



City of Toronto

2022 Litter Audit

Prepared for
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 October 3rd through October 13th, 2022, 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. Litter audits were previously completed by the City in 2002, 2004, 2005, 2006, 2012, 2014, 2016 and 2020. The methodology used in this 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.

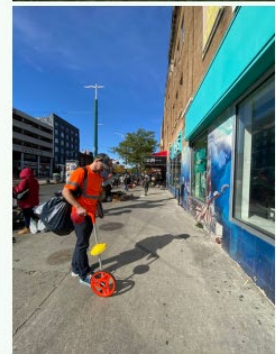
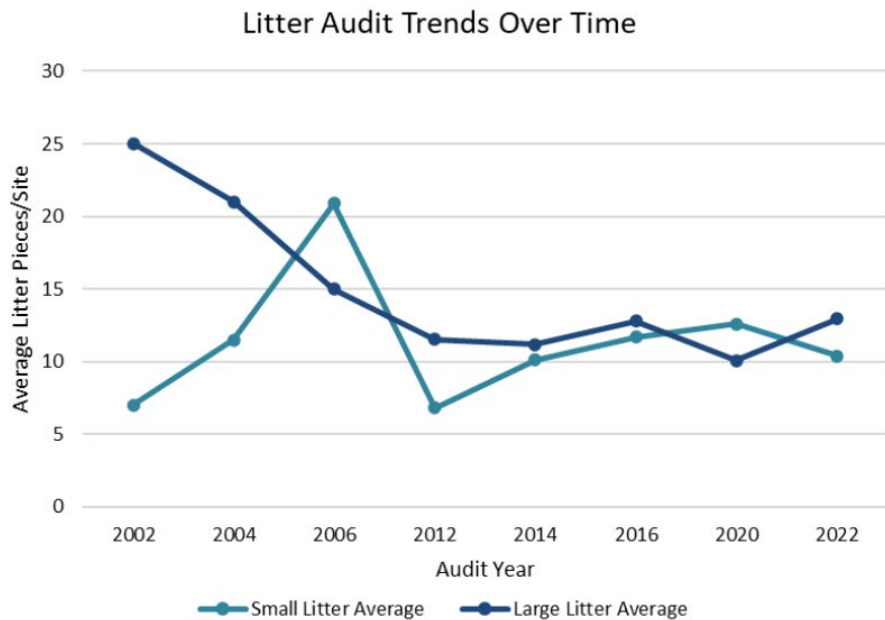
Key findings from the **large litter** audits:

- The average amount of large litter has decreased by 48.2% since the first audit in 2002 (an average of 25 large litter items per site in 2002 compared to 13 in 2022);
- The average amount of large litter has increased from an average of 10 items per site in 2020 to 13 items per site in 2022;
- The total number of large litter items increased by 28.6% from 3,024 items in 2020 to 3,887 items in 2022;
- The number of sites with no large litter recorded decreased from 28 sites in 2020 to 14 sites in 2022;
- The most commonly found item in the large litter audit was non-branded towels/ napkins, representing 10.5% of all large items audited. Other common littered items include miscellaneous paper, at 8.5%, plastic packaging other, at 8.1%, and cup lids and pieces, at 5.5%; and,
- 308 different brands of litter were observed, with Tim Horton's items being the most common, accounting for 20.4% of all branded litter. Other top brand names include: McDonald's at 5.0%, Nestle at 3.3%, Coca Cola at 2.3% and Starbucks at 2.3%; respectively.

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

- The average amount of small litter has decreased from an average of 13 items per site in 2020 to 10 items per site in 2022;
- The total number of small litter items decreased by nearly 18.0% from 3,794 items in 2020 to 3,110 items in 2022; and,
- The most commonly found small litter item was cigarette butts/debris, accounting for 29.6% of all small litter audited, followed by paper at 18.4%. Cigarette butts/debris has fallen in the top two small litter contributors in the 2022, 2020, 2016, 2014 and 2012 litter surveys.

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 9.20 kg of recyclable litter was collected from the 300 litter site locations across the City;
- PET Beverage Bottles was the largest material found, by weight, representing 27.9% of the total recyclable litter audited; and,
- Corrugated cardboard (13.6%), Boxboard/Cores (10.9%), and Aluminum Food and Beverage Cans (9.1%) also made notable contributions to the types of litter.

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 October 3rd through October 13th, 2022, 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 10,900 litter bins throughout the city with receptacles for garbage and recycling. Each street bin also has a receptacle for cigarette butts.

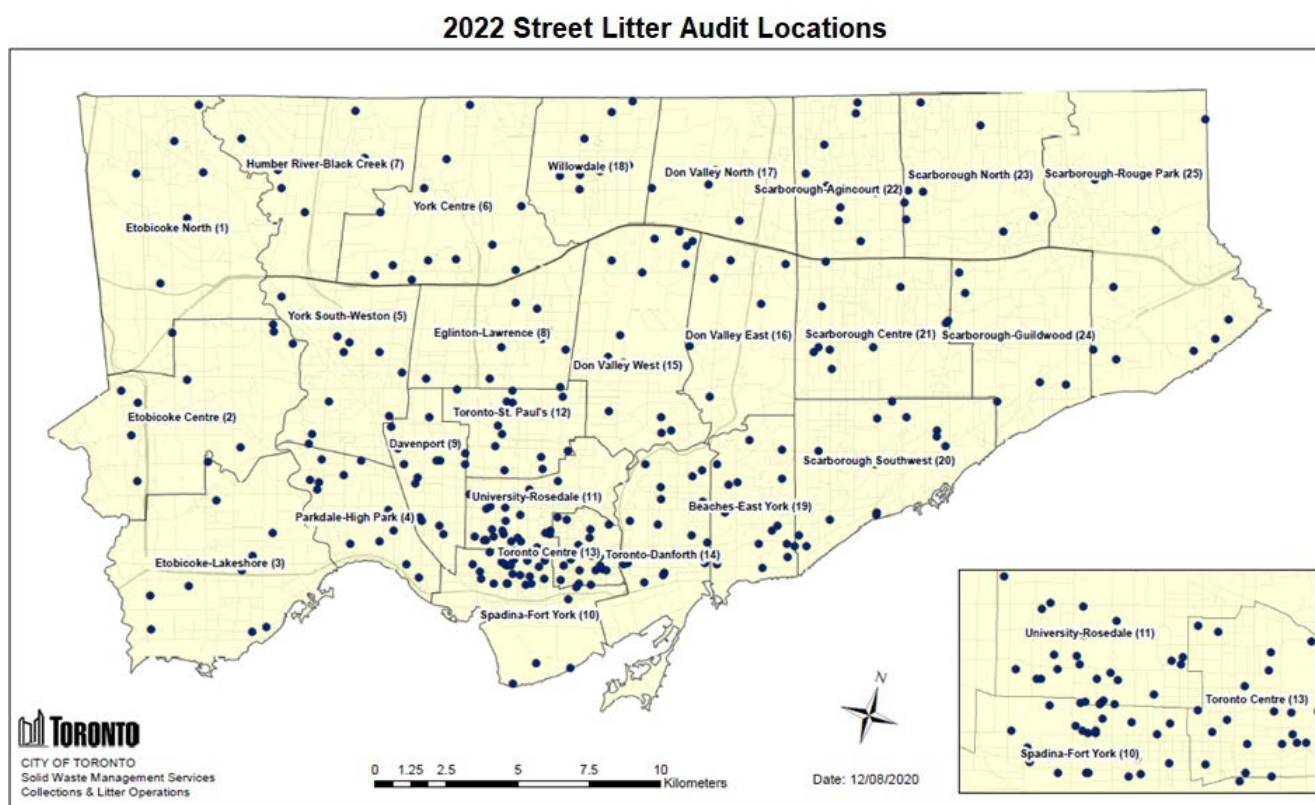


Figure 1.1 Toronto Litter Audit Site Locations

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, 2020 and 2022. There are at least a few sites in each ward, with a higher number of sites in the densely populated downtown core. The audits were conducted from October 3rd through October 13th, 2022, 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 this two-week time period. 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 2022 litter audit was consistent with the methodology used in previous audits, as requested by the City, with some minor material category additions. There are 90 large litter categories and 24 small litter categories. More information about methodology can be found in Appendix C.

Two large litter material categories were added in 2020 (face masks and disposable gloves) due to the trends and new personal protective measures being taken by people travelling throughout public spaces and streetscapes during the COVID-19 pandemic. These categories were also assessed for the 2022 large litter audits.

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 were used to assist the team in getting to each site. Updated GPS coordinates were taken with a handheld Garmin GPS unit if there was any adjustment in the sites starting point. 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 a 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, 68.67% of the audit locations were on minor city streets, 24.33% of the audit locations were on major city streets, and the remaining 7% of the audits were conducted on laneways, boardwalks, alleyways, and walkways. Minor city streets serve low traffic volumes and assist with directing traffic to the nearest collector street. Major city streets often have higher traffic volumes and connect various sections of the City.

The survey only looks at public spaces that are within 18 feet of the roadway. Due to this, the survey did not extend into parks and public space parkettes.

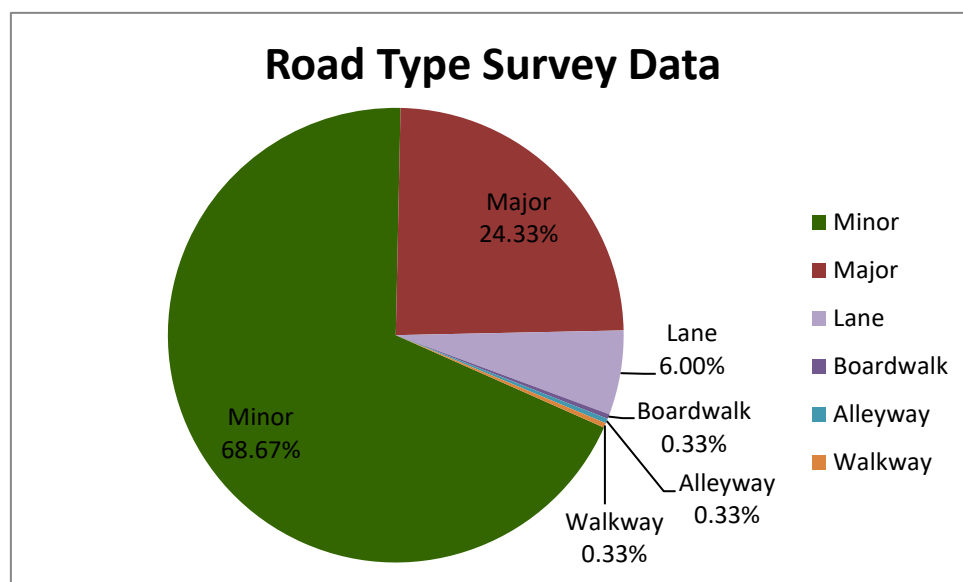


Figure 3.1 Road Type Results – Survey Data

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.

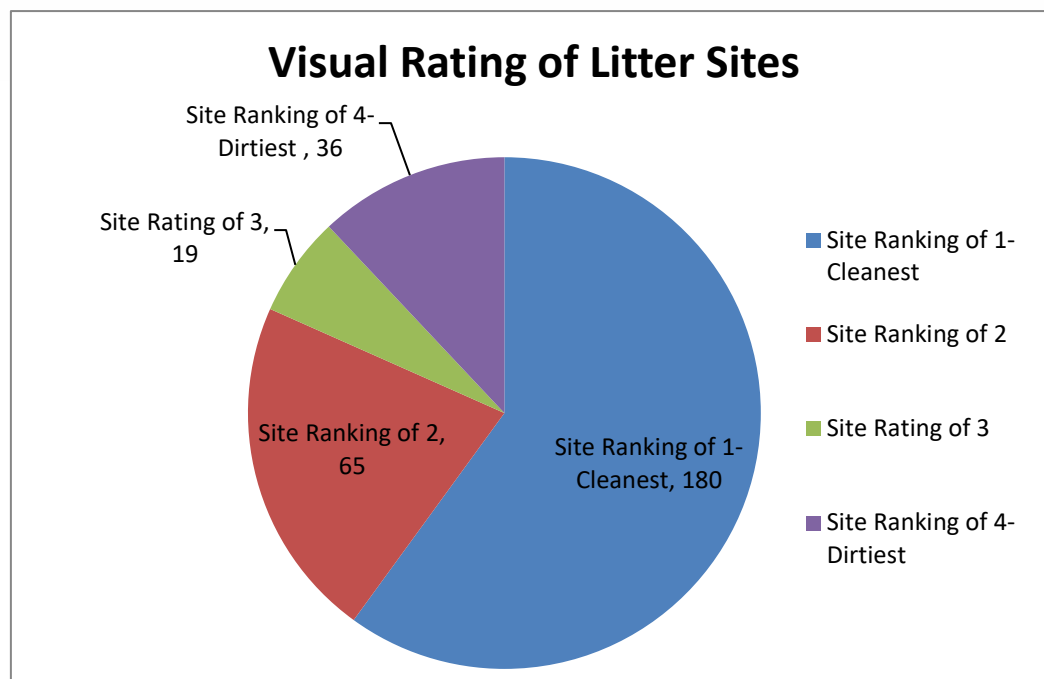


Figure 3.2 Visual Rating Litter Index

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 number of large litter items found at each site has steadily decreased since the first audit (2002), with exceptions in 2016 and 2022. Compared to the last audit in 2020, the average amount of large litter increased from 10 pieces per site to 13 pieces per site during the 2022 audit.

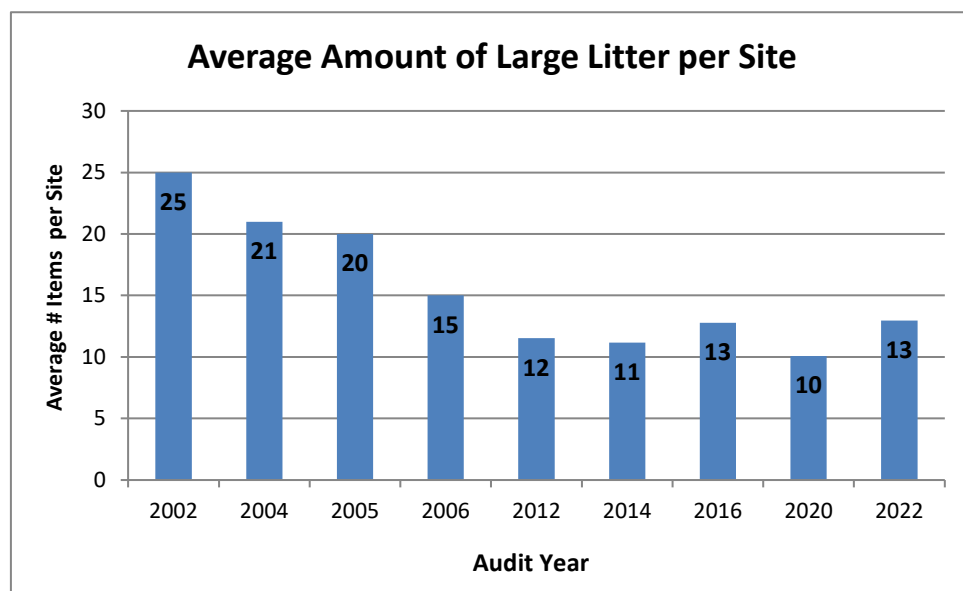


Figure 3.3 Average Amount of Large Litter per Site

The occurrence of the most common type of large litter, non-brand towels/napkins, grew from 9.5% in 2020 to 10.5% in 2022. This item has been one of the top large litter items identified since 2012. Miscellaneous paper was

the second most common type of large litter found at 8.5% in 2022. Other top items included: plastic packaging other (8.1%), cup lids & pieces (5.5%) and receipts (4.5%).

Table 3.1 illustrates the 20 most common items of large litter found during the 2022 audit. These items account for 70.5% of the large litter identified. The complete list of all the items identified during the large litter audit can be found in Appendix E.

