%	0.1%	0.1%	0.2%	0.1%	0.0%
Cardboard Boxes/ Box Material	0.6%	0.5%	0.5%	0.8%	0.1%	0.4%
Cigarette / Cigar Debris (>4")	0.0%	0.1%	0.6%	2.2%	0.2%	1.2%
Clothing Or Clothing Pieces	0.8%	0.7%	0.4%	0.7%	0.4%	0.2%
Condiment Package (salt, ketchup, vinegar, etc.)	0.9%	0.5%	0.5%	0.3%	1.4%	1.0%
Construction Debris	2.1%	2.5%	1.3%	4.1%	0.6%	3.1%
Home Articles	1.3%	1.5%	2.9%	1.5%	3.5%	
Tire & Rubber Debris	0.8%	0.9%	0.6%	0.3%	0.4%	
Container Lids	0.2%	0.1%	0.1%	0.2%	0.1%	0.4%
Cup Lids, Pieces Lids, Straws	6.4%	5.4%	8.5%	2.1%	3.2%	2.7%
Name Brand FF Towels/Napkins	0.6%	0.2%	0.3%	0.5%	0.3%	0.4%
Foil Containers	0.0%	0.2%	0.0%	0.0%	0.1%	0.1%
Foil Materials/Foil Pieces	1.0%	0.7%	1.6%	0.8%	1.9%	4.5%
Foil Pouches	0.1%	0.2%	0.1%	0.1%	0.1%	0.0%
Glass jars / bottles misc.	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%
Gum Wrappers	0.6%	1.2%	0.8%	1.5%	2.6%	2.0%
Lottery ticket debris	0.2%	0.4%	0.7%	0.3%	0.7%	0.4%
Milk/Juice (Gable Top)	0.1%	0.1%	0.1%	0.3%	0.2%	0.1%
Milk/Juice (Glass)	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%
Milk/Juice (Plastic)	0.3%	0.6%	0.5%	0.1%	0.1%	0.1%
Misc. Glass	0.7%	0.1%	0.2%	0.6%	0.1%	1.2%
Misc. Cardboard	0.2%	0.0%	0.4%	0.6%	0.8%	21.2%
Misc. Paper	2.9%	3.1%	21.5%	18.6%	14.8%	
Misc. Paperboard	0.4%	0.1%	1.0%	1.1%	0.5%	
Misc. Plastic	4.9%	8.0%	11.7%	10.9%	5.0%	3.7%
Printed Material (newspapers, flyers, books etc)	5.6%	5.3%	1.4%	4.8%	7.7%	9.4%
Other Cloth	0.7%	0.9%	0.8%	1.0%	0.7%	0.5%
Other Confectionery (Describe)	0.3%	0.1%	0.7%	0.3%	0.2%	1.8%
Other Mat'l Trays	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
Other Paper Cups	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Other Plastic Shells/Boxes	0.0%	0.2%	0.6%	0.2%	0.1%	0.2%
Paper / Foil Composite Wrap	0.8%	0.8%	0.3%	1.5%	0.3%	0.4%
Paper Bags - Fast Food	1.1%	0.9%	0.5%	0.9%	0.4%	0.5%
Paper Bags - Not Retail	0.2%	0.3%	0.1%	0.4%	0.3%	0.4%
Paper Beverage Cases	0.3%	0.2%	0.1%	0.0%	0.0%	0.0%
Paper Clamshells	0.2%	0.0%	0.0%	0.1%	0.1%	0.0%
Paper Cups (Cold)	0.5%	0.8%	1.3%	0.8%	0.7%	0.5%
Paper Cups (Hot)	2.3%	2.8%	1.7%	2.6%	2.0%	1.4%
Paper Fast Food Plates	0.1%	0.0%	0.2%	0.0%	0.1%	0.0%
Paper Food Wrap	0.8%	1.2%	1.0%	0.3%	0.5%	0.6%
Paper Packaging Other	1.7%	1.0%	0.8%	0.3%	0.5%	1.0%
Paper Retail Bags	0.2%	0.2%	0.2%	0.1%	0.2%	0.1%