As plastic straws were added as a new category, it should be noted that they were counted under category 55e (Straws). Alternate materials are being used to create straws in response to the federal single use plastics ban; paper, bamboo, and metal straws are sustainable alternatives that are known substitutes for plastic. Paper straws may have been encountered during the litter audit and would have been accounted for under category 65 (Paper Packaging Other). Metal and bamboo straws were not seen during the litter audit; these materials are more likely to be found during residential waste audits or IC&I waste audits due to their reusable and durable natures.

Table 3.1 Top 20 Large Litter Items

#	Large Litter Items	2022 Count	2022 %	2020 Count	2020 %	2016 Count	2016 %	2014 Count	2014 %	2012 Count	2012 %
1	No Brand Name Towels / Napkins / Serviettes	407	10.5%	287	9.5%	572	14.9%	468	14.0%	223	6.5%
2	Misc. Paper	330	8.5%	55	1.8%	113	2.9%	105	3.1%	737	21.5%
3	Plastic Packaging Other	315	8.1%	107	3.5%	235	6.1%	47	1.4%	92	2.7%
4	Cup Lids, Pieces Lids, Straws	213	5.5%	136	4.5%	247	6.4%	180	5.4%	292	8.5%
5	Receipts (business forms, bus transfers, etc)	174	4.5%	115	3.8%	236	6.2%	215	6.4%	91	2.6%
6	Misc. Plastic	166	4.3%	135	4.4%	189	4.9%	267	8.0%	397	11.6%
7	Face Masks	119	3.1%	76	2.5%	0	0.0%	0	0.0%	0	0.0%
8	Paper Packaging Other	109	2.8%	46	1.5%	67	1.7%	32	1.0%	31	0.9%
9	Tobacco Other (packs, matches, cellophane)	104	2.7%	137	4.5%	219	5.7%	148	4.4%	90	2.6%
10	Water (Plastic)	97	2.5%	82	2.7%	98	2.5%	101	3.0%	91	2.6%
11	Paper Cups (Hot)	90	2.3%	65	2.1%	87	2.3%	93	2.8%	57	1.7%
12	Plastic Wrap	87	2.2%	79	2.6%	62	1.6%	207	6.2%	79	2.3%
13	Food / Other Organics	81	2.1%	107	3.5%	80	2.1%	123	3.7%	0	0.0%
14	Paperboard (Cereal Type)	69	1.8%	42	1.4%	65	1.7%	53	1.6%	28	0.8%
15	Soft Drink (Cans)	68	1.7%	53	1.7%	58	1.5%	48	1.4%	53	1.5%
16	Printed Material (newspapers, flyers, books etc.)	68	1.7%	119	3.9%	216	5.6%	179	5.3%	49	1.4%
17	Candy Bar Wraps	67	1.7%	30	1.0%	27	0.7%	39	1.1%	81	2.3%
18	Other Materials	63	1.6%	106	3.5%	95	2.5%	4	0.1%	0	0.0%
19	Straws	57	1.5%	109	3.6%	0	0.0%	0	0.0%	0	0.0%
20	Snack Food Packaging	55	1.4%	54	1.8%	100	2.6%	51	1.5%	42	1.2%
Total Top 20		2,739	70.5%	1,935	64.0%	2,761	72.0%	2,355	70.3%	2,429	70.8%
Total - All Large Litter		3,887	100.0%	3,024	100.0%	3,835	100.0%	3,351	100.0%	3,433	100.0%

Note: Plastic Straws were added as a new separate material category in 2020 & 2022. Prior to this, they were counted as "Cup Lids, Pieces Lids, Straws."

Table 3.2 below provides a breakdown of the plastic packaging and products identified in the large litter surveys in 2022, 2020, 2016, 2014 and 2012. It should be noted that additional details on plastic utensils was added for the 2020 and 2022 audit. Prior to 2020, plastic utensils (excluding straws) were categorized as "Utensils" and straws were included in the "Cup Lids, Pieces Lids" category. In 2022, plastic materials accounted for 31.8% of all large litter identified. Of that, Plastic Packaging Other, Cup Lids & Pieces and Miscellaneous Plastic were the top three contributors.

Table 3.2 Plastic Packaging and Products Breakdown

Material Category	2022			2020			2016			2014			2012		
	Number of Items	% of Plastic	% of All Large Litter	Number of Items	% of Plastic	% of All Large Litter	Number of Items	% of Plastic	% of All Large Litter	Number of Items	% of Plastic	% of All Large Litter	Number of Items	% of Plastic	% of All Large Litter
Plastic Packaging Other	315	25.5%	8.1%	107	11.4%	3.5%	235	20.9%	6.1%	47	4.6%	1.4%	92	7.6%	2.7%
Cup Lids, Pieces Lids	213	17.2%	5.5%	136	14.5%	4.5%	247	21.9%	6.4%	180	17.6%	5.4%	292	24.1%	8.5%
Misc. Plastic	166	13.4%	4.3%	135	14.4%	4.4%	189	16.8%	4.9%	267	26.1%	8.0%	397	32.7%	11.6%
Water (Plastic)	97	7.8%	2.5%	82	8.7%	2.7%	98	8.7%	2.5%	101	9.9%	3.0%	91	7.5%	2.6%
Plastic Wrap	87	7.0%	2.2%	79	8.5%	2.6%	62	5.5%	1.6%	207	20.2%	6.2%	79	6.5%	2.3%
Straws	57	4.6%	1.5%	109	11.7%	3.6%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Plastic Drink Cups	49	4.0%	1.3%	51	5.5%	1.7%	44	3.9%	1.1%	26	2.5%	0.8%	46	3.8%	1.3%
Plastic Bags - Not Retail	49	4.0%	1.3%	20	2.1%	0.6%	67	6.0%	1.7%	27	2.6%	0.8%	30	2.5%	0.9%
Zipper Bags/ Sandwich	22	1.8%	0.6%	31	3.3%	1.0%	19	1.7%	0.5%	20	2.0%	0.6%	12	0.9%	0.3%
Plastic Jars / Bottles / Lids	22	1.8%	0.6%	13	1.4%	0.4%	24	2.1%	0.6%	9	0.9%	0.3%	11	0.9%	0.3%
Other Plastic Shells/Boxes	21	1.7%	0.5%	18	1.9%	0.6%	0	0.0%	0.0%	6	0.6%	0.2%	20	1.6%	0.6%
Plastic Retail Bags	20	1.6%	0.5%	38	4.0%	1.2%	26	2.3%	0.7%	24	2.4%	0.7%	29	2.4%	0.8%
Spoons	20	1.6%	0.5%	15	1.6%	0.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Polystyrene Trays	20	1.6%	0.5%	1	0.1%	0.0%	17	1.5%	0.4%	4	0.4%	0.1%	2	0.2%	0.1%
Forks	19	1.5%	0.5%	16	1.7%	0.5%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Milk/Juice (Plastic)	11	0.9%	0.3%	16	1.7%	0.5%	12	1.0%	0.3%	19	1.9%	0.6%	17	1.4%	0.5%
Soft Drink (Plastic)	10	0.8%	0.3%	22	2.4%	0.7%	20	1.7%	0.5%	15	1.5%	0.4%	27	2.2%	0.8%
Sport Drink (Plastic)	9	0.7%	0.2%	10	1.1%	0.3%	8	0.7%	0.2%	6	0.6%	0.2%	7	0.6%	0.2%
Polystyrene Clamshells	9	0.7%	0.2%	6	0.6%	0.2%	11	1.0%	0.3%	11	1.1%	0.3%	9	0.7%	0.2%
Polystyrene Cups (Foam)	8	0.6%	0.2%	12	1.3%	0.4%	15	1.3%	0.4%	21	2.1%	0.6%	26	2.1%	0.8%
Other plastic FF plates	5	0.4%	0.1%	3	0.3%	0.1%	0	0.0%	0.0%	0	0.0%	0.0%	1	0.1%	0.0%
Wine/ Liquor (Plastic/Other)	2	0.2%	0.1%	6	0.6%	0.2%	1	0.1%	0.0%	4	0.4%	0.1%	0	0.0%	0.0%
Six Pack Plastic Rings	2	0.2%	0.1%	0	0.0%	0.0%	0	0.0%	0.0%	3	0.2%	0.1%	2	0.2%	0.1%
Knives	1	0.1%	0.0%	6	0.6%	0.2%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other	1	0.1%	0.0%	5	0.5%	0.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chop sticks	1	0.1%	0.0%	2	0.2%	0.1%	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Poly Fast Food Plates	1	0.1%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%	0	0.0%	0.0%
Utensils	N/A	N/A	N/A	N/A	N/A	N/A	33	2.9%	0.8%	25	2.5%	0.7%	24	2.0%	0.7%
Total	1237	100.0%	31.8%	934	100.0%	30.9%	1124	100.0%	29.3%	1020	100.0%	30.4%	1211	100.0%	35.3%

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, various (could be multiple different types of materials), textiles, organics, electronics and rubber. Figure 3.4 illustrates the most common material types of the 3,887 large litter items audited. Paper is the largest material category representing 39.6% of the materials audited. Plastic is the second largest material category at 31.8%. Various is the third largest category representing 18.3% of the materials audited.

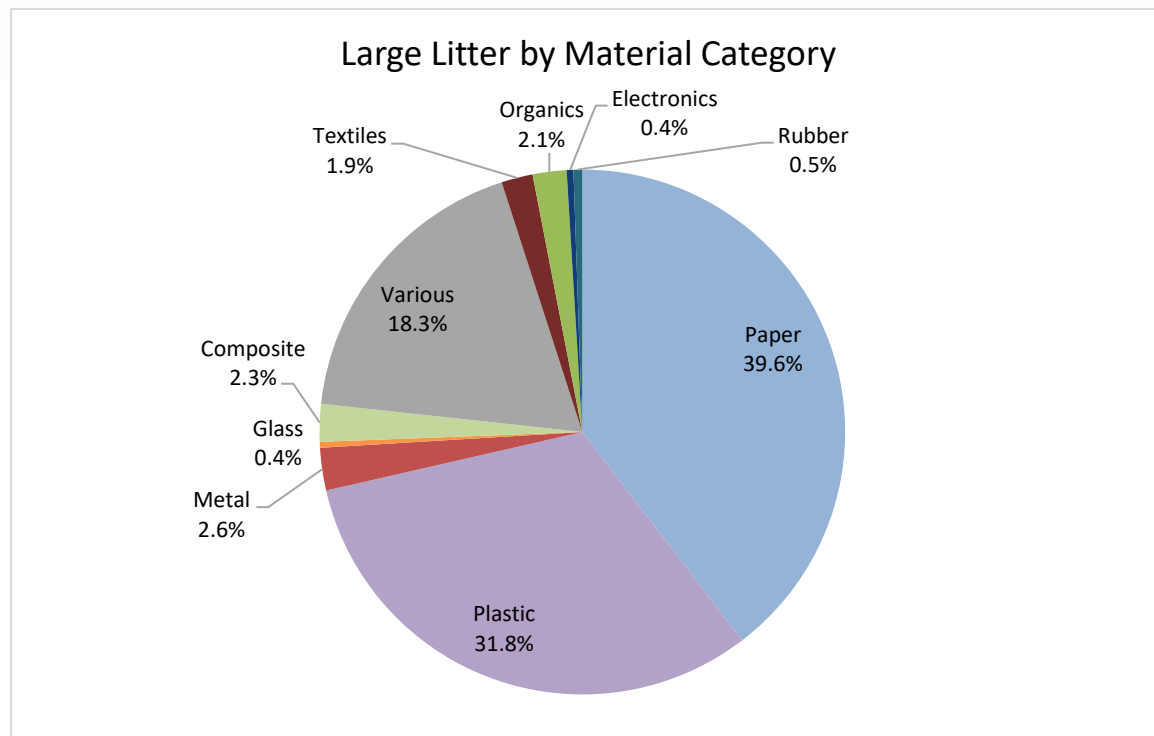


Figure 3.4 Large Litter by Material Category

Table 3.3 below illustrates the composition of large litter by material category since 2012. The overall amount of paper has decreased in 2022. It should be noted that electronics were not identified as a category for the audits prior to 2020 and rubber was classified as various prior to 2022. In addition, organics was not identified as a category in 2012.

Table 3.3 Large Litter by Material Category from 2012 to 2022

Material Type	2022	2020	2016	2014	2012
Paper	39.6%	33.5%	42.8%	43.3%	43.2%
Plastic	31.8%	30.9%	29.3%	30.4%	35.3%
Metal	2.6%	2.5%	2.1%	2.0%	2.5%
Glass	0.4%	0.9%	1.0%	0.4%	0.5%
Composite	2.3%	1.8%	1.1%	2.1%	3.0%
Various	18.3%	23.9%	20.2%	16.4%	14.4%
Textiles	1.9%	2.5%	1.5%	1.7%	1.1%
Organics	2.1%	3.5%	2.1%	3.7%	0.0%
Electronics	0.4%	0.4%	0.0%	0.0%	0.0%
Rubber	0.5%	0.0%	0.0%	0.0%	0.0%
	100.0%	100.0%	100.0%	100.0%	100.0%

3.2.1 Large Litter by Category

Table 3.4 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 2022 include other

miscellaneous, paper/fibre material, and other packaging. Other miscellaneous items include paper and plastic, as well as food, other organics, construction debris and vehicle/road debris and PPE. Trays, other containers and cloth were the least common categories found in 2022. Other beverage packaging was amalgamated with other packaging in 2022. A full list of material categories and their definitions can be found in Appendix C.

Table 3.4 Large Litter by Category 2012, 2014, 2016, 2020 and 2022

Survey Year	2022		2020		2016		2014		2012	
Category	Items	Percent	Items	Percent	Items	Percent	Items	Percent	Items	Percent
Paper/Fibre Material	811	20.9%	622	20.6%	1,125	29.3%	990	29.5%	432	12.6%
Other Miscellaneous	1049	27.0%	837	27.7%	781	20.4%	754	22.5%	1,436	41.8%
Cups	375	9.6%	292	9.7%	417	10.9%	351	10.5%	467	13.6%
Food Wraps/ Containers	171	4.4%	117	3.9%	122	3.2%	273	8.1%	125	3.6%
Beverage	223	5.7%	212	7.0%	212	5.5%	208	6.2%	214	6.2%
Confectionary/ Snack	228	5.9%	147	4.8%	206	5.4%	204	6.1%	224	6.5%
Tobacco	107	2.8%	138	4.6%	219	5.7%	152	4.5%	112	3.2%
Other Packaging	500	12.9%	207	6.8%	354	9.2%	142	4.2%	168	4.9%
Bags	122	3.1%	142	4.7%	167	4.3%	117	3.5%	98	2.9%
Cloth	75	1.9%	76	2.5%	58	1.5%	56	1.7%	39	1.1%
Take-Out Extras	163	4.2%	190	6.3%	91	2.4%	48	1.4%	58	1.7%
Other Beverage Packaging	0	0.0%	15	0.5%	28	0.7%	26	0.8%	19	0.6%
Other Containers	38	1.0%	25	0.8%	42	1.1%	21	0.6%	38	1.1%
Trays	25	0.6%	6	0.2%	17	0.4%	11	0.3%	5	0.1%
Total	3,887	100.0%	3,024	100.0%	3,835	100.0%	3,351	100.0%	3,433	100.0%

Figures 3.5, 3.6, 3.7, 3.8 and 3.9 below provide a comparison of each of the categories in the Large Litter audit in 2022, 2020, 2016, 2014 and 2012, respectively. It should be noted that straws were previously (2012-2016) classified as Cups and have now changed to Take-Out Extras (2020 & 2022). This would explain the decrease in the Cups total and the increase in the Take-out Extras total. In addition, materials classified as Other Beverage Packaging was changed to Other Packaging in 2022.

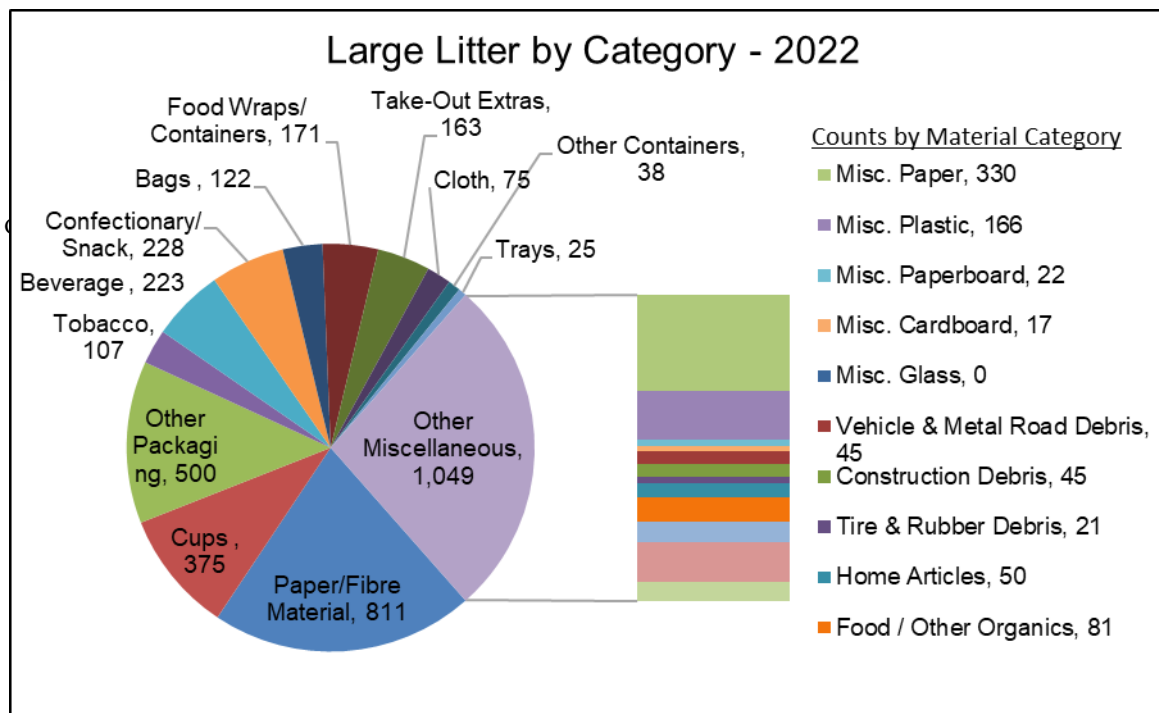


Figure 3.5 Large Litter by Category 2022

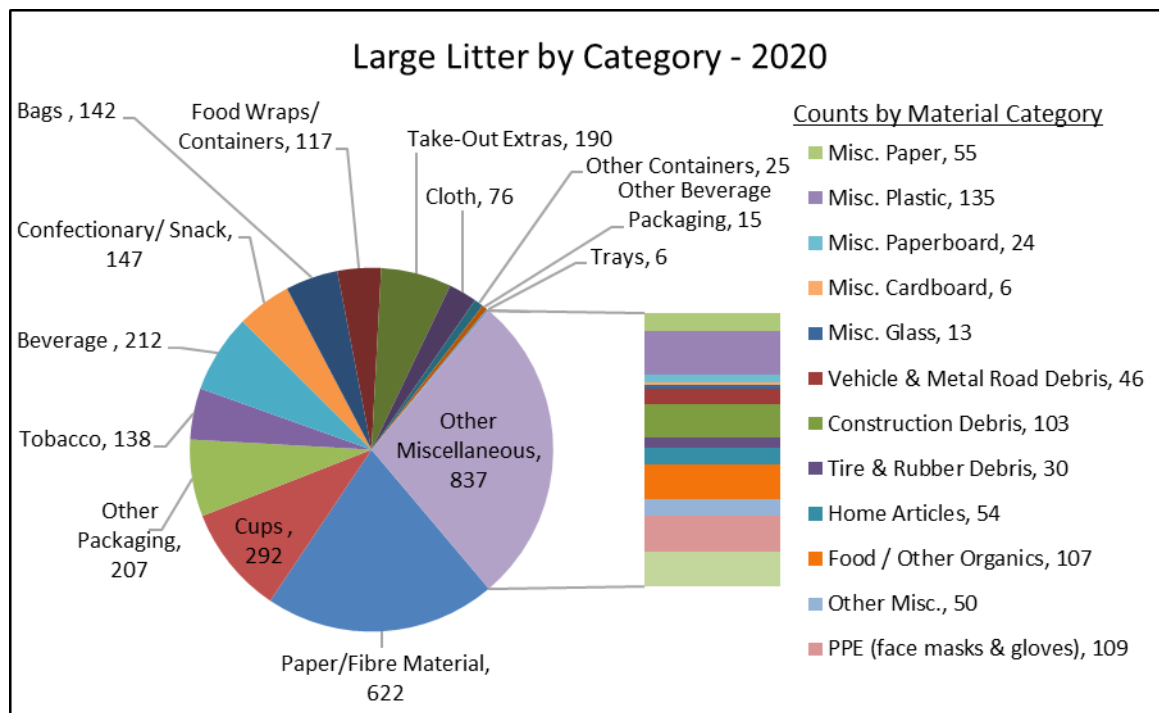


Figure 3.6 Large Litter by Category 2020

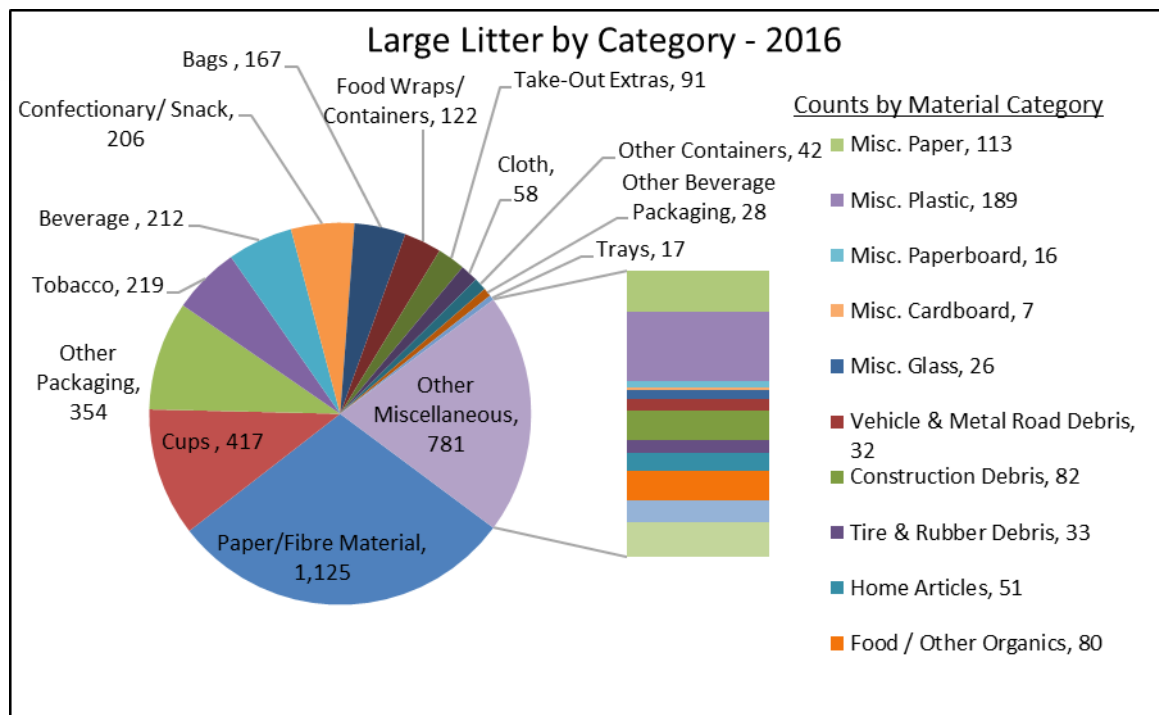


Figure 3.7 Large Litter by Category 2016

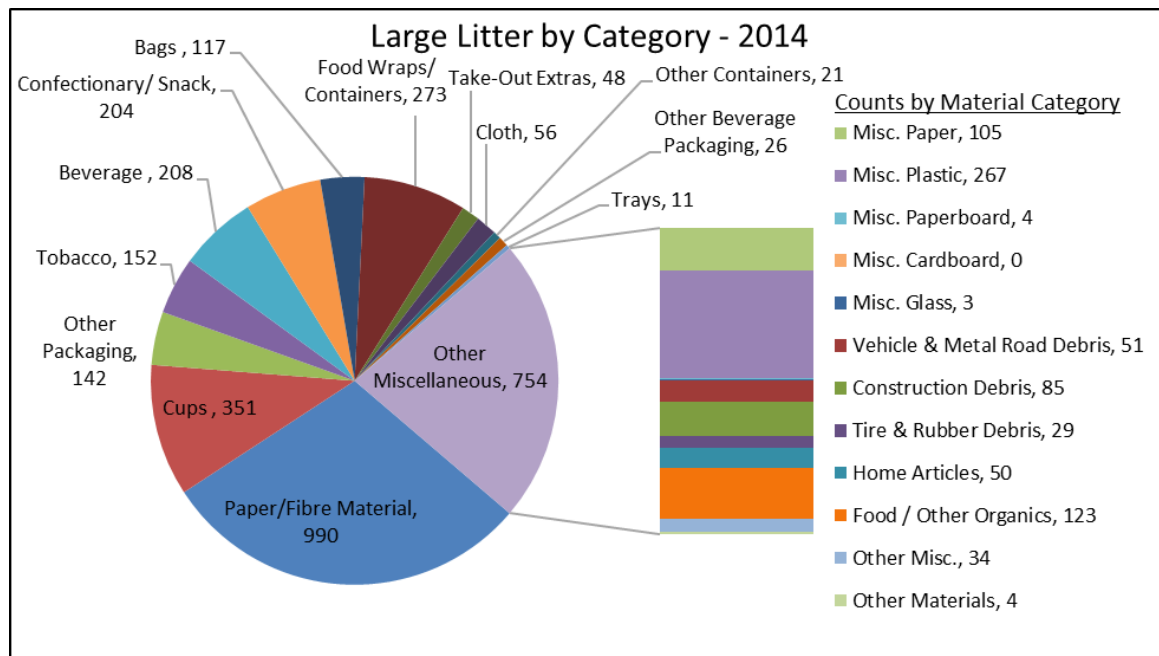


Figure 3.8 Large Litter by Category 2014

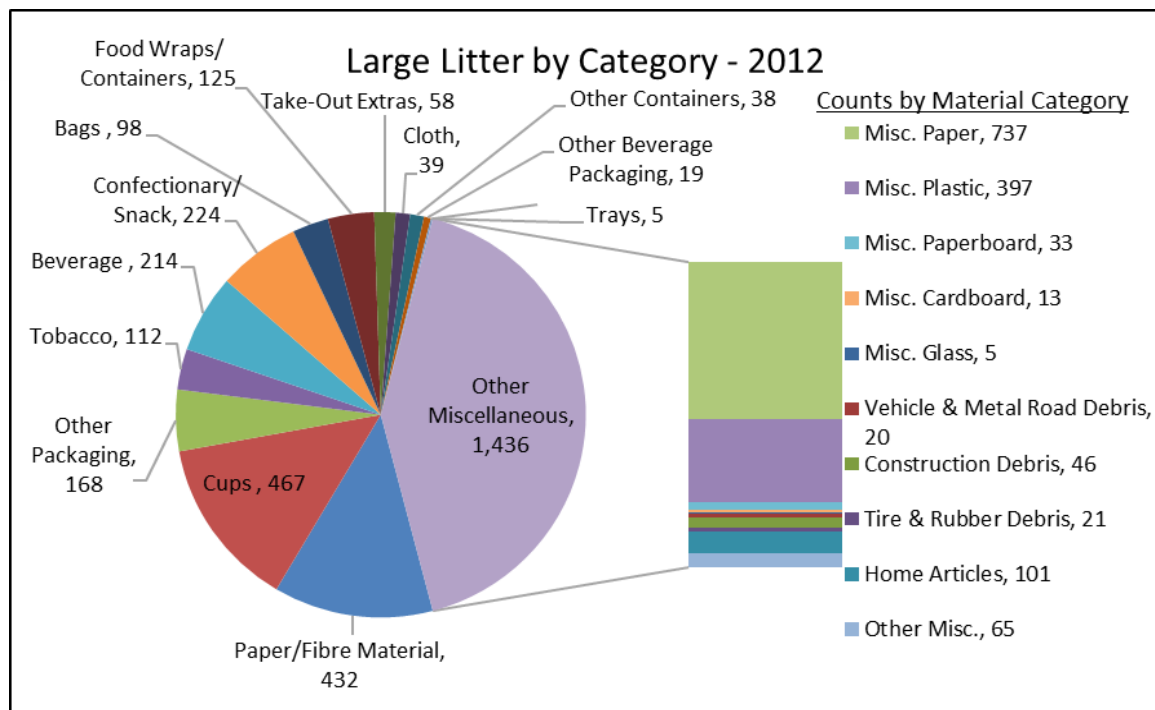


Figure 3.9 Large Litter by Category 2012

3.2.1 Large Litter by Sites

Tables 3.5, 3.6, 3.7, 3.8 and 3.9 below illustrate the 10 sites with the highest item counts for Large Litter in 2022, 2020, 2016, 2014 and 2012, respectively. In 2022, St. Clair Ave. W (Site #20) had the largest amount of large litter identified, amounting to 130 pieces. Common sites in the top 10 for large litter during 2022 and 2020 include sites located on St. Clair Ave. W (Site #20) and Bond St. (Site #300).

Table 3.5 Highest Ranking Sites for Large Litter 2022

Site ID	Site #	Lg Litter	Street Name
25	20	130	St. Clair Ave. W
111	106	67	Finch Ave. W
409	255	65	Castlefield Ave
500	273	64	Lloyd Manor
122	117	55	Walpole Ave.
602	300	54	Bond St.
4	4	47	Iron St.
119	114	47	Butterick Rd.
100	95	44	Dalemound Ave.
32	27	43	Caledonia Rd.

Table 3.6 Highest Ranking Sites for Large Litter 2020

Site ID	Site #	Lg Litter	Street Name
153	147	85	Kennedy Rd.
25	20	84	St. Clair Ave. W
602	300	57	Bond St.
515	288	53	Sheppard W
311	226	49.5	Euclid Ave.
108	103	46.5	Murray Rd.
23	18	43	Canmotor Ave
141	135	43	Littles Rd.
178	172	42	Kingston Rd
73	68	41	Newtonbrook Blvd.

Table 3.7 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 3.8 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 3.9 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.*

3.2.1 Large Litter Site Analysis

The large litter site analysis was informed by results of this large litter audit. The number of sites with no large litter dropped 50%, when comparing 2020 (28) and 2022 (14). The number of sites that rank above, on, and below the average number of items audited per site are very similar in 2012, 2014, 2016, 2020 and 2022 as seen in Figure 3.10. A total of 190 (63.3%) sites fell below the average; 6 (2.0%) sites had an average of 13 pieces per site and 104 (34.7%) sites were above the average.