Large Litter	Tor-16	Tor-14	Tor-12	Tor-06	Tor-04	Tor-02
Paper Trays	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%
Paperboard (Cereal Type)	1.7%	1.6%	0.8%	1.2%	0.3%	0.2%
Plastic / composite other	0.1%	0.1%	0.2%	0.3%	0.5%	3.3%
Plastic Bags - Not Retail	1.7%	0.8%	0.9%	1.5%	1.8%	1.0%
Plastic Drink Cups	1.1%	0.8%	1.3%	0.7%	0.9%	0.2%
Plastic Jars / Bottles / Lids	0.6%	0.3%	0.3%	0.1%	0.7%	1.0%
Plastic Packaging Other	6.1%	1.4%	2.7%	0.8%	2.4%	5.6%
Plastic Retail Bags	0.7%	0.7%	0.8%	0.1%	0.2%	0.6%
Plastic Wrap	1.6%	6.2%	2.3%	2.1%	2.2%	0.2%
Plates - Other Mat'l	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Polystyrene Clamshells	0.3%	0.3%	0.2%	0.0%	0.1%	0.7%
Polystyrene Cups (Foam)	0.4%	0.6%	0.8%	0.9%	0.6%	0.8%
Receipts (business forms, bus transfers, etc)	6.2%	6.4%	2.6%	4.4%	6.0%	1.1%
Six Pack Plastic Rings	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%
Snack Food Packaging	2.6%	1.5%	1.2%	0.3%	0.6%	0.3%
Soft Drink (Cans)	1.5%	1.4%	1.4%	2.9%	2.3%	2.4%
Soft Drink (Glass)	0.1%	0.1%	0.1%	0.2%	0.0%	0.0%
Soft Drink (Plastic)	0.5%	0.4%	0.8%	1.0%	0.2%	0.4%
Sport Drink (Glass)	0.1%	0.0%	0.0%	0.1%	0.0%	0.1%
Sport Drink (Plastic)	0.2%	0.2%	0.2%	0.3%	0.1%	0.1%
Stationary (school, bus, etc.)	0.7%	2.5%	0.4%	0.1%	0.7%	1.6%
Sweet Packaging (Describe)	0.8%	1.4%	0.9%	1.1%	1.4%	0.6%
Tobacco Other (packs, matches, cellophane)	5.7%	4.4%	2.6%	1.5%	8.8%	2.5%
No Brand Name Towels / Napkins / Serviettes	14.9%	14.0%	6.5%	10.6%	10.1%	8.8%
Utensils	0.8%	0.7%	0.7%	0.4%	0.4%	1.3%
Vehicle & Metal Road Debris	0.8%	1.5%	0.6%	0.8%	0.5%	0.9%
Water (Glass)	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
Water (Plastic)	2.5%	3.0%	2.6%	2.6%	1.3%	0.6%
Wine/ Liquor (Glass)	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
Wine/ Liquor (Plastic/Other)	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
Zipper Bags/ Sandwich	0.5%	0.6%	0.3%	0.3%	0.4%	0.4%
Poly Fast Food Plates	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
Polystyrene Trays	0.4%	0.1%	0.1%	0.1%	0.1%	0.0%
Other plastic FF plates	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Food / Other Organics	2.1%	3.7%	n/a	n/a	n/a	n/a
Popsicle Sticks	0.5%	0.1%	n/a	n/a	n/a	n/a
Other Materials	2.5%	0.1%	n/a	n/a	n/a	n/a
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

APPENDIX F

SMALL LITTER DATA



Small Litter Items	2016	
	Count	Percent
Chewing gum (stuck on pavement)	893	25.4%
Cigarette butts/debris	783	22.3%
Paper	734	20.9%
Glass	246	7.0%
Hard plastic	227	6.5%
Other material	171	4.9%
Plastic film	106	3.0%
Candy packaging and wrappers	86	2.5%
Aluminum/foil debris	73	2.1%
Metal (not aluminum)	55	1.6%
Food & Other Organics	45	1.3%
Polystyrene packing materials, ie. Foam peanuts	23	0.7%
Other tobacco	22	0.6%
Other polystyrene debris, ie. Poly foam pieces	22	0.6%
Bottle caps	17	0.5%
Straws	4	0.1%
Rubber	2	0.1%
<b>Total Small Litter</b>	<b>3,509</b>	<b>100.0%</b>

<b>Small Litter</b>	<b>Tor-16</b>	<b>Tor-14</b>	<b>Tor-12</b>	<b>Tor-06</b>	<b>Tor-04</b>	<b>Tor-02</b>
Chewing gum (stuck on pavement)	25.4%	32.6%	28.9%	30.9%	0.0%	0.0%
Cigarette butts/debris	22.3%	26.1%	31.3%	14.8%	20.6%	22.5%
Paper	20.9%	16.9%	16.5%	17.3%	31.6%	33.9%
Glass	7.0%	4.7%	2.1%	15.4%	20.6%	13.5%
Hard plastic	6.5%	4.8%	4.9%	3.6%	7.2%	7.1%
Other material	4.9%	2.8%	0.7%	2.5%	3.8%	3.2%
Plastic film	3.0%	2.6%	4.6%	2.8%	4.4%	7.1%
Candy packaging and wrappers	2.5%	2.8%	4.5%	1.6%	3.4%	2.6%
Aluminum/foil debris	2.1%	2.1%	1.1%	2.4%	2.1%	4.0%
Metal (not aluminum)	1.6%	1.5%	0.8%	1.1%	2.3%	1.3%
Food & Other Organics	1.3%	1.1%	0.0%	0.0%	0.0%	0.0%
Polystyrene packing materials, ie. Foam peanuts	0.7%	0.3%	0.4%	2.3%	0.2%	0.9%
Other tobacco	0.6%	0.3%	0.7%	2.4%	1.1%	0.1%
Other polystyrene debris, ie. Poly foam pieces	0.6%	0.4%	2.1%	1.7%	1.0%	2.4%
Bottle caps	0.5%	0.3%	0.9%	0.1%	0.5%	0.5%
Straws	0.1%	0.3%	0.3%	0.4%	0.5%	0.5%
Rubber	0.1%	0.4%	0.1%	0.7%	0.9%	0.3%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