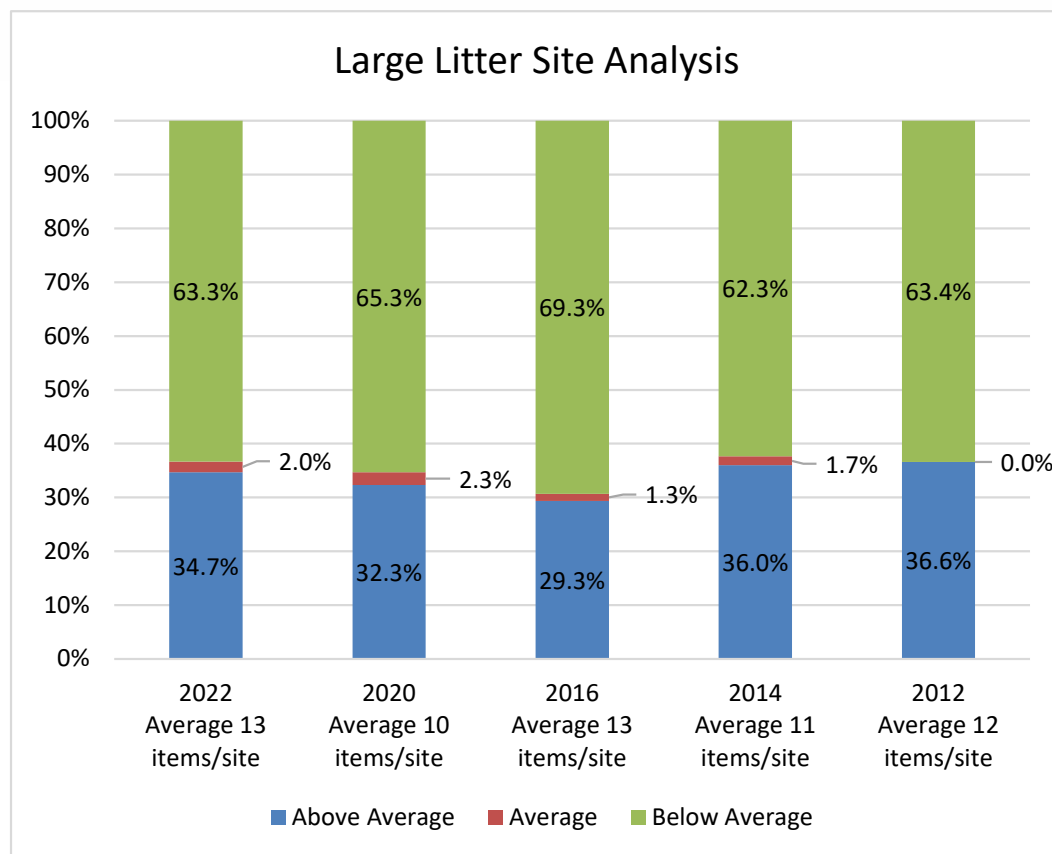


Figure 3.10 Large Litter Site Analysis 2022, 2020, 2016, 2014, 2012

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 2022, the brand names of 877 individual items were recorded in the large litter audit. In total, 308 different brands of litter were identified.

Table 3.10 illustrates the brands that were identified most frequently in 2022. In addition, the total number of items identified in 2020 is shown in Table 3.10. The most prevalent brand was Tim Horton's, with 179 items (20.4% of all of the branded litter found). The brand with the second largest contribution was McDonald's with 44 items recorded, representing 5.0% of the branded litter found. Nestle was the third most common brand name found with 29 items identified, representing 3.3% of the materials recorded. Other top brand names identified include Coca Cola, Starbucks, Kirkland, Real Canadian Water, Red Bull, Heinz and Kit Kat. 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 3.10 Brand Name Large Litter Results 2022

#	Brand Name	2022		2020	
		Total	Percent (%)	Total	Percent (%)
1	Tim Hortons	179	20.4%	163	20.4%
2	McDonald's	44	5.0%	46	5.8%
3	Nestle	29	3.3%	25	3.1%
4	Coca Cola	20	2.3%	20	2.5%
5	Starbucks	20	2.3%	19	2.4%
6	Kirkland	15	1.7%	4	0.5%
7	Real Canadian Water	14	1.6%	10	1.3%
8	Red Bull	14	1.6%	7	0.9%
9	Heinz	11	1.3%	1	0.1%
10	Kit Kat	11	1.3%	2	0.3%

3.4 Small Litter Results

There was a total of 3,110 pieces of Small Litter (< 4 square inches) counted by AET staff in the 2022 Small Litter audits for the city. This represents a decrease in Small Litter of 18% compared to 2020.

Table 3.11 illustrates the differences in the small litter from 2020 to 2022. The results from the 2012, 2014 and 2016 audit for small litter are also included in the table. As seen in the table, some items increased from 2020 to 2022 and other items decreased. The items that experienced the largest increase are polystyrene packing materials (increase of 500%), plastic film (increase of 71.6%), e-waste (increase of 50%) and cigarette butts/debris (increase of 34.2%). The two top small litter contributors have experienced an increase from 2020 to 2022. Both cigarette butts (increase of 34.2%) and paper (increase of 25.5%) have increased from the 2020 audit.

Table 3.11 Small Litter Results 2022, 2020, 2016, 2014 & 2012

Small Litter: 2022, 2020, 2016, 2014 & 2012											
Small Litter Items	2022		2020		2016		2014		2012		Change (2020-2022)
	Count	Percent	Count	Percent	Count	Percent	Count	Percent	Count	Percent	
Chewing gum (stuck on pavement)	406	13.1%	854	22.5%	893	25.4%	990	32.6%	590	28.9%	(52.5%)
Cigarette butts/debris	922	29.6%	687	18.1%	783	22.3%	793	26.1%	637	31.3%	34.2%
Glass	134	4.3%	488	12.9%	246	7.0%	144	4.7%	42	2.1%	(72.5%)
Paper	571	18.4%	455	12.0%	734	20.9%	514	16.9%	336	16.5%	25.5%
Other material	135	4.3%	407	10.7%	171	4.9%	84	2.8%	15	0.7%	(66.8%)
Hard plastic	280	9.0%	270	7.1%	227	6.5%	145	4.8%	100	4.9%	3.7%
Plastic film	266	8.6%	155	4.1%	106	3.0%	80	2.6%	93	4.6%	71.6%
Candy packaging and wrappers	125	4.0%	117	3.1%	86	2.5%	84	2.8%	92	4.5%	6.8%
Aluminum/foil debris	62	2.0%	106	2.8%	73	2.1%	64	2.1%	23	1.1%	(41.5%)
Other polystyrene debris, ie. Poly foam pieces	74	2.4%	103	2.7%	22	0.6%	11	0.4%	42	2.1%	(28.2%)
Metal (not aluminum)	49	1.6%	51	1.3%	55	1.6%	46	1.5%	17	0.8%	(3.9%)
Food & Other Organics	26	0.8%	31	0.8%	45	1.3%	34	1.1%	0	0.0%	(16.1%)
Bottle caps	16	0.5%	27	0.7%	17	0.5%	8	0.3%	18	0.9%	(40.7%)
Rubber (scrap rubber debris, rubber bands, etc.)	16	0.5%	13	0.3%	2	0.1%	11	0.4%	3	0.1%	23.1%
Other tobacco	2	0.1%	11	0.3%	22	0.6%	9	0.3%	15	0.7%	(81.8%)
Plastic Eating Utensils											
Forks	2	0.1%	2	0.1%	0	0.0%	0	0.0%	0	0.0%	0.0%
Knives	1	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	N/A
Spoons	1	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	N/A
Chop Sticks	1	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	N/A
Straws	6	0.2%	6	0.2%	4	0.1%	10	0.3%	6	0.3%	0.0%
Other	1	0.0%	6	0.2%	0	0.0%	0	0.0%	0	0.0%	(83.3%)
E-waste (cables, usb keys, earbuds, etc)	6	0.2%	4	0.1%	0	0.0%	0	0.0%	0	0.0%	50.0%
Polystyrene packing materials, ie. Foam peanuts	6	0.2%	1	0.0%	23	0.7%	9	0.3%	9	0.4%	500.0%
Face Masks (< 4 square inches)	2	0.1%	0	0.0%	0	0.0%	0	0.0%	0	0.0%	N/A
Total Small Litter	3,110	100%	3,794	100%	3,509	100%	3,036	100%	2,038	100%	-18.0%

3.4.1 Small Litter by Sites

Tables 3.12, 3.13, 3.14, 3.15 and 3.16 illustrate the 10 sites with the highest item counts for Small Litter in 2022, 2020, 2016, 2014 and 2012, respectively. In 2022, Bond St. (Site #300) had the highest amount of small litter with 111 pieces counted. Bond St. (Site #300) also had the highest amount of small litter in 2020, with 162 pieces counted. A total of 4 sites remained in the top ten for small litter from 2020 to 2022. These sites include: Bond St. (Site #300), Kennedy Rd. (Site #147), Dundas St. W. (Site #210) and Grosvenor St. (Site #239). Three out of four of these sites are located in the downtown core of Toronto and have a lot of pedestrian foot traffic.

Table 3.12 Highest Ranking Sites for Small Litter 2022

Site ID	Site #	Sm Litter	Street Name
602	300	111	Bond St.
153	147	69	Kennedy Rd.
259	210	65	Dundas St. W.
40	35	50	Queen St. W.
69	64	48	Wilson Ave.
155	149	43	Eglinton Ave. E
150	144	42	Booth Ave.
305	220	41	Spadina Ave.
132	126	39	Kingston Rd
329	239	33	Grosvenor St.

Table 3.13 Highest Ranking Sites for Small Litter 2020

Site ID	Site #	Sm Litter	Street Name
602	300	162	Bond St.
259	210	150	Dundas St. W.
153	147	139	Kennedy Rd.
310	225	110	Eden PL
300	215	79	Bloor St. W
329	239	68	Grosvenor St.
56	51	67	Napanee Ct.
179	173	64	Eglinton Ave. E
260	211	64	Spadina Ave.
159	153	62	Princemere Cr

Table 3.14 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 3.15 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 3.16 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.

3.4.1 Small Litter Site Analysis

The small litter site analysis was completed with reference to the small litter audit results (Figure 3.11). The number of sites with no small litter decreased from 32 in 2020 to 11 in 2022. The numbers of sites that rank above on and below the average number of items audited per site were very similar in 2012, 2014, 2016 and 2020. There was an increase in the number of sites ranking "above average" in 2022. The average number of small litter items per site was 7 in 2012, 10 in 2014, 12 in 2016, 13 in 2020 and 10 in 2022.

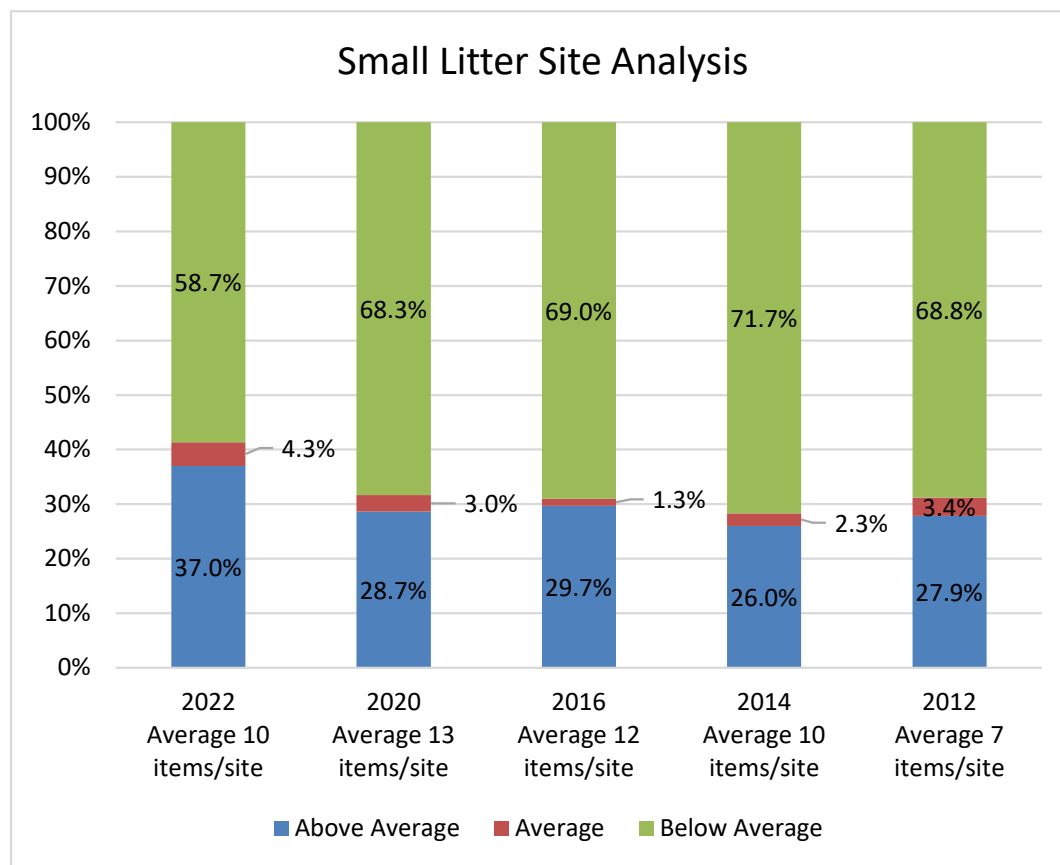


Figure 3.11 Small Litter Site Analysis 2022, 2020, 2016, 2014, 2012

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 16 categories. The weights and overall composition of the recyclables collected are displayed in Table 4.1. In addition, composition of recyclable large litter collected and audited during the 2020 audit are included in Table 4.1. A complete list of the sort results can be found in Appendix I.

Table 4.1 Recyclable Litter Weights

Material Category	Material Type	2022		2020	
		Weight (kg)	Percent (%)	Weight (kg)	Percent (%)
PET Beverage Bottles	Plastic	2.57	27.9%	1.73	11.1%
Corrugated - Pizza Boxes etc.	Paper	1.25	13.6%	6.87	44.0%
Boxboard/Cores	Paper	1.00	10.9%	1.15	7.4%
Aluminum Food and Beverage Cans	Metal	0.84	9.1%	0.80	5.1%
Other Plastic Containers	Plastic	0.83	9.0%	1.12	7.2%
Clear and Coloured Glass Other Beverage and Food	Glass	0.74	8.0%	1.45	9.3%
Coloured Glass Alcohol Beverage	Glass	0.70	7.6%	0.04	0.3%
Other Paper (includes aseptic containers, molded pulp)	Paper	0.57	6.2%	1.46	9.3%
E-Waste (car charger, insulated wire, plug, phone charger cable, e-cigarette)	Electronics	0.28	3.0%	0.00	0.0%
Laminated/Other Plastic Film and Bags	Plastic	0.18	2.0%	0.25	1.6%
Steel Food and Beverage Cans	Metal	0.10	1.1%	0.07	0.4%
Single-use plastic cutlery (straws excluded)	Plastic	0.08	0.9%	0.15	1.0%
Newspaper - Daily and Weeklys - Other	Paper	0.06	0.7%	0.21	1.3%
Magazines and Catalogues	Paper	0.00	0.0%	0.08	0.5%
Other Metal	Metal	0.00	0.0%	0.04	0.3%
Clear Glass Alcohol Beverage	Glass	0.00	0.0%	0.21	1.3%
Total		9.20	100.0%	15.63	100.0%
Average Weight of Recyclable Large Litter per Site		0.03		0.05	

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, 5.2 and 5.3 are examples of litter bins that were present within or near some of the 300 audited sites. Figure 5.1 shows the City's older style 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 are commonly found in Toronto Parks. Figure 5.3 illustrates a newer style street litter bin. The older style bins often had broken or missing foot pedals. Of the 300 sites that were audited, 76 sites (25.3%) had litter bins present within a 200-meter radius, while 224 sites (74.7%) did not. When looking at cigarette butt litter specifically, sites with a litter bin present had an average of 5.5 cigarette butts per site and sites without a litter bin present had an average of 2.2 cigarette butts per site. Evidence of litter cleanup was seen at 7 of the 300 sites. This was in the form of mobile City street cleaner vacuum machines, street sweeper trucks, City workers manually picking up litter and residents picking up litter in their neighborhoods.

Compostable or bio-degradable materials were found in the form of Food/ Other Organics, Name Brand FF Towels/ Napkins, and Popsicle Sticks. Based on notes made during the audit, no compostable materials were found outside of the categories, however it is possible that other compostable or bio-degradable materials such as soiled paper, compostable clamshells, compostable trays, and paper straws may have been counted under the Paper Fast Food Plates, Paper Trays, Misc. Paper, Paperboard, and Other Material categories.



Figure 5.1 Street Litter Bin



Figure 5.2 Park Litter Bins



Figure 5.3 Street Litter Bin

The areas with City litter bins nearby had on average 18 pieces of large litter within the site, and the areas without a nearby City litter bin had an average of 11 pieces of large litter. Litter bins were generally observed in areas with greater public foot traffic. This could account for some of 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 at a given site and assist the City in locating certain sites of concern. All details for each site are provided in Appendix A. Figures 5.4 and 5.5 illustrate examples of large and small litter and their common catchpoints.



Figure 5.4 Accumulated Large Litter along curb at sewer drain



Figure 5.5 Accumulated Large Litter around fence line

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 All Litter (Combined Large and Small Litter)

Site ID	Site #	Large Litter	Small Litter	All Litter	Street Name
602	300	54	111	165	Bond St.
25	20	130	15	145	St. Clair Ave. W
153	147	33	69	102	Kennedy Rd.
409	255	65	25	90	Castlefield Ave
111	106	67	14	81	Finch Ave. W
122	117	55	21	76	Walpole Ave.
32	27	43	30	73	Caledonia Rd.
259	210	6	65	71	Dundas St. W.
500	273	64	7	71	Lloyd Manor
69	64	21	48	69	Wilson Ave.

Attributes of the sites with the highest amount of combined litter (small and large litter) are provided in Table 6.2.

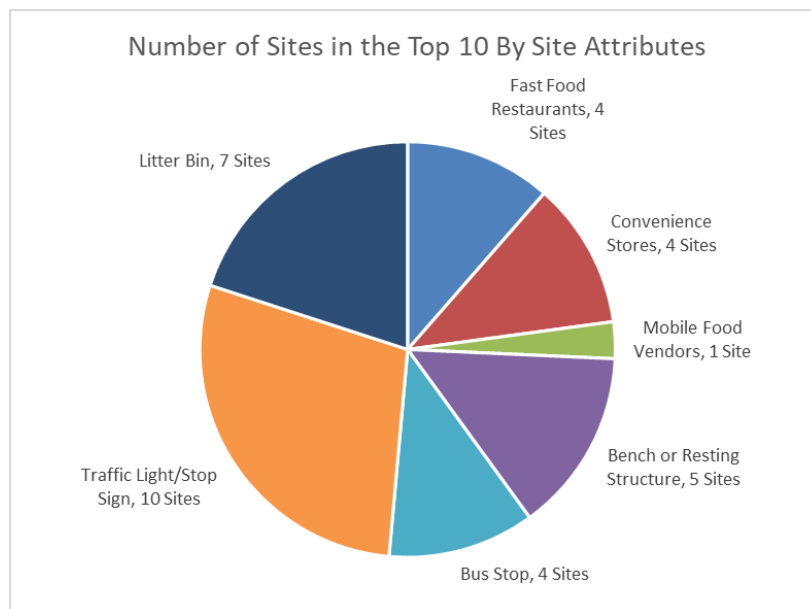


Figure 6.1 Top 10 Litter Sites Grouped by Site Attributes

As detailed in Figure 6.1, Fast food restaurants, convenience stores and bus stops were present for 40% of the top ten sites, mobile food vendors were present for 10% of the top ten sites, bench or resting structures were present for 50% of the top ten sites, street litter bins were present for 70% of the top ten sites, and traffic lights or stop signs were present for 100% of the top ten sites. Major streets accounted for 70% of the top ten sites, and minor streets accounted for 30% of the top ten sites.

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

Site ID	Site #	Large Litter	Small Litter	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	54	111	165	Bond St.	Y	N	N	N	N	Y	Y	Minor	Com
25	20	130	15	145	St. Clair Ave. W	Y	Y	N	Y	Y	Y	Y	Major	Com
153	147	33	69	102	Kennedy Rd.	Y	Y	N	Y	Y	Y	Y	Major	Com-Res
409	255	65	25	90	Castlefield Ave	N	N	N	Y	N	Y	Y	Major	Com-Park
111	106	67	14	81	Finch Ave. W	N	N	N	N	N	Y	N	Major	Res
122	117	55	21	76	Walpole Ave.	N	N	N	N	N	Y	N	Minor	Res
32	27	43	30	73	Caledonia Rd.	N	N	N	N	N	Y	N	Minor	Com-Res
259	210	6	65	71	Dundas St. W.	Y	Y	Y	Y	Y	Y	Y	Major	Com
500	273	64	7	71	Lloyd Manor	N	Y	N	N	N	Y	Y	Major	Res
69	64	21	48	69	Wilson Ave.	N	N	N	Y	Y	Y	Y	Major	Res

2022 Top 10 Littered Sites

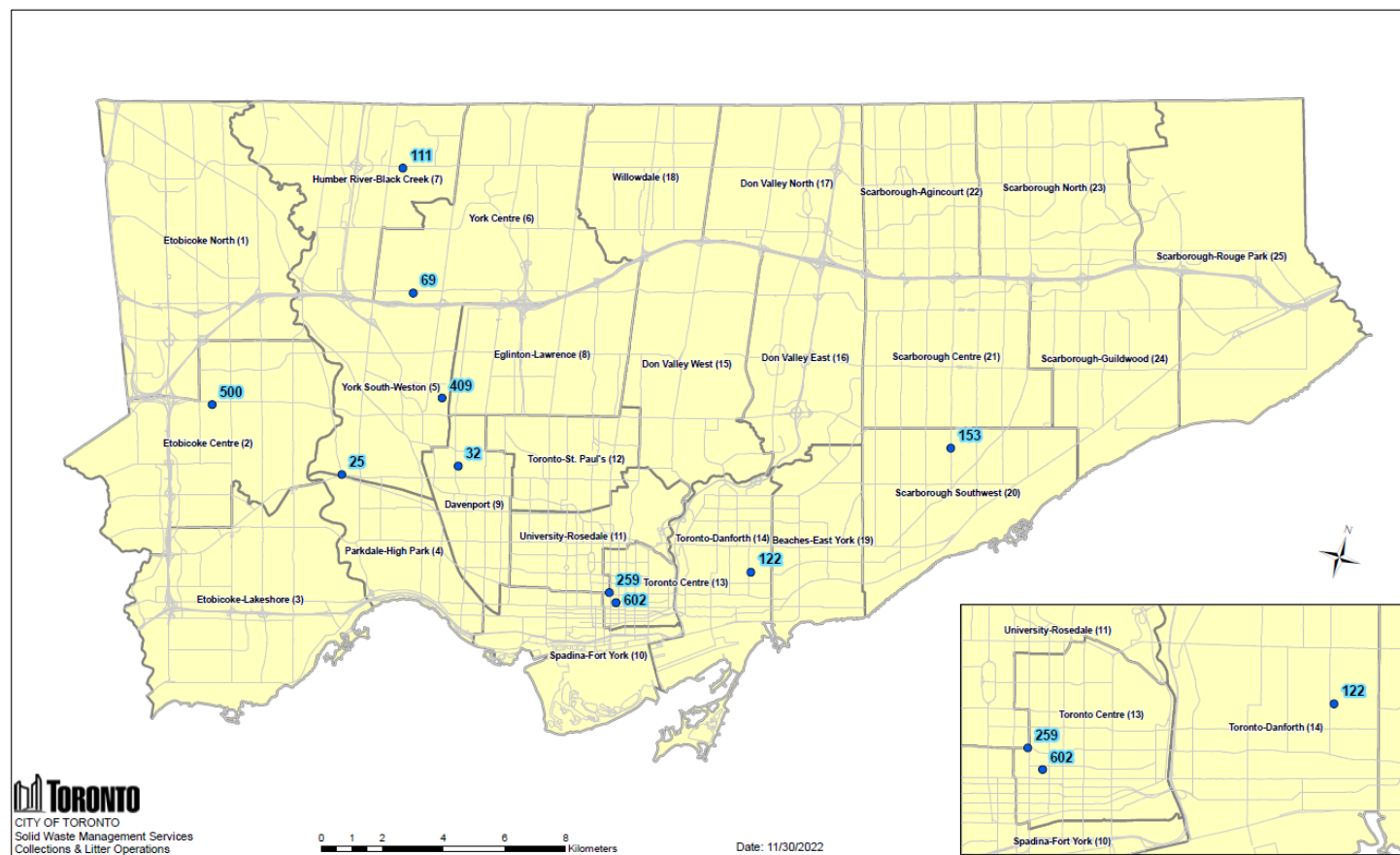


Figure 6.2 Map of Top 10 Littered Sites

7.0 LITTER ABATEMENT

The amount of large litter has increased from an average of 10 items per site in 2020 to 13 items per site in 2022. In examining this amount of litter observed on city streets, AET staff consulted with City Solid Waste Management Planning staff and were provided the following information on City litter operations.

Although this study presents an overall reduction in small litter, the findings showed an increase in large litter in 2022. As mentioned in the 2020 litter audit report, the COVID-19 pandemic brought some unique and uncharacteristic conditions. As of 2018, the City of Toronto had a population of 2.90 million people. COVID-19 temporarily shifted small segments of the population to lower cost municipalities due to the advent of remote working. Furthermore, hybrid working arrangements have seen an increase in many workplaces. The amount of pedestrian traffic in the City may have increased in 2022 with COVID-19 restrictions being lifted and people heading back to working on site, however it is likely lower than pre-pandemic levels.

With the lifting of COVID-19 related restrictions, the City has regained its position as the epicenter for tourism, culture, commerce, and entertainment bringing an influx of increased littering by a population of Toronto & GTA residents as well as tourists clamouring to enjoy the City's amenities. Furthermore, the addition of the Eglinton Crosstown LRT (completion date TBD) and other strategic investments in transit infrastructure by all three levels of government (e.g., Finch Avenue West LRT, Downtown Relief Line, Yonge Street Subway Extension, and the Eglinton Crosstown West extension to Pearson International Airport.), will allow for more travel options throughout the City and a steady increase in its pedestrian population. The transit infrastructure intensification is giving way to more commercial and residential high-rise condominium construction and purpose-built rental buildings which will house this new wave of immigration and relocation to the second largest financial centre in North America and seventh largest globally for employment.

Each day, the earliest litter collection assignments are mechanical street sweepers and sidewalk vacuum operations. There are 30 in-house mechanical litter collection routes cleaned daily and 29 mechanical routes cleaned in the downtown core via contractor. Assigned routes in the downtown core include sidewalks, major and minor city streets, alleyways, and laneways. Within the past two years the use of mechanized sidewalk cleaning equipment has increased, and the technology of the equipment is improving.

There are 60 manual cleaning routes, 60 mechanical litter collection routes and 177 km of mechanical bike lane sweeping routes across the City and growing. Litter Operations is comprised of four functions, manual litter collection, mechanical litter collection, mechanical bike lane and laneway sweeping, and fly squads. Manual litter collection is carried out by staff using a bag and broom. These staff members are assigned to routes that are high density, with lots of pedestrian foot traffic primarily in the downtown core. Mechanical litter collection is carried out via mechanical "litter vacuum" on city owned sidewalks and laneways in the downtown core and the outer areas. Mechanical bike lane and laneway sweeping is conducted via mechanical sweepers that utilize reinforced metal brushes to scrape debris from concrete and asphalt whilst using water to reduce dust and remove grime, and a vacuum head that collects litter. Fly squads are single operator or in some cases teams of two persons utilizing a specialized pick-up truck equipped with a hydraulic lift gate or dump box. Fly squads are dispatched to address litter, illegal dumping, real time service complaint resolution and laneway cleaning and maintenance. Daily operations prioritize the heaviest littered areas in the downtown core first to clean prior to the peak rush hour periods of 9:00 a.m. and between 12:00 p.m. and 2:00 p.m.

Prioritization of resources by using 311 Service Complaint data, in addition to regular operational audits of service frequency and scheduling, has assisted greatly in targeting areas requiring cleaning. With effective collection comes less littered streets – supporting positive behavior to litter less. People are less likely to litter when the streets are clean. Another note for this audit is that the number and location of litter bins has increased on city streets. Since 2011, the number of litter bins has doubled from 5,630 in 2011 to over 11,000 in 2022. Litter bins have been placed strategically along city sidewalks and TTC stops. The “opportunity to dispose of trash properly” may 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 is formed and comprised of staff from Solid Waste Management Services, Transportation Services, Municipal Licensing and Standards and Economic Development and Culture. 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 smoking Bylaw signage. 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. In addition, Solid Waste Management Services is a part of the Downtown East (DTE) Action Plan; this is an inter-divisional partnership focused on Ward 13. We work with Toronto Public Housing, Municipal Licensing and Standards, Parks, Forestry and Recreation, Transportation, Shelter, Support and Housing Administration, and the local Counsellor's Office to reduce littering in the public realm. This includes removal of sharps and other discarded materials associated with at-risk behaviours. The Division also supports several special events each year throughout the City including Pride Toronto, Caribana and Nuit Blanche. Solid Waste Management Services continues to raise public awareness about littering issues through its website, including tips, litter audit data, and ad campaigns.

During the global pandemic, Litter Operations saw an increase in requested assistance with the safe removal of homeless encampment clean-ups as they worked alongside other divisions such as Transportation Services, Parks, Forestry and Recreation, Municipal Licensing and Standards, and Streets 2 Homes. As of November 2022, there have been over 300 hours committed to assisting in the encampment removal city-wide.

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 October 3rd through October 13th, 2022 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 to or larger than four square inches, and small litter, which is smaller than four square inches.

8.1 Large Litter Conclusions

Over the two-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 10 items per site in 2020 to 13 items per site in 2022.
- The average amount of large litter has decreased by 48.2% since the first audit in 2002 (an average of 25 large litter items per site in 2002 compared to 13 in 2022);

- The number of sites with no large litter recorded decreased from 28 sites in 2020 to 14 sites in 2022; and,
- The most commonly found item in the large litter audit was non-branded towels/ napkins, representing 10.5% of all large items audited. Other common littered items include miscellaneous paper, at 8.5%, plastic packaging other, at 8.1%, and cup lids and pieces, at 5.5%, 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 20.4% of all the branded litter that was recorded;
- Other common brands found include McDonald's at 5.0%, Nestle at 3.3%, Coca Cola at 2.3% and Starbucks at 2.3%; and,
- 308 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 decreased from an average of 13 items per site in 2020 to 10 items per site in 2022; and,
- The most commonly found small litter item was cigarette butts/debris, accounting for 29.6% of all small litter audited, followed by paper at 18.4%. Cigarette butts/debris has fallen in the top two small litter contributors in the 2022, 2020, 2016, 2014 and 2012 litter surveys.

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:

- PET Beverage Bottles was the largest material found, by weight, representing 27.9% of the total recyclable litter audited; and,
- Corrugated cardboard (13.6%), Boxboard/Cores (10.9%), and Aluminum Food and Beverage Cans (9.1%) also made notable contributions to the types of litter.