APPENDIX G  
RANKING OF SITES

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
221	199	120
602	300	108.5
124	119	93
4	4	86
153	147	72
150	144	66.5
333	242	54
122	117	52
25	20	51
509	282	50.5
86	81	49
33	28	48
515	288	45
125	120	43
140	134	43
304	219	43
217	195	42
31	26	41
141	135	39
329	239	38
74	69	37
70	65	36
83	78	35.5
313	228	32.5
32	27	32
305	220	31
417	263	30.5
172	166	30
401	248	30
53	48	29
335	244	29
215	193	28
99	94	27
112	107	27

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
260	211	94
332	241	89
305	220	75
261	212	66
602	300	65
259	210	63
301	216	63
36	31	59
515	288	55
21	17	53
57	52	50
300	215	49
111	106	48
69	64	45
141	135	43
304	219	42
524	297	42
165	159	40
49	44	39
124	119	36
137	131	36
336	245	35
329	239	34
129	124	33
309	224	33
120	115	30
306	221	30
153	147	29
40	35	27
114	109	27
313	228	27
520	293	27
52	47	26
59	54	26

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
602	300	173.5
221	199	136
124	119	129
4	4	110
305	220	106
153	147	101
515	288	100
260	211	99
332	241	92.5
304	219	85
141	135	82
150	144	76.5
329	239	72
259	210	70.5
21	17	69.5
111	106	69
261	212	68
69	64	65
301	216	65
333	242	65
25	20	63
86	81	63
36	31	62
524	297	61
313	228	59.5
122	117	59
509	282	56.5
401	248	56
300	215	55
33	28	52
110	105	52
165	159	51.5
57	52	51
125	120	51

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
110	105	26
183	177	26
213	191	26
85	80	25
402	249	25
202	180	24.5
182	176	23.5
508	281	23
161	155	22
100	95	21.5
28	23	21
111	106	21
184	178	21
503	276	21
94	89	20
69	64	20
79	74	20
96	91	19.5
131	125	19.5
142	136	19.5
151	145	19
169	163	19
524	297	19
47	42	18.5
147	141	18.5
222	200	18.5
1	1	18
77	72	18
105	100	18
119	114	18
155	149	18
160	154	18
214	192	18
42	37	17.5

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
60	55	26
110	105	26
169	163	26
254	206	26
310	225	26
323	235	26
401	248	26
4	4	24
251	204	24
318	232	24
119	114	23
28	23	22
77	72	22
112	107	22
330	240	22
155	149	21
179	173	21
161	155	20
182	176	20
210	188	20
504	277	20
55	50	19
172	166	19
324	236	19
24	19	18
183	177	18
212	190	18
222	200	18
307	222	18
408	254	18
32	27	17
315	229	17
328	238	17
1	1	16

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
137	131	51
31	26	49
32	27	49
112	107	49
172	166	49
70	65	48
83	78	46.5
217	195	46
140	134	45
169	163	45
40	35	44
183	177	44
129	124	43.5
182	176	43.5
28	23	43
74	69	43
336	245	43
161	155	42
119	114	41
49	44	40
77	72	40
213	191	40
155	149	39
215	193	39
417	263	38.5
53	48	38
309	224	38
114	109	37
310	225	37
323	235	37
222	200	36.5
99	94	36
254	206	36
335	244	36

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
205	183	17.5
216	194	17.5
40	35	17
21	17	16.5
55	50	15.5
201	179	15.5
308	223	15.5
50	45	15
104	99	15
137	131	15
212	190	15
315	229	15
412	258	15
45	40	14
67	62	14
106	101	14
162	156	14
219	197	14
133	127	13.5
145	139	13.5
115	110	13
175	169	13
179	173	13
424	270	13
2	2	12.5
93	88	12.5
98	93	12
146	140	12
148	142	12
203	181	12
224	202	12
422	268	11.5
30	25	11.5
165	159	11.5

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
56	51	16
92	87	16
152	146	16
221	199	16
224	202	16
54	49	15
256	207	15
317	231	15
86	81	14
105	100	14
106	101	14
108	103	14
115	110	14
213	191	14
334	243	14
513	286	14
131	125	13
184	178	13
211	189	13
412	258	13
508	281	13
12	10	12
25	20	12
61	56	12
70	65	12
7	7	11
83	78	11
158	152	11
215	193	11
312	227	11
333	242	11
424	270	11
502	275	11
117	112	10

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
508	281	36
318	232	35
402	249	35
55	50	34.5
1	1	34
52	47	34
179	173	34
184	178	34
60	55	33
85	80	33
120	115	33
212	190	33
306	221	33
520	293	33
131	125	32.5
105	100	32
315	229	32
210	188	31
202	180	30.5
324	236	30.5
59	54	30
94	89	28
106	101	28
224	202	28
412	258	28
504	277	28
96	91	27.5
142	136	27.5
79	74	27
115	110	27
152	146	27
214	192	26
251	204	26
307	222	26

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
311	226	11.5
324	236	11.5
16	13	11
35	30	11
41	36	11
46	41	11
91	86	11
152	146	11
210	188	11
223	201	11
310	225	11
318	232	11
323	235	11
338	247	11
420	266	11
522	295	11
129	124	10.5
132	126	10.5
51	46	10
73	68	10
107	102	10
114	109	10
156	150	10
173	167	10
207	185	10
208	186	10
220	198	10
254	206	10
257	208	10
516	289	10
56	51	9.5
23	18	9
58	53	9
78	73	9