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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 or Variable	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	12-Oct-22	11:19 AM	11:24 AM	B	Fixed	18	18	18	Markbrook Lane	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	8	5	Curb-Grass Line	1	N		Lane	N:43.758572 W:79.58778		
2	2	1	12-Oct-22	11:47 AM	11:53 AM	B	Fixed	18	18	18	Glenhollow Ave.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	30	2	Curb-Grass Line	2	N		Ave	N:43.7305 W:79.60489		
3	3	1	12-Oct-22	12:18 PM	12:20 PM	B	Fixed	18	18	18	Amoro Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	2	1	Curb-Grass Line	1	N		Drive	N:43.723555 W:79.57717		
4	4	2	12-Oct-22	12:45 PM	12:53 PM	B	Fixed	18	18	18	Iron St.	Minor	2	N	Ind	<3	N	N	N	N	N	Y	N	47	8	Curb-Grass Line	4	N		Street	N: 43.70233 W:79.58192		
5	5	2	6-Oct-22	1:21 PM	1:25 PM	B	Variable	9	9	9	Lockheed Blvd	Minor	2	N	Res	3 to 6	N	N	N	N	N	N	N	4	1	Curb-Grass Line	1	N		Blvd	N:43.699138 W:79.529015		
6	6	2	6-Oct-22	1:04 PM	1:16 PM	B	Variable	12	18	18	Westona St.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	41	12	Fence-Hedge-Curb-Grass Line	4	N		Street	N:43.696943 W:79.527758		
7	7	2	6-Oct-22	12:53 PM	12:59 PM	B	Variable	5	5	5	Kingdom St.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	6	2	Curb-Grass Line	1	N		Street	N:43.695104 W:79.518302		
8	8	4	5-Oct-22	2:26 PM	2:35 PM	B	Fixed	18	18	18	Martin Grove Rd.	Major	4	N	Res	<3	N	N	N	Y	Y	Y	Y	31	8	Curb-Grass Line	4	N		Road	N:43.687444 W:79.56979		
9	11	4	5-Oct-22	12:01 PM	12:10 PM	B	Variable	10	10	8	Aylesbury Rd.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	1	1	Grass Line	1	N		Road	N:43.66632 W:79.53811		
10	12	3	5-Oct-22	1:21 AM	1:30 AM	B	Fixed	18	18	18	Rathburn Rd.	Major	4	Y	Res	<3	N	N	N	N	Y	Y	Y	14	4	Curb- mini plaza entrance	2	N	Grey Litter Bin - divided	Road	N: 43.65268 W:79.57359		
11	13	4	5-Oct-22	12:14 PM	12:25 PM	B	Variable	9	9	9	Finchley Rd.	Minor	2	N	Res	<3	N	N	N	N	N	N	N	2	0	Grass Line	1	N		Road	N:43.65917 W: 79.52646		resident stated that the whole neighbourhood clean the area
12	14	4	5-Oct-22	1:07 PM	1:13 PM	B	Variable	7	7	7	Burnhamthorpe Pk Blvd	Minor	2	N	Res	<3	N	N	N	N	N	N	N	1	1	Grass Line	1	N		Blvd	N: 43.65216 W:79.53876		
13	16	5	4-Oct-22	1:34 PM	1:40 PM	B	Fixed	18	18	18	Fieldway Rd.	Minor	2	N	Com-Ind	3 to 6	N	N	N	N	N	Y	N	4	16	Curb-Grass Line	1	N		Road	N: 4364039 W: 79.52981		
14	17	5	4-Oct-22	1:15 PM	1:22 PM	B	Variable	5	5	3	Elderidge Ave.	Minor	2	N	Res	<3	N	N	N	N	N	N	N	6	2	Hedge-Curb-Grass Line	1	N		Ave	N: 43.63636 W:79.50249		
15	18	5	4-Oct-22	12:47 PM	12:55 PM	B	Fixed	18	18	18	Rosewood Ave.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	5	3	Fence(front yard house)-Curb-Grass Line	1	N		Ave	N: 43.62567 W: 79.50966		
16	20	6	4-Oct-22	11:25 AM	11:33 AM	B	Variable	11.5	12	14	Valermo Dr.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	22	1	Fence-Hedge-Curb-Grass Line	3	N		Drive	N:43.606189 W:79.5455		
17	21	6	4-Oct-22	11:12 AM	11:18 AM	B	Fixed	18	18	18	Browns Line	Major	4	N	Com	<3	N	N	N	N	Y	Y	N	14	10	Curb-Grass Line	2	N		Line	N:43.595244 W:79.542174		
18	23	5	4-Oct-22	12:31 PM	12:43 PM	B	Fixed	18	18	18	Canmotor Ave	Minor	2	N	Ind	3 to 6	N	N	N	N	N	Y	N	35	6	Curb-Grass Line	3	N		Ave	N:43.622274 W:79.510662		
19	24	11	6-Oct-22	1:32 PM	1:42 PM	B	Fixed	18	18	18	Oak St.	Major	2	Y	Com	3 to 6	N	N	N	Y	Y	Y	Y	12	15	Curb-Grass Line	1	N	Grey (2-slot divider)	Street	N:43.70900 W:79.52770		bush next to curb was holding most of the small litter
20	25	13	5-Oct-22	10:29 AM	10:57 AM	B	Fixed	18	18	18	St. Clair Ave. W	Major	4	Y	Com	3 to 6	Y	Y	N	Y	Y	Y	Y	130	15	Curb--Stone wall	4	N	Grey Toronto Bin	Ave	N:43.66623 W:79.49905		6ft concrete wall
21	26	13	5-Oct-22	8:42 AM	8:49 AM	B	Variable	6	6	6	Maria St.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	10	2	Fence-Hedge-Curb	1	N		Street	N: 43.66628 W:79.47476		
22	27	13	5-Oct-22	9:44 AM	9:53 AM	B	Variable	6.5	6.5	6.5	Methuen Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	N	N	8	7	Curb-Grass Line	1	N		Ave	N:43.655704 W:79.489239		
23	28	13	5-Oct-22	8:58 AM	9:11 AM	B	Variable	10.5	8	8	Runnymede Rd.	Major	4	Y	Res	N/A	N	N	N	N	Y	Y	Y	29	7	Hedge-Curb	2	N	Grey 3-slot divider	Road	N: 43.66041 W:79.48014		All the large litter hidden under the plant along the curb
24	29	13	4-Oct-22	5:38 PM	5:47 PM	C	Fixed	18	18	18	Spring Rd.	Minor	2	N	Park	<3	N	N	N	Y	N	Y	Y	0	16	Curb-Grass Line	1	N	Garbage bins	Road	N:43.64356 W:79.45821		
25	30	17	6-Oct-22	9:44 AM	9:50 AM	B	Variable	6	6	7	Nairn Ave.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	14	2	Hedge-Curb-Grass Line	2	N		Ave	N:43.685551 W:79.452248		
26	31	17	6-Oct-22	2:32 PM	2:40 PM	C	Variable	7	7	7	Osler St.	Minor	2	N	Ind-Res	N/A	N	N	N	N	N	Y	N	2	9	Curb	1	N		Street	N:43.673245 W:79.461405		
27	32	17	6-Oct-22	2:58 PM	3:15 PM	C	Variable	17	17	17	Caledonia Rd.	Minor	2	N	Com-Res	<3	N	N	N	N	N	Y	N	43	30	Curb-Grass Line	3	N		Road	N:43.67876 W:79.454902		
28	33	17	6-Oct-22	1:59 PM	2:07 PM	C	Variable	7.5	7.5	7.5	Uxbridge Ave.	Minor	2	N	Res	N/A	N	Y	N	N	N	Y	N	16	5	Curb	1	N		Ave	N:43.669104 W:79.456949		
29	34	17	6-Oct-22	1:35 PM	1:46 PM	C	Variable	6.5	6.5	6.5	Ashburnham Rd.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	1	16	Curb-Grass Line	1	N		Road	N:43.673132 W:79.443878		
30	35	17	6-Oct-22	1:18 PM	1:28 PM	C	Variable	6	6	6	McFarland Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	13	8	Curb	2	N	New curbside asphalt at section 3 with new sidewalk, no litter	Ave	N:43.67371 W:79.442423		
31	36	14	6-Oct-22	12:06 PM	12:16 PM	C	Variable	8	10	10	Dupont St.	Major	2	N	Com	N/A	N	N	N	N	N	Y	N	9	28	Curb	1	N		Street	N:43.666352 W:79.449495		
32	37	14	6-Oct-22	11:39 AM	11:49 AM	C	Variable	8	8	8	Campbell Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	Y	8	15	Curb	1	Y	Man picking up litter	Ave	N:43.664234 W:79.449789		
33	38	14	4-Oct-22	4:59 PM	5:08 PM	C	Variable	8.5	7.5	8.5	Indian Trail	Minor	2	N	Res	<3	N	N	N	Y	N	Y	Y	3	7	Curb	1	N	3 bins (Garbage, Recycling, Organics)	Trail	N:43.653918 W:79.45751		
34	39	14	4-Oct-22	5:17 PM	5:24 PM	C	Variable	8	8	8	Sunnyside Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	1	5	Curb	1	N		Ave	N:43.648194 W:79.452721		

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed or Variable	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
35	40	14	7-Oct-22	9:38 AM	9:50 AM	C	Variable	13	16	16	Queen St. W.	Major	4	N	Res-Com	N/A	N	N	N	N	Y	Y	Y	4	50	Curb-Tree Line	1	N	1 divided black city bin	Street	N:43.63945 W:79.443317		
36	41	18	4-Oct-22	4:14 PM	4:24 PM	C	Variable	7	7	7	Whytock Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	Y	12	4	Curb	1	N	2 sets of garbage and recycling carts at playground across.	Ave	N:43.653728 W:79.442256		
37	42	18	4-Oct-22	3:45 PM	3:54 PM	C	Variable	7.5	7.5	7.5	Muir Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	9	13	Curb-Grass Line	1	N		Ave	N:43.653795 W:79.434432		
38	43	18	4-Oct-22	3:28 PM	3:37 PM	C	Variable	7.5	7.5	7.5	Macklem Ave.	Lane	1	N	Res	N/A	N	N	N	N	N	Y	N	25	16	Fence-Curb	2	N		Ave	N:43.651596 W:79.431628		
39	44	19	6-Oct-22	11:14 AM	11:19 AM	C	Variable	7.5	7.5	7	Pendrith St.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	2	6	Curb	1	N		Street	N:46.665974 W:79.425863		
40	45	19	4-Oct-22	2:55 PM	3:10 PM	C	Variable	7	7	7	Crawford St.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	29	14	Fence-Hedge-Curb	3	N		Street	N:43.645341 W:79.415732		
41	46	19	4-Oct-22	9:14 AM	9:19 AM	B	Variable	7	7	7	Stafford St.	Major	2	N	Res	3 to 6	N	N	N	N	N	Y	N	2	2	Fence-Hedge-Curb-Grass Line	1	N		Street	N: 4364375 W:79.41132		
42	47	19	4-Oct-22	1:51 PM	1:58 PM	C	Variable	8	8	8	Mansfield Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	20	14	Curb	2	N		Ave	N: 43.65339 W:79.41368		
43	48	19	4-Oct-22	1:22 PM	1:28 PM	C	Variable	8	8	8	Euclid Av.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	7	4	Hedge-Curb	1	N		Ave	N: 43.65735 W:79.41200		
44	49	19	4-Oct-22	3:32 PM	1:40 PM	C	Variable	10	10	8	Palmerston Ave.	Minor	2	N	Res-Com	N/A	N	N	N	N	N	Y	N	11	20	Fence-Curb	2	N		Ave	N: 43.65584 W:7941010		
45	50	17	6-Oct-22	3:53 PM	3:58 PM	C	Variable	8	7	7	Benson Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	5	6	Curb-Grass Line	1	N		Ave	N:43.678212 W:79.432872		
46	51	17	6-Oct-22	4:05 PM	4:09 PM	C	Variable	7	7	7	Alberta Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	9	13	Curb	1	N		Ave	N:43.674865 W:79.431594		
47	52	20	4-Oct-22	8:15 AM	8:23 AM	B	Variable	18	17	17	Portland St.	Minor	2	Y	Park	<3	N	N	N	Y	N	Y	N	19	10	Curb-Grass Line	2	N		Street	N:43.642606 W:79.399201		Because of ongoing construction, moved to the westside of the street (2nd photo)
48	53	20	3-Oct-22	10:42 AM	10:53 AM	B	Variable	8	8	8	Wolseley St.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	18	5	Fence-Curb	2	N		Street	N:43.648212 W:79.40232		
49	54	20	3-Oct-22	11:04 AM	11:13 AM	B	Variable	18	8	18	Dennison Ave.	Lane	1	N	Res	N/A	N	N	N	N	N	Y	N	7	1	Fence-Curb-Stairs(concrete)	1	N		Ave	N:43.648244 W:79.401169		
50	55	20	3-Oct-22	11:40 AM	11:48 AM	B	Variable	10.5	11.5	11.5	Augusta Ave.	Minor	2	N	Res	<3	N	N	N	N	N	Y	Y	22	6	Fence-Curb-Hedge	3	N		Ave	N: 43.64899 W:79.39992		Shelter giving out food so a large line of people
51	56	20	3-Oct-22	3:16 PM	3:20 PM	B	Variable	13	18	18	Napanee Ct.	Lane	1	N	Res	N/A	N	N	N	Y	N	N	Y	4	1	Fence-Curb	1	N	One black litter bin	Crescent	N:43.650732 W:79.399245		
52	57	20	3-Oct-22	2:57 PM	3:05 PM	B	Variable	7	18	7	Kensington Ave.	Minor	2	N	Res-Com	N/A	N	N	N	Y	N	Y	N	8	10	Curb	1	N		Ave	N: 43.65327 W:79.40027		Tight sidewalk with most of the sidewalk covered with patios
53	58	20	4-Oct-22	10:03 AM	10:14 AM	C	Variable	10	10	10	Glasgow St.	Lane	1	N	Res	N/A	N	N	N	N	N	Y	Y	12	7	Curb-Property Line (wall)	1	N		Street	N: 43.65666 W:79.39832		
54	59	20	3-Oct-22	11:18 AM	11:25 AM	C	Variable	8	8	8	Elm St.	Minor	2	N	Com-Res	N/A	Y	N	N	Y	N	Y	N	24	20	Curb	2	N		Ave	N: 43.65623 W:79.38979		
55	60	20	3-Oct-22	12:45 PM	12:52 PM	B	Variable	10	10	10	Oxley St.	Minor	2	N	Com-Res	N/A	N	N	N	N	N	Y	N	17	2	Curb	2	N		Street	N:43.646207 W:79.39473		
56	61	27	3-Oct-22	12:42 PM	12:56 PM	C	Variable	16	18	18	Grenville St.	Minor	2	N	Com	N/A	Y	Y	N	N	Y	Y	Y	6	19	Curb	1	N	Across Bay St, Across Grenville St	Street	N: 43.66172 W:79.38928	N:43.661453 W:79.387575	
57	62	20	11-Oct-22	7:52 AM	8:01 AM	B	Variable	8	5.5	8	Old Park Rd.	Minor	2	Y	Res	3 to 6	N	N	N	N	N	Y	N	10	3	Hedge-Curb-Grass Line	2	N		Road	N:43.702858 W:79.4732184		
58	63	20	11-Oct-22	8:23 AM	8:28 AM	B	Variable	6	6	16	Vesta Dr.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	4	4	Hedge-Curb-Grass Line	1	N		Drive	N:43.701059 W:79.421058		
59	64	21	11-Oct-22	8:10 AM	8:18 AM	B	Variable	4.5	8	9	Ava Rd.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	6	0	Fence-Hedge-Curb-Grass Line	1	N		Road	N:43.697515 W:79.422191		
60	65	21	11-Oct-22	8:32 AM	8:38 AM	B	Variable	9.5	9.5	10	Vesta Dr.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	8	2	Hedge-Curb-Grass Line	1	N		Drive	N:43.697692 W:79.419561		
61	66	21	7-Oct-22	9:01 AM	9:09 AM	C	Variable	7	7	7	Bathurst St.	Major	4	N	Res	N/A	N	Y	N	Y	Y	Y	Y	9	15	Curb-Grass Line	1	N	Grey 3-slot divider litter bin, beside bus stops	Street	N:43.687363 W:79.420017		
62	67	7	12-Oct-22	10:40 AM	10:48 AM	B	Fixed	18	18	18	Windhill Cres.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	26	5	Curb-Grass Line	4	N		Crescent	N:43.746121 W:79.546494		
63	68	7	12-Oct-22	10:28 AM	10:34 AM	B	Variable	11.5	8	11.5	Franson Cres.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	23	1	Curb-Grass Line	2	N		Crescent	N:43.740907 W:79.542726		
64	69	9	7-Oct-22	11:33 AM	11:42 AM	B	Fixed	18	18	18	Wilson Ave.	Major	4	N	Res	3 to 6	N	N	N	Y	Y	Y	Y	21	48	Curb	4	N	Grey one slot divider	Ave	N:43.723595 W:79.493111		
65	70	8	12-Oct-22	8:35 AM	8:41 AM	B	Fixed	18	18	18	Tuscan Gate	Major	2	Y	Com-Industrial	<3	N	N	N	Y	Y	Y	Y	14	9	Curb-Grass Line	2	N	Grey (3-way) divider	Gate	N:43.754137 W:79.483471		
66	71	10	7-Oct-22	10:31 AM	10:35 AM	B	Variable	9	9	9	Josephine Rd.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	1	1	Hedge-Curb-Grass Line-Tree Line	1	N		Road	N: 43.74353 W:79.44755		
67	72	10	7-Oct-22	9:40 AM	9:46 AM	B	Variable	9	9	9	Heaton St.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	1	0	Curb-Grass Line-Tree Line	1	N		Street	N:43.75766 W:79.440932		