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
150	144	10
157	151	10
302	217	10
316	230	10
402	249	10
500	273	10
53	48	9
99	94	9
101	96	9
104	99	9
149	143	9
208	186	9
250	203	9
308	223	9
311	226	9
416	262	9
425	271	9
31	26	8
58	53	8
85	80	8
94	89	8
96	91	8
97	92	8
125	120	8
132	126	8
142	136	8
175	169	8
206	184	8
214	192	8
303	218	8
337	246	8
417	263	8
514	287	8
16	13	7

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
56	51	25.5
330	240	25
92	87	24.5
308	223	24.5
104	99	24
151	145	24
328	238	24
424	270	24
100	95	23.5
54	49	23
503	276	23
205	183	22.5
47	42	21.5
24	19	21
175	169	21
408	254	21
42	37	20.5
61	56	20.5
147	141	20.5
311	226	20.5
45	40	20
334	243	20
50	45	19
162	156	19
208	186	19
312	227	19
500	273	19
132	126	18.5
133	127	18.5
145	139	18.5
216	194	18.5
316	230	18.5
16	13	18
46	41	18

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
123	118	9
163	157	9
500	273	9
61	56	8.5
92	87	8.5
181	175	8.5
316	230	8.5
34	29	8
44	39	8
52	47	8
54	49	8
109	104	8
209	187	8
307	222	8
312	227	8
320	233	8
336	245	8
337	246	8
409	255	8
425	271	8
504	277	8
505	278	8
506	279	8
101	96	7.5
127	122	7.5
159	153	7.5
259	210	7.5
421	267	7.5
3	3	7
60	55	7
65	60	7
66	61	7
75	70	7
87	82	7

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
18	15	7
37	32	7
46	41	7
48	43	7
79	74	7
122	117	7
223	201	7
252	205	7
326	237	7
335	244	7
409	255	7
413	259	7
505	278	7
516	289	7
27	22	6
29	24	6
45	40	6
74	69	6
76	71	6
166	160	6
170	164	6
202	180	6
209	187	6
271	214	6
411	257	6
509	282	6
522	295	6
23	18	5
91	86	5
93	88	5
107	102	5
133	127	5
139	133	5
145	139	5

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
160	154	18
223	201	18
256	207	18
93	88	17.5
158	152	17.5
12	10	17
58	53	17
219	197	17
425	271	17
516	289	17
522	295	17
101	96	16.5
67	62	16
91	86	16
148	142	16
317	231	16
337	246	16
513	286	16
201	179	15.5
416	262	15.5
35	30	15
41	36	15
98	93	15
107	102	15
117	112	15
146	140	15
173	167	15
207	185	15
211	189	15
409	255	15
505	278	15
250	203	14.5
422	268	14.5
7	7	14



<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
89	84	7
144	138	7
258	209	7
328	238	7
426	272	7
511	284	7
521	294	7
80	75	6.5
158	152	6.5
416	262	6.5
37	32	6
116	111	6
126	121	6
139	133	6
171	165	6
270	213	6
300	215	6
334	243	6
410	256	6
418	264	6
519	292	6
520	293	6
43	38	5.5
103	98	5.5
250	203	5.5
12	10	5
18	15	5
39	34	5
113	108	5
117	112	5
121	116	5
136	130	5
154	148	5
177	171	5

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
151	145	5
162	156	5
167	161	5
173	167	5
178	172	5
181	175	5
205	183	5
207	185	5
421	267	5
426	272	5
517	290	5
3	3	4
5	5	4
8	8	4
33	28	4
34	29	4
35	30	4
41	36	4
43	38	4
50	45	4
51	46	4
62	57	4
65	60	4
66	61	4
81	76	4
90	85	4
123	118	4
148	142	4
154	148	4
217	195	4
220	198	4
403	250	4
423	269	4
506	279	4

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
23	18	14
51	46	14
108	103	14
157	151	14
203	181	14
209	187	14
220	198	14
502	275	14
2	2	13.5
30	25	13.5
181	175	13.5
37	32	13
123	118	13
338	247	13
420	266	13
421	267	12.5
18	15	12
34	29	12
73	68	12
257	208	12
426	272	12
506	279	12
149	143	11.5
3	3	11
65	60	11
66	61	11
139	133	11
163	157	11
206	184	11
303	218	11
521	294	11
127	122	10.5
159	153	10.5
44	39	10

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
260	211	5
309	224	5
423	269	5
178	172	4
8	8	4
13	11	4
59	54	4
72	67	4
81	76	4
157	151	4
167	161	4
176	170	4
414	260	4
419	265	4
26	21	3.5
76	71	3.5
332	241	3.5
7	7	3
17	14	3
24	19	3
27	22	3
29	24	3
36	31	3
68	63	3
71	66	3
82	77	3
84	79	3
95	90	3
102	97	3
120	115	3
128	123	3
135	129	3
138	132	3
166	160	3

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
521	294	4
13	11	3
20	16	3
39	34	3
42	37	3
47	42	3
63	58	3
68	63	3
84	79	3
87	82	3
98	93	3
103	98	3
113	108	3
116	111	3
127	122	3
136	130	3
146	140	3
159	153	3
164	158	3
168	162	3
219	197	3
422	268	3
6	6	2
26	21	2
30	25	2
44	39	2
67	62	2
73	68	2
89	84	2
100	95	2
109	104	2
121	116	2
126	121	2
128	123	2

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
78	73	10
87	82	10
109	104	10
156	150	10
302	217	10
514	287	10
43	38	9.5
76	71	9.5
27	22	9
29	24	9
89	84	9
97	92	9
116	111	9
144	138	9
154	148	9
166	160	9
167	161	9
178	172	9
423	269	9
103	98	8.5
8	8	8
39	34	8
48	43	8
75	70	8
81	76	8
113	108	8
126	121	8
136	130	8
258	209	8
270	213	8
271	214	8
320	233	8
326	237	8
411	257	8

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
206	184	3
256	207	3
303	218	3
306	221	3
330	240	3
406	252	3
407	253	3
408	254	3
501	274	3
502	275	3
512	285	3
525	298	3
601	299	3
149	143	2.5
415	261	2.5
5	5	2
20	16	2
64	59	2
134	128	2
143	137	2
164	158	2
211	189	2
251	204	2
261	212	2
271	214	2
301	216	2
403	250	2
405	251	2
411	257	2
507	280	2
510	283	2
513	286	2
514	287	2
523	296	2

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
134	128	2
140	134	2
144	138	2
147	141	2
163	157	2
174	168	2
176	170	2
180	174	2
203	181	2
204	182	2
218	196	2
257	208	2
270	213	2
338	247	2
405	251	2
418	264	2
420	266	2
503	276	2
507	280	2
512	285	2
523	296	2
2	2	1
11	9	1
14	12	1
17	14	1
72	67	1
75	70	1
78	73	1
80	75	1
102	97	1
138	132	1
177	171	1
216	194	1
258	209	1

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
418	264	8
511	284	8
80	75	7.5
13	11	7
121	116	7
170	164	7
252	205	7
413	259	7
519	292	7
5	5	6
68	63	6
84	79	6
171	165	6
176	170	6
177	171	6
403	250	6
410	256	6
26	21	5.5
20	16	5
62	57	5
72	67	5
128	123	5
164	158	5
414	260	5
419	265	5
512	285	5
517	290	5
17	14	4
63	58	4
90	85	4
102	97	4
134	128	4
138	132	4
168	162	4

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
6	6	1
11	9	1
48	43	1
49	44	1
57	52	1
62	57	1
63	58	1
97	92	1
168	162	1
170	164	1
218	196	1
317	231	1
326	237	1
518	291	1
14	12	0
38	33	0
88	83	0
90	85	0
108	103	0
118	113	0
174	168	0
180	174	0
204	182	0
252	205	0
302	217	0
321	234	0
413	259	0
517	290	0
<b>Total</b>	<b>3835</b>	

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
406	252	1
407	253	1
414	260	1
419	265	1
511	284	1
518	291	1
519	292	1
601	299	1
38	33	0
64	59	0
71	66	0
82	77	0
88	83	0
95	90	0
118	113	0
135	129	0
143	137	0
156	150	0
160	154	0
171	165	0
201	179	0
320	233	0
321	234	0
410	256	0
415	261	0
501	274	0
510	283	0
525	298	0
<b>Total</b>	<b>3509</b>	

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
405	251	4
406	252	4
407	253	4
507	280	4
523	296	4
601	299	4
6	6	3
71	66	3
82	77	3
95	90	3
135	129	3
218	196	3
501	274	3
525	298	3
415	261	2.5
11	9	2
64	59	2
143	137	2
174	168	2
180	174	2
204	182	2
510	283	2
518	291	2
14	12	1
38	33	0
88	83	0
118	113	0
321	234	0
<b>Total</b>	<b>7344</b>	

APPENDIX H

BRANDED LITTER DATA

<b>#</b>	<b>Brand Name</b>	<b>Total</b>	<b>Percent (%)</b>
1	Tim Hortons	183	15.8%
2	McDonalds	86	7.4%
3	Nestle	52	4.5%
4	TTC	34	2.9%
5	Belmont	25	2.2%
6	Starbucks	24	2.1%
7	du Maurier	23	2.0%
8	Coca Cola	21	1.8%
9	Excel	19	1.6%
10	Real Canadian Water	12	1.0%
11	Pall Mall Tobacco	11	1.0%
12	Pepsi	11	1.0%
13	President's Choice	11	1.0%
14	Shoppers Drug Mart	11	1.0%
15	Canada Dry	9	0.8%
16	Health Canada	9	0.8%
17	Kirkland	8	0.7%
18	Popeye's Chicken	8	0.7%
19	Solo	8	0.7%
20	Allens	7	0.6%
21	Toronto Parking Authority	7	0.6%
22	BB	6	0.5%
23	Burger King	6	0.5%
24	Crush	6	0.5%
25	Gatorade	6	0.5%
26	Heinz	6	0.5%
27	Aquafina	5	0.4%
28	Bandaid	5	0.4%
29	LD Tobacco	5	0.4%
30	Nestea	5	0.4%
31	OLG	5	0.4%
32	Pizza Nova	5	0.4%
33	Putters	5	0.4%
34	Quaker	5	0.4%