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed or Variable	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
68	73	23	7-Oct-22	7:58 AM	8:15 AM	B	Variable	6	7.5	7.5	Newtonbrook Blvd.	Lane	2	N	Res	<3	N	N	N	N	N	Y	N	31	4	Fence-Hedge-Grass Line-Tree Line	4	N		Blvd	N:43.483738 W:79.423247		
69	74	23	7-Oct-22	9:25 AM	9:33 AM	B	Fixed	18	18	18	Churchill Ave.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	9	8	Curb-Grass Line-Tree Line	1	N		Ave	N:43.770336 W:79.42859		
70	75	23	7-Oct-22	9:03 AM	9:09 AM	B	Variable	9	9	9	Tamworth Rd.	Minor	2	N	Res	<3	N	N	N	N	Y	Y	N	8	0	Curb-Grass Line-Tree Line	1	N		Road	N:43.772356 W:79.420428		
71	76	23	7-Oct-22	9:13 AM	9:20 AM	B	Variable	12	12	12	Tamworth Rd.	Minor	2	N	Res	<3	N	N	N	N	Y	Y	N	12	0	Curb-Grass Line-Tree Line	2	N		Road	N:43.768176 W:79.418767		
72	77	23	7-Oct-22	8:42 AM	8:55 AM	B	Fixed	18	18	18	Doris Ave.	Walkway	4	N	Res	<3	N	Y	N	Y	Y	Y	Y	31	13	Curb-Grass Line-Tree Line	4	N		Ave	N:43.775581 W:79.412541		Not a road; its a pathway through a park; perpendicular to Doris Ave
73	78	23	7-Oct-22	8:27 AM	8:35 AM	B	Variable	9	9	9	Byng Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	6	0	Curb-Grass Line-Stone-Tree Line	1	N		Ave	N:43.779743 W:79.401193		
74	79	24	7-Oct-22	7:43 AM	7:50 AM	B	Variable	9	9	9	Dumont St.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	9	1	Curb-Grass Line-Tree Line	1	N		Street	N:43.794329 W:79.415154		
75	80	24	7-Oct-22	7:25 AM	7:33 AM	B	Variable	7	7	7	Michigan Dr.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	3	0	Curb-Grass Line	1	N		Drive	N:43.799704 W:79.407282		
76	81	24	12-Oct-22	8:29 AM	8:35 AM	A	Variable	6	6	7	Wycliffe Ave.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	2	3	Curb-Rock garden-Grass Line	1	N		Ave	N:43.775047 W:79.388901		
77	82	33	12-Oct-22	8:05 AM	8:14 AM	A	Variable	16	16	16	Cobblestone St.	Minor	2	N	Res	3 to 6	N	N	N	N	N	Y	N	0	4	Curb-Grass Line	1	N		Street	N:43.786345 W:79.364541		
78	83	33	12-Oct-22	9:17 AM	9:35 AM	A	Fixed	18	18	18	Leslie St.	Major	4	N	Res	3 to 6	N	N	N	N	Y	Y	Y	25	11	Curb-Grass Line-Street tree mounds	4	N	Litter & Recycling	Street	N:43.781306 W:79.365762		
79	84	33	12-Oct-22	12:00 AM	10:06 AM	A	Fixed	18	18	18	George Henry Blvd.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	0	1	Curb- Fence-Grass Line	1	N		Blvd	N:43.773289 W:79.348297		
80	85	34	7-Oct-22	2:03 PM	2:10 PM	C	Variable	17.5	17.5	17.5	Roywood Dr.	Minor	2	N	Res	>6	N	N	N	Y	Y	Y	Y	20	18	Curb-Grass Line	2	N		Drive	N:43.764512 W:79.323616		
81	86	34	7-Oct-22	1:51 PM	1:55 PM	C	Variable	18	10.5	12	Don Mills Rd.	Major	6	N	Park	N/A	N	N	N	Y	Y	Y	Y	17	19	Curb-Grass Line	2	N	beside bus stop	Road	N: 43.76163 W:79.34708		A lot of litter caught in grassline past barriers
82	87	34	7-Oct-22	2:20 PM	2:26 PM	C	Variable	17.5	17.5	17.5	Aldenham Cres.	Minor	2	N	Res	<3	N	N	N	N	N	N	N	0	6	Grass Line-Tree Line	1	N		Crescent	N: 43.75004 W:79.32938		
83	88	25	7-Oct-22	2:38pm	2:43pm	C	Variable	2	2	2	Tottenham Rd.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	0	10	Curb	1	N		Road	N: 43.73092 W:79.35318		
84	89	25	7-Oct-22	1:08pm	1:14pm	C	Variable	17	17	17	Riderwood Dr.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	2	5	Curb-Grass Line	1	N		Drive	N:43.75534 W:79.36512		
85	90	25	7-Oct-22	11:06am	11:14am	C	Variable	14	16	16	Ealing Dr.	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	2	4	Curb-Grass Line	1	N		Drive	N: 43.76104 W:79.36694		
86	91	25	7-Oct-22	11:33am	11:40am	C	Variable	2	2	2	Wimpole Dr.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	2	5	Curb	1	N		Drive	N: 43.76035 W:79.38058		
87	92	25	7-Oct-22	12:06pm	12:15pm	C	Fixed	18	18	18	York Mills Rd.	Major	4	N	Park	<3	N	N	N	N	Y	Y	Y	4	32	Curb-Grass Line	1	N	1 set of garbage and recycling carts	Road	N: 43.74873 W:79.38266		
88	93	25	7-Oct-22	11:48am	11:55am	C	Variable	17	17	17	Danville Dr.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	0	5	Curb-Grass Line	1	Y	Home owner sweeping up the area	Drive	N:43.7496 W:79.396405		
89	94	25	11-Oct-22	10:43am	10:51am	B	Fixed	18	18	18	Bayview Ave	Major	1	N	Com	>6"	N	N	N	Y	Y	Y	Y	27	12	Curb-Hedge-Grass Line	4	N	Grey City Bin	Ave	N:43.72791 W:79.383458		
90	95	25	11-Oct-22	10:59am	11:05am	B	Variable	8	8	8	Stratford Cres.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	2	1	Curb-Fence-Grass Line	1	N		Cres	N:43.720241 W:79.385692		Home renovation - crews and equipment within site
91	96	25	11-Oct-22	10:22am	10:33am	B	Variable	18	18	7	Bayview Ave.	Major	4	Y	Com	3-6"	N	N	N	Y	Y	Y	Y	22	10	Curb-Grass Line	4	N	Grey litter bin (3-slot).	Ave	N:43.720016 W:79.378496		
92	97	25	11-Oct-22	12:13pm	12:19pm	B	Variable	7	7	7	Deloraine Ave.	Minor	2	Y	Res	<3	N	N	N	N	N	Y	N	10	1	Curb-Grass Line	2	N		Ave	N:43.773397 W:79.40466		
93	98	16	11-Oct-22	9:37am	9:45am	B	Variable	8	8	8	Henning Ave.	Lane	2	N	Res	N/A	N	N	N	N	N	N	N	24	1	Curb	4	N		Ave	N:43.70689 W:79.401692		
94	99	15	6-Oct-22	8:59am	9:07am	B	Variable	17	18	18	Glenmount Ave.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	4	1	Curb-Hedge-Grass Line	1	N		Ave	N:43.713307 W:79.431306		
95	100	15	6-Oct-22	8:40am	8:53am	B	Variable	9	2	9	Dalemount Ave.	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	44	6	Curb-Grass Line	4	N		Ave	N:43.71669 W:79.434589		middle of site affected by construction
96	101	15	6-Oct-22	9:18am	9:26am	B	Variable	6.5	6.5	7.5	Lanark Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	21	9	Curb	2	N		Ave	N:43.696401 W:79.444255		
97	102	15	6-Oct-22	9:32am	9:38am	B	Variable	6.5	6.5	6.5	Ronald Ave.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	7	0	Curb-Grass Line	1	N		Ave	N:43.697006 W:79.458551		
98	103	12	6-Oct-22	11:11am	11:18am	B	Variable	9	9	9	Amesbury Dr.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	16	5	Curb-Hedge-Grass Line	2	N		Drive	N:43.700463 W:79.481185		
99	104	12	6-Oct-22	12:16pm	12:27pm	B	Fixed	18	18	18	Brookhaven Dr.	Minor	2	Y	Res	3-6"	N	N	N	N	N	Y	N	25	8	Fence-Curb-Grass Line	4	N	School fence alongside site point holding most of the litter	Drive	N:43.700807 W:79.495005		
100	105	12	6-Oct-22	12:33pm	12:43pm	B	Fixed	18	18	18	Thurodale Ave.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	19	11	Curb-Grass Line	2	N		Ave	N:43.701581 W:79.500824		

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed or Variable	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
101	106	12	5-Oct-22	11:42am	11:44am	B	Variable	7.5	7.5	7.5	Lampton Ave	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	7	3	Curb-Grass Line	1	N	Grass/soil patch in front of house #221	Ave	N:43.68112 W:79.49635		
102	107	9	7-Oct-22	11:10am	11:17am	B	Variable	9	9	9	Cornelius Pkwy.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	5	7	Curb	1	N	Grass lawn in front of houses.	Parkway	N:43.725439 W:79.476947		
103	108	9	7-Oct-22	10:59am	11:05am	B	Variable	18	14	10	Murray Rd.	Minor	2	N	Res-Ind	<3	N	N	N	N	N	Y	N	5	1	Curb-Grass-Tree Line	1	N	Fence directly facing industrial zone.	Road	N:43.73271 W:79.472594		
104	109	9	7-Oct-22	10:47am	10:53am	B	Fixed	18	18	18	Beffort Rd.	Minor	2	N	Res	<3	N	N	N	N	N	Y	N	15	1	Hedge-Curb-Grass	3	N	Weed coverage acting as a border area.	Road	N: 43.73549 W:79.46059		
105	110	9	12-Oct-22	8:52am	9:04am	B	Fixed	18	18	18	Sheppard Ave. W	Major	4	N	Res	<3	N	N	N	Y	Y	Y	Y	29	12	Curb-Grass	4	N	Residential complex adjacent to site point	Ave	N:43.742124 W:79.498615		one grey Toronto litter bin
106	111	8	12-Oct-22	9:29am	9:41m	B	Variable	8	8	8	Finch Ave. W	Major	4	Y	Res	N/A	N	N	N	N	N	Y	N	67	14	Fence-Curb	4	N		Ave	N:43.757832 W:79:512107		construction on site, temporary fence acting as catch point
107	112	8	12-Oct-22	9:50am	9:59am	B	Fixed	18	18	18	Jane St.	Major	4	Y	Res	<3	N	N	N	Y	Y	Y	Y	22	17	Curb-Grass	4	N	Grey 2 slot litter bin	Street	N:43.771125 W:79.521855		
108	113	8	12-Oct-22	7:56am	8:03am	B	Fixed	18	18	18	Magnetic Dr.	Minor	2	N	Ind	<3	N	N	N	N	N	N	N	17	7	Grass Line	3	N	Industrial/Delivery services	Dr.	N:43.66427 W:79.44927		
109	114	8	12-Oct-22	8:15am	8:23am	B	Fixed	18	18	18	Chesswood Dr.	Major	2	N	Com-Ind	<3	N	N	N	Y	Y	Y	Y	21	13	Curb-Grass Line	3	N	one grey Toronto litter bin	Dr.	N:43.764824 W:79.477692		
110	115	16	11-Oct-22	11:36am	11:50am	B	Variable	9	9	9	Lawrence Ave. W	Major	4	Y	Com	<3	N	N	N	Y	Y	Y	Y	33	4	Curb-Bus shelter- grass patches	4	N	Grey 3 slot litter bin	Ave	N:43.722873 W:79.414069		construction on site, blue water pipe and ramps acting as catchment points
111	116	12	6-Oct-22	11:28am	11:36am	B	Fixed	18	18	18	Tretheway Dr	Major	4	N	Res-Park	<3	N	N	N	Y	Y	Y	Y	25	11	Curb-Grass Line	4	N	1 divided grey city bin	Drive	N:43.63697 W:79.43589		
112	117	16	11-Oct-22	11:27am	11:33am	B	Variable	7.5	7.5	8.5	Avenue Rd.	Major	4	N	Res	<3	N	N	N	N	Y	Y	N	6	2	Curb	1	N		Road	N:43.719635 W:79.415407		
113	118	13	4-Oct-22	9:53am	9:56am	B	Variable	9	3	3	Woodland Hts.	Lane	2	N	Res	3-6"	N	N	N	N	N	N	N	1	2	Curb-Hedge-Grass Line	1	N		Heights	N: 43.64022 W:79.46885		
114	119	6	4-Oct-22	11:45am	12:08pm	B	Fixed	18	18	18	Butterick Rd.	Minor	2	N	Ind	<3	N	N	N	Y	N	Y	N	47	12	Grass Line-Curb	4	N		Road	N: 43.61330 W:79.53040		
115	120	32	5-Oct-22	11:33am	11:41am	A	Variable	10.3	10.6	13	Queen St. East	Major	4	N	Com	N/A	N	Y	N	Y	Y	Y	N	7	22	Curb	1	N		Street	N: 43.67118 W:79.29537		
116	121	32	5-Oct-22	11:17am	11:24am	A	Variable	8.8	6.5	7.8	Glen Stewart Ave.	Minor	2	N	Res	3-6"	N	N	N	Y	N	Y	N	0	5	Curb-Grass Line	1	N		Ave	N: 43.67783 W:79.29945		
117	122	30	5-Oct-22	12:13pm	12:25pm	C	Variable	7.5	7.5	7.5	Walpole Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	55	21	Curb	4	N		Ave	N:43.674358 W:79.32857		
118	123	32	5-Oct-22	8:15am	8:22am	A	Variable	6.5	6.5	6.5	Barker Ave.	Minor	2	N	Res-Com	N/A	N	Y	N	N	Y	Y	N	13	9	Curb	2	N		Ave	N:43.694514 W:79.316257		
119	124	31	5-Oct-22	10:15am	10:21am	A	Variable	8	9	7	Halsey Ave.	Minor	2	N	Res-Com	3-6"	N	Y	N	Y	N	Y	N	10	10	Curb-Grass Line	2	N	Infront of plaza by the shrubs/ferns-accumulation of large litter items	Ave	N:43.699582 W:79.298125		
120	125	32	4-Oct-22	2:39pm	2:40pm	A	Variable	12.1	12.4	12.1	Aldridge Ave.	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	6	9	Curb-Grass Line	1	N		Ave	N:43.684154 W:79.317425		
121	126	32	4-Oct-22	1:20pm	1:33pm	A	Variable	5.5	5	5.3	Ashdale Ave.	Minor	2	N	Res	>6"	N	N	N	Y	N	N	N	2	9	Curb-Grass line	1	N		Ave	N:43.667206 W:79.319603		
122	127	32	4-Oct-22	1:43pm	1:51pm	A	Variable	6.5	6.4	8.5	Orchard Park Blvd.	Minor	2	N	Res	N/A	N	N	N	Y	N	Y	N	5	8	Curb	1	N	Park recycling tote (no garbage one)	Blvd	N: 43.66793 W:79.31413		
123	128	32	5-Oct-22	10:55am	11:00am	A	Variable	6	4	4	Wayland Ave.	Minor	2	N	Res	<3	N	N	N	Y	N	N	N	6	5	Curb-Hedge	1	N		Ave	N:43.68302 W:79.29525		
124	129	32	5-Oct-22	10:30am	10:44am	A	Variable	6.8	7	9	Gerrard St. E	Minor	4	N	Com-Res	3-6"	N	N	N	Y	Y	Y	N	10	12	Curb-Grass Line	2	N	Old style litter bin (missing foot pedal)	Street	N: 43.68512 W:79.29453		
125	131	44	7-Oct-22	12:13pm	12:22pm	A	Fixed	18	18	18	Ellesmere Rd.	Major	4	Y	Com	>6"	Y	N	N	Y	Y	Y	Y	22	9	Curb-Grass Line	2	N	Grey Toronto Bin	Road	N: 43.78751 W:79.18439		
126	132	44	5-Oct-22	12:07pm	12:16pm	A	Variable	10	10	8	Kingston Rd	Minor	4	N	Com	N/A	Y	Y	N	Y	Y	Y	N	10	39	Curb- Building walls	2	N		Road	N: 43.680426 W:79.287991		
127	133	44	7-Oct-22	11:58am	12:05pm	A	Fixed	18	18	18	Hedge End Rd.	Minor	2	N	Res	<3	N	N	N	Y	N	N	N	7	1	Curb-Grass Line	1	N	Park garbage , recycling totes	Road	N:43.808348 W:79.173715		
128	134	44	7-Oct-22	11:17am	11:24am	A	Fixed	18	18	18	Portsmouth Dr.	Minor	2	N	Res	<3	N	N	N	N	N	N	N	1	2	Curb-Grass Line	1	N		Drive	N: 43.77567 W:79.14249		
129	135	44	7-Oct-22	11:41am	11:47am	A	Fixed	18	18	18	Broadbridge Dr.	Minor	2	N	Res	3-6"	N	N	N	N	N	N	N	4	1	Curb-Grass Line	1	N		Drive	N:43.78803 W:79.13211		
130	136	44	7-Oct-22	11:28am	11:36am	A	Fixed	18	18	18	Moorefield Dr.	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	3	1	Curb-Grass Line	1	N		Drive	N:43.78117 W:79.13486		
131	137	44	07-Oct-22	10:21am	10:28am	A	Fixed	18	18	18	Manse Rd	Minor	2	N	Res	3-6"	N	N	N	Y	Y	Y	Y	7	1	Curb-Grass Line	2	N	Grey Toronto Bin	Road	N: 43.76609 W:79.17428		
132	138	43	07-Oct-22	9:12am	9:21am	A	Fixed	18	18	18	Galloway Rd.	Minor	2	Y	Res	3-6"	N	N	N	N	N	Y	N	0	1	Curb-Grass Line-Hedge	1	N		Road	N: 43.75393 W:79.19131		
133	139	43	07-Oct-22	8:59am	9:08am	A	Fixed	18	18	18	Leverhume Cres.	Minor	2	N	Res	3-6"	N	N	N	N	N	N	N	2	5	Curb-Grass Line	1	N		Crescent	N: 43.75180 W:79.20234		
134	140	42	11-Oct-22	9:25am	9:30am	A	Variable	10	10	10	Scarborough-Pickering Town line	Minor	2	N	Farmland	over 6"	N	N	N	N	N	Y	N	10	1	Grass Line	1	N		Town Line	N:43.85195 W:79.16869		
135	141	42	11-Oct-22	10:20am	10:36am	A	Fixed	18	18	18	Littles Rd.	Minor	2	N	Res	3-6"	N	N	N	N	Y	Y	N	25	17	Curb	4	N		Road	N: 43.81741 W:79.20461		