<b>#</b>	<b>Brand Name</b>	<b>Total</b>	<b>Percent (%)</b>
35	Snickers	5	0.4%
36	Subway	5	0.4%
37	Walmart	5	0.4%
38	Cadbury	4	0.3%
39	Compliments	4	0.3%
40	Danone	4	0.3%
41	Dollarama	4	0.3%
42	Duplus	4	0.3%
43	Five Alive	4	0.3%
44	Freezie	4	0.3%
45	General Mills	4	0.3%
46	Great Value	4	0.3%
47	KFC	4	0.3%
48	Metro	4	0.3%
49	Minute Maid	4	0.3%
50	Mr. Freeze	4	0.3%
51	Nature Valley	4	0.3%
52	Next	4	0.3%
53	Wendy's	4	0.3%
54	7 Eleven	3	0.3%
55	A&W	3	0.3%
56	Aero	3	0.3%
57	Air Heads	3	0.3%
58	Allan	3	0.3%
59	Betty Crocker	3	0.3%
60	Booster Juice	3	0.3%
61	Canadian Goose	3	0.3%
62	Christie	3	0.3%
63	Dairy Queen	3	0.3%
64	Dasani	3	0.3%
65	Dentyne	3	0.3%
66	DK's	3	0.3%
67	Double Bubble	3	0.3%
68	Hagan Das	3	0.3%
69	Kit Kat	3	0.3%

<b>#</b>	<b>Brand Name</b>	<b>Total</b>	<b>Percent (%)</b>
70	Kraft	3	0.3%
71	Laker	3	0.3%
72	LCBO	3	0.3%
73	Mars	3	0.3%
74	Rexall	3	0.3%
75	Selection	3	0.3%
76	Skittles	3	0.3%
77	Swiss Deuce	3	0.3%
78	Trident	3	0.3%
79	Wings	3	0.3%
80	7-Up	2	0.2%
81	Activia	2	0.2%
82	Arctic Glacier	2	0.2%
83	Arizona	2	0.2%
84	Aroma	2	0.2%
85	Astro Yogurt	2	0.2%
86	B & H Tobacco	2	0.2%
87	Backwoods	2	0.2%
88	Beer Store	2	0.2%
89	Chapman's	2	0.2%
90	Cheetos	2	0.2%
91	Cineplex	2	0.2%
92	Coffee Time	2	0.2%
93	Delmonte	2	0.2%
94	Discount	2	0.2%
95	Eska	2	0.2%
96	Esso	2	0.2%
97	Ferrero Rocher	2	0.2%
98	Five Gum	2	0.2%
99	Goldfish	2	0.2%
100	Goody	2	0.2%
101	Humber Hospital	2	0.2%
102	IKEA	2	0.2%
103	Indigo	2	0.2%
104	Jack Links Jerky	2	0.2%



<b>#</b>	<b>Brand Name</b>	<b>Total</b>	<b>Percent (%)</b>
105	Johnson & Johnson	2	0.2%
106	Kamagra	2	0.2%
107	Kellogg's	2	0.2%
108	Kisko Freezies	2	0.2%
109	Kopiko	2	0.2%
110	Lays	2	0.2%
111	Lindor Chocolate	2	0.2%
112	Logo	2	0.2%
113	Milk 2 GO	2	0.2%
114	Molson Canadian	2	0.2%
115	Naya	2	0.2%
116	Neilson	2	0.2%
117	No Frills	2	0.2%
118	Ontario College of Teachers	2	0.2%
119	Peter Jackson	2	0.2%
120	Pizza Pizza	2	0.2%
121	RMD Gutkha	2	0.2%
122	San Pellegrino	2	0.2%
123	Saputo	2	0.2%
124	Seda	2	0.2%
125	Sky Flakes	2	0.2%
126	Splenda	2	0.2%
127	Sprite	2	0.2%
128	Stride Gum	2	0.2%
129	Sunrype	2	0.2%
130	Taco Bell	2	0.2%
131	Treasure Mills	2	0.2%
132	Tropicana	2	0.2%
133	Value Village	2	0.2%
134	241 Pizza	1	0.1%
135	Adidas	1	0.1%
136	ARC	1	0.1%
137	Ascott	1	0.1%
138	Aukey	1	0.1%
139	Babybel	1	0.1%

<b>#</b>	<b>Brand Name</b>	<b>Total</b>	<b>Percent (%)</b>
140	Bajard	1	0.1%
141	Barqs	1	0.1%
142	Beaudoin	1	0.1%
143	Becel	1	0.1%
144	Beef Jerky	1	0.1%
145	Belair Direct	1	0.1%
146	Bell	1	0.1%
147	Belview	1	0.1%
148	Bic	1	0.1%
149	Bic Lighter	1	0.1%
150	Biologique	1	0.1%
151	Bounty	1	0.1%
152	Brampton Hospital	1	0.1%
153	Branded Bites	1	0.1%
154	Brisk	1	0.1%
155	Burger Priest	1	0.1%
156	Busta grape	1	0.1%
157	Buyers Market	1	0.1%
158	Cado	1	0.1%
159	Caldens	1	0.1%
160	Calypso	1	0.1%
161	Canada Automatic sprinkler Assoc.	1	0.1%
162	Canada Post	1	0.1%
163	Canadian Classic	1	0.1%
164	Canadian Lights	1	0.1%
165	Captain's Boil	1	0.1%
166	Carmex	1	0.1%
167	Cascades	1	0.1%
168	Centurion	1	0.1%
169	Century 21	1	0.1%
170	Chrysal Clear	1	0.1%
171	Coor's Light	1	0.1%
172	Core	1	0.1%
173	Country Style	1	0.1%
174	Crack-Up Pop Candy	1	0.1%

<b>#</b>	<b>Brand Name</b>	<b>Total</b>	<b>Percent (%)</b>
175	Crema Coffee	1	0.1%
176	Crest	1	0.1%
177	Croley Foods	1	0.1%
178	Crunchie	1	0.1%
179	Dad's	1	0.1%
180	Dare	1	0.1%
181	David's Academy	1	0.1%
182	DC Jeans	1	0.1%
183	DC pay	1	0.1%
184	Deep	1	0.1%
185	Deep Dish	1	0.1%
186	DELL	1	0.1%
187	Detestable Moi	1	0.1%
188	DG	1	0.1%
189	Dior	1	0.1%
190	Dirty Pig	1	0.1%
191	Disney	1	0.1%
192	Ditaliano	1	0.1%
193	Driscolls	1	0.1%
194	Dristan	1	0.1%
195	Dr. Pepper	1	0.1%
196	Drumstick	1	0.1%
197	Duct Tape	1	0.1%
198	Dunhill	1	0.1%
199	Easy mask	1	0.1%
200	Eco Brand	1	0.1%
201	Elaichi	1	0.1%
202	Everest	1	0.1%
203	Export A	1	0.1%
204	Fairlee	1	0.1%
205	Family Mart	1	0.1%
206	FedEx	1	0.1%
207	Fontane sante	1	0.1%
208	Food Basics	1	0.1%
209	Four Points	1	0.1%

<b>#</b>	<b>Brand Name</b>	<b>Total</b>	<b>Percent (%)</b>
210	Fresca	1	0.1%
211	Frog Box	1	0.1%
212	Frog Tape	1	0.1%
213	Fruit 20	1	0.1%
214	Fruitopia	1	0.1%
215	Fuse Restaurant	1	0.1%
216	Galleria	1	0.1%
217	Ghazale	1	0.1%
218	Giant Tiger	1	0.1%
219	Golden Bear	1	0.1%
220	Grace	1	0.1%
221	Griff	1	0.1%
222	H&M	1	0.1%
223	Harvey's	1	0.1%
224	Hero Burger	1	0.1%
225	Hickory Sticks	1	0.1%
226	Hudson Bay	1	0.1%
227	Ice breakers	1	0.1%
228	Ice River	1	0.1%
229	Itzakadoozie	1	0.1%
230	Izze	1	0.1%
231	James Ready	1	0.1%
232	Jamie Maclean	1	0.1%
233	Java Stop	1	0.1%
234	John Player	1	0.1%
235	Jolly Rancher	1	0.1%
236	Juicy Fruit	1	0.1%
237	Jurritos	1	0.1%
238	Just Junk	1	0.1%
239	Kettle Chips	1	0.1%
240	Kikkoman	1	0.1%
241	Klondike Bar	1	0.1%
242	Kool-Aid	1	0.1%
243	Koyo	1	0.1%
244	Krispy Kreme	1	0.1%

<b>#</b>	<b>Brand Name</b>	<b>Total</b>	<b>Percent (%)</b>
245	Krylon	1	0.1%
246	KSNRG	1	0.1%
247	Kyani	1	0.1%
248	Lassonde	1	0.1%
249	Leclerc	1	0.1%
250	Liberte	1	0.1%
251	Lil Honeys Beemaid	1	0.1%
252	Little Ceasar's	1	0.1%
253	Little Trees	1	0.1%
254	Loblaw's	1	0.1%
255	Longos	1	0.1%
256	Lou Lou Magazine	1	0.1%
257	LU	1	0.1%
258	Luso	1	0.1%
259	M&Ms	1	0.1%
260	MADD	1	0.1%
261	Magic	1	0.1%
262	Magic Flakes	1	0.1%
263	MAM	1	0.1%
264	Mamma's Pizza	1	0.1%
265	Marriott	1	0.1%
266	Mason St Bakehouse	1	0.1%
267	Maynard's	1	0.1%
268	MacDonald Tobacco	1	0.1%
269	Melon Big	1	0.1%
270	Menchie's	1	0.1%
271	Mentos	1	0.1%
272	Microban	1	0.1%
273	Mike and Ikes	1	0.1%
274	Miller Genuine Draft	1	0.1%
275	Miss Vickies	1	0.1%
276	Monster	1	0.1%
277	Motts	1	0.1%
278	Mountain Dew	1	0.1%
279	Mr. Freshley's	1	0.1%

<b>#</b>	<b>Brand Name</b>	<b>Total</b>	<b>Percent (%)</b>
280	Mug	1	0.1%
281	Munchies	1	0.1%
282	My Junk	1	0.1%
283	Natrel	1	0.1%
284	Neighbors	1	0.1%
285	Nickelodeon	1	0.1%
286	Nike	1	0.1%
287	No Name	1	0.1%
288	NYX	1	0.1%
289	Old Milwaukee	1	0.1%
290	Paan	1	0.1%
291	Papermate	1	0.1%
292	Payless	1	0.1%
293	Peek Freans	1	0.1%
294	Perrier	1	0.1%
295	Personal Service Coffee	1	0.1%
296	Philip Morris	1	0.1%
297	Pizza Depot	1	0.1%
298	Pizza Napoli	1	0.1%
299	Play Doh	1	0.1%
300	Players	1	0.1%
301	Polar	1	0.1%
302	Pop Shop	1	0.1%
303	Poweraid	1	0.1%
304	Pptapp	1	0.1%
305	Praeventia	1	0.1%
306	Princess Chocolate	1	0.1%
307	Quesada	1	0.1%
308	Reese's	1	0.1%
309	Remax	1	0.1%
310	Ritz	1	0.1%
311	Rockets	1	0.1%
312	Rolo	1	0.1%
313	ROM	1	0.1%
314	Rougemont	1	0.1%

<b>#</b>	<b>Brand Name</b>	<b>Total</b>	<b>Percent (%)</b>
315	Royal LePage	1	0.1%
316	Ruffles	1	0.1%
317	Sanfacon	1	0.1%
318	Schneider's	1	0.1%
319	Scottie's	1	0.1%
320	Senlac Convenience	1	0.1%
321	Shell	1	0.1%
322	Smarties	1	0.1%
323	Smirnoff	1	0.1%
324	Snapple	1	0.1%
325	SONY	1	0.1%
326	Souvlaki express	1	0.1%
327	Sport Chek	1	0.1%
328	Steamwhistle	1	0.1%
329	Studio	1	0.1%
330	Summer Fresh	1	0.1%
331	Sunny D	1	0.1%
332	Swarovski	1	0.1%
333	Sweet Jesus	1	0.1%
334	Swiffer	1	0.1%
335	Swirl Pops	1	0.1%
336	Swiss Chalet	1	0.1%
337	Talking Tom	1	0.1%
338	Tampax	1	0.1%
339	TD Bank	1	0.1%
340	Teva	1	0.1%
341	The Works	1	0.1%
342	Tic Tacs	1	0.1%
343	TIFF	1	0.1%
344	Toms	1	0.1%
345	Toronto Employment Services	1	0.1%
346	Toronto Metro	1	0.1%
347	Toronto Police	1	0.1%
348	Toronto Star	1	0.1%
349	Trophy	1	0.1%

<b>#</b>	<b>Brand Name</b>	<b>Total</b>	<b>Percent (%)</b>
350	Tropical Joe's	1	0.1%
351	Tylenol	1	0.1%
352	Uline	1	0.1%
353	Ultra Fine	1	0.1%
354	Ultralite	1	0.1%
355	Unwrapped	1	0.1%
356	V8	1	0.1%
357	Vantage 9	1	0.1%
358	Vitalife Digestive Wellness	1	0.1%
359	Value Mart	1	0.1%
360	Vans	1	0.1%
361	Visa	1	0.1%
362	Visine	1	0.1%
363	Vita	1	0.1%
364	Vogue Tobacco	1	0.1%
365	Weight Watchers	1	0.1%
366	Welches	1	0.1%
367	WF	1	0.1%
368	Wild North Flowers	1	0.1%
369	Wrigley`s	1	0.1%
370	Yogurt Minis	1	0.1%
371	YOP	1	0.1%
372	York	1	0.1%
373	YUM	1	0.1%
374	Zesta	1	0.1%
375	Ziploc	1	0.1%



APPENDIX @

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Recyclables found in 2016 Litter Audit				
Category:	Sub-Category	Kgs.		Comments:
Paper:				
	Newspaper – Dailys and Weeklys - Other	0.60	4.9%	
	Corrugated - Pizza Boxes, etc	1.88	15.4%	
	Boxboard / Cores	1.09	8.9%	0.62 cigarette packs, 0.47 miscellaneous boxboard
	Magazines & Catalogues	0.19	1.6%	
	Other Paper (includes aseptic containers i.e. molded pulp)	1.99	16.3%	
Plastics:				
	PET Beverage Bottles	1.88	15.4%	
	Laminated/Other Plastic Film and Bags	0.49	4.0%	flexible films and Ziplocs
	Other Plastic Containers	1.17	9.6%	#6 rigid polystyrene, #2 bottles, #6 expanded polystyrene, #5 widemouth containers, #1 PET packaging
Metals:				
	Aluminum Food & Beverage Cans	0.79	6.5%	
	Steel Food & Beverage Cans	0.01	0.1%	1 lid
	Other Metal	0.43	3.5%	0.05 foil, 0.38 steel aerosol
Glass:				
	Clear Glass Alcohol Beverage	0.00	0.0%	
	Coloured Glass Alcohol Beverage	0.57	4.7%	
	Clear and Coloured Glass Other Beverage and Food	1.12	9.2%	
E-Waste				
	E-Waste - All - describe	0.00	0.0%	
	<b>Total</b>	<b>12.21</b>	<b>100.0%</b>	