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed or Variable	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
136	142	31	05-Oct-22	9:23am	9:37am	A	Variable	9.5	9	10	St Clair Ave. E	Major	3	N	Com-Res	N/A	Y	Y	N	N	Y	Y	N	39	25	Curb	4	N		Ave	N: 43.70797 W:79.30190		
137	143	31	05-Oct-22	8:59am	9:06am	A	Variable	9.6	10	10	Northdale Blvd.	Minor	2	Y	Res	3-6"	N	N	Y	N	N	N	N	0	3	Curb-Grass Line	1	N		Blvd	N:43.70875 W:79.31678		
138	144	29	05-Oct-22	11:50am	11:58am	C	Variable	7.5	7.5	7.5	Monarch Park Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	4	11	Curb-Grass Line	1	N		Ave	N:43.68537 W:79.328084		
139	145	29	05-Oct-22	10:39amn	10:55am	C	Variable	18	18	7	Plains Rd.	Minor	2	N	Res-Ind	< 3"	N	N	N	N	N	Y	N	8	24	Curb-Grass Line	1	N	School	Road	N:43.695004 W:79.332344		
140	146	30	05-Oct-22	3:08pm	3:13pm	C	Variable	7	7	7	Caroline Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	N	N	8	9	Curb-Grass Line	1	N	one way	Ave	N: 43.66066 W:79.33475		
141	147	30	05-Oct-22	2:30pm	2:38pm	C	Variable	9	9	9	Frizzell Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	8	11	Curb	1	N	one way	Ave	N:43.674373 W:79.343994		
142	148	29	05-Oct-22	2:09pm	2:20pm	C	Variable	16	9	7	Selkirk St.	Minor	2	N	Res-Com	N/A	N	N	N	N	N	Y	N	17	21	Curb-Fence-Grass Line	2	N	one way	Street	N:43.682139 W:79.345668		
143	149	29	05-Oct-22	1:45pm	2:05pm	C	Variable	8	8	8	Pape Ave	Major	4	N	Res-Com	N/A	Y	Y	N	N	Y	Y	Y	11	18	Curb-Grass Line	1	N	City Street Litter Bin: Grey 3-slot divider	Ave	N:43.686056 W:79.347524		a couple litter bins scattered through site, McDonald's in sight
144	150	30	05-Oct-22	3:40pm	3:56pm	C	Variable	16	16	16	Booth Ave.	Minor	2	N	Ind	N/A	N	N	N	N	N	Y	N	14	42	Curb-Fence	2	N		Ave	N:43.655503 W:79.342198		
145	151	29	05-Oct-22	10:20am	10:27am	C	Variable	7.5	7.5	7.5	Fernwood Gardens	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	5	20	Curb	1	N		Gardens	N: 43.691667 W: 79.356370		
146	152	35	05-Oct-22	3:00pm	3:11pm	A	Fixed	18	18	18	Zenith Dr.	Minor	2	N	Res	3-6"	N	N	N	N	N	N	N	11	14	Fence-Curb	2	N		Drive	N:43.7121 W:79.26971		
147	153	35	06-Oct-22	10:04am	10:19am	A	Variable	18	16	13.5	Kennedy Rd.	Major	4	N	Com-Res	< 3"	Y	Y	N	Y	Y	Y	Y	33	69	Curb	4	N	City Street Litter Bin: old style (missing foot pedal)	Road	N: 43.72653 W:79.26570		
148	154	35	06-Oct-22	9:06am	9:15am	A	Variable	10.7	7.2	10	Verdun Ave.	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	17	6	Curb-Hedge	2	N		Ave	N: 43.72926 W:79.25420		
149	155	35	06-Oct-22	9:37am	9:46am	A	Variable	12	18	18	Eglinton Ave. E	Minor	2	N	Com	3-6"	N	N	N	Y	Y	Y	N	19	43	Curb	2	N		Ave	N: 43.73277 W:79.26445	N: 43.7334173 W: -79.2616361	construction on site so site moved (see new coordinates)
150	156	37	06-Oct-22	11:57am	12:03pm	A	Variable	10	10	7.4	Sherwood Ave.	Minor	2	N	Res	3-6"	N	N	N	Y	N	Y	N	11	2	Curb-Grass Line	1	N		Ave	N: 43.74061 W:79.30096		
151	157	37	06-Oct-22	11:47am	11:53am	A	Fixed	18	18	18	Laxford Ave.	Minor	2	N	Res	< 3"	N	N	N	Y	N	N	N	4	2	Curb	1	N		Ave	N: 43.74242 W:79.29944		
152	158	37	06-Oct-22	11:12am	11:21am	A	Variable	11	11	11.8	Warden Ave.	Major	5	N	Res	3-6"	N	N	N	N	N	Y	N	15	11	Curb	2	N	5 lanes, center turn lane	Ave	N: 43.74329 W:79.29383		
153	159	37	06-Oct-22	11:30am	11:36am	A	Variable	12	10.5	10	Princemere Cr	Minor	2	N	Res	>6"	N	N	N	Y	N	Y	N	5	7	Curb	1	N		Crescent	N: 43.75507 W:79.30285		
154	160	37	07-Oct-22	7:36am	7:42am	A	Variable	6	4.5	8.7	Flora Dr.	Minor	2	Y	Res	< 3"	N	N	N	N	N	N	N	4	3	Curb-Grass Line	1	N		Drive	N: 43.74769 W:79.27628		
155	161	40	11-Oct-22	12:17pm	12:25pm	A	Fixed	18	18	18	Ellesmere Rd.	Major	6	Y	Com-Res	< 3"	Y	N	N	Y	Y	Y	Y	19	29	Curb	2	N	City Street Litter Bin: old style	Road	N: 43.767869 W:79.27332		
156	162	40	12-Oct-22	1:25pm	1:30pm	A	Fixed	18	18	18	Crocus Dr.	Minor	2	N	Res-Park	3-6"	N	N	N	Y	N	N	Y	2	6	Fence-Curb	2	N	Litter and Recycling Bin	Drive	N: 43.76871 W:79.30757		
157	163	40	12-Oct-22	1:06pm	1:11pm	A	Fixed	18	18	18	Murmouth Rd.	Minor	2	N	Res	< 3"	N	N	N	N	N	N	N	4	4	Curb-Grass Line	1	N		Road	N: 43.77826 W:79.29488		
158	164	40	12-Oct-22	12:52pm	12:56pm	A	Fixed	18	18	18	Kellen St.	Minor	2	N	Res	< 3"	N	N	N	Y	N	Y	N	7	30	Curb-Grass Line	2	N		Street	N: 43.78231 W:79.30687		
159	165	40	12-Oct-22	12:41pm	12:48pm	A	Fixed	18	18	18	Huntingwood Dr.	Minor	2	N	Res	3-6"	N	N	N	N	Y	Y	N	3	6	Curb	1	N	2 car lanes, 2 bike lanes	Drive	N: 43.78631 W:79.30830		
160	166	39	12-Oct-22	12:28pm	12:34pm	A	Variable	18	14	18	Kilchurn Castle Dr.	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	3	1	Curb-Grass Line	2	N		Drive	N: 43.79472 W:79.29494		
161	167	39	12-Oct-22	10:37am	10:44am	A	Fixed	18	18	18	Sanwood Blvd	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	2	7	Curb-Grass Line	1	N		Blvd	N: 43.81645 W:79.31322		
162	168	39	12-Oct-22	10:26am	10:33am	A	Fixed	18	18	18	Chapel Park Sq	Minor	2	N	Res	3-6"	N	N	N	N	N	N	N	3	8	Curb-Grass Line	1	N		Square	N:43.81988 W:79.31416		
163	169	41	11-Oct-22	3:00pm	3:07pm	A	Fixed	18	18	18	Midland Ave	Minor	4	N	Res	< 3"	N	N	N	N	N	Y	N	1	4	Curb-Grass Line	2	N		Ave	N: 43.79361 W:79.28186		area under construction
164	170	41	11-Oct-22	2:18pm	2:27pm	A	Fixed	18	18	18	Crockamhill Dr.	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	22	8	Curb	3	N		Drive	N: 43.79812 W:79.28194		
165	171	40	11-Oct-22	1:59pm	2:07pm	A	Fixed	18	18	18	Scoville Sq.	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	13	2	Curb	2	N		Square	N: 43.82558 W:79.28783		
166	172	41	11-Oct-22	1:35pm	1:45pm	A	Fixed	18	18	18	Maybrook Dr.	Minor	2	N	Ind	< 3"	N	N	N	N	Y	N	Y	9	13	Curb	1	N	Litter and Recycling Bin	Drive	N:43. 82394 W:79.26061		
167	173	32	05-Oct-22	12:22pm	12:28pm	A	Variable	6.5	6.7	6.7	Victoria Park Ave.	Minor	2	N	Res	3-6"	Y	N	N	Y	Y	Y	N	8	13	Curb-Grass Line	1	N		Ave	N:43.68077 W:79.28403		
168	174	36	06-Oct-22	7:40am	7:74am	A	Variable	6.9	6.5	4.5	Wynnview Crt.	Minor	2	N	Res	3-6"	N	N	N	Y	N	N	N	2	12	Tree Line	1	N		Court	N: 43.69851 W:7925414		
169	175	36	06-Oct-22	8:00am	8:07am	A	Variable	18	10.8	16	Sloley Rd.	Minor	2	N	Res	3-6"	N	N	N	Y	N	Y	N	5	7	Curb	1	N		Road	N: 43.72042 W:79.23039		
170	176	36	06-Oct-22	8:36am	8:42am	A	Variable	10.2	17	17	Randall Cres.	Minor	2	N	Res	>6"	N	N	N	Y	N	N	N	1	3	Curb	1	N		Crescent	N:43.72835 W:79.23933		
171	177	36	06-Oct-22	8:51am	8:56am	A	Variable	3	3	3	Randall Cres.	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	3	2	Curb	1	N		Crescent	N: 4372633 W:79.23846		
172	178	36	06-Oct-22	8:19am	8:29am	A	Variable	7.3	6	6.2	Kingston Rd	Major	6	Y	Res-Com	3-6"	N	N	N	N	N	Y	Y	29	20	Curb-Fence	4	N	bin overflowing	Road	N:43.72412 W:79.23384		

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed or Variable	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
173	179	36	07-Oct-22	8:24am	8:33am	A	Fixed	18	18	18	Eglinton Ave. E	Major	4	Y	Com	< 3"	N	Y	N	Y	Y	Y	Y	10	15	Curb-Grass Line	2	N	City Street Litter Bin: old style (foot pedal missing)	Ave	N: 43.74324 W:79.21822		
174	180	38	07-Oct-22	7:54am	8:01am	A	Variable	16	16	12.5	Suraty Ave.	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	1	3	Curb-Grass Line	1	N		Ave	N: 43.76101 W:79.24915		
175	181	38	11-Oct-22	11:33am	11:37am	A	Fixed	18	18	18	Lynnbrook Dr.	Minor	2	N	Res	< 3"	N	N	N	Y	N	Y	N	3	7	Curb-Grass Line	1	N		Drive	N: 43.77222 W:79.24480		
176	182	38	11-Oct-22	11:52am	11:59am	A	Fixed	18	18	18	Progress Ave.	Major	4	N	Com	>6"	N	N	N	Y	N	Y	N	32	11	Curb	4	N		Ave	N: 43.77703 W:79.24947		
177	183	42	11-Oct-22	11:04am	11:14am	A	Fixed	18	18	18	Sheppard Ave. E	Major	6	N	Com-Res	3-6"	N	Y	N	Y	Y	Y	Y	17	25	Curb	3	N	City Street Litter Bin: old style (missing foot pedal)	Ave	N: 43.79432 W:79.23630		
178	184	42	11-Oct-22	10:47am	10:54am	A	Variable	13	7	7	Unita Gr. (Grove)	Minor	2	N	Res	3-6"	N	N	N	Y	N	Y	N	8	3	Curb-Fence	1	N		Grove	N: 43.80146 W:79.22691		
179	201	30	05-Oct-22	2:48pm	2:56pm	C	Variable	7.5	7.5	7.5	Broadview Ave.	Major	4	N	Res	N/A	N	N	N	Y	Y	Y	Y	15	10	Curb	1	N	City Street Litter Bin at bus stop	Ave	N:436733 W:79.3561		
180	202	26	05-Oct-22	9:14am	9:21am	C	Variable	8	8	8	Esandar St.	Minor	2	N	Ind	N/A	N	N	N	N	N	Y	N	8	9	Curb	1	N		Street	N:43.70778 W:79.35693	N: 43.707568 W: 79.356924	
181	203	22	05-Oct-22	8:00am	8:13am	C	Variable	8	8	8	Cleveland St.	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	9	12	Curb	1	N		Street	N:43.704157 W:79.378688		elementary school nearby
182	204	22	11-Oct-22	9:23am	9:30am	B	Variable	18	8	8	Berwick Ave.	Minor	2	N	Res-Com	< 3"	N	N	N	N	N	Y	N	6	5	Hedge-Curb-Grass Line	1	N		Ave	N:43.704017 W:79.399475	N: 43.7038535 W: 79.3994396	
183	205	22	11-Oct-22	9:06am	9:14am	B	Fixed	18	18	18	Chaplin Cres	Minor	2	N	Res	< 3"	N	Y	N	N	N	Y	Y	12	3	Curb-Grass Line-Hedge	2	N	City Street Litter Bin: old style (missing foot pedal)	Crescent	N:43.698121 W:79.398555		
184	206	22	06-Oct-22	10:13am	10:17am	C	Variable	9	8	8	Avenue Rd.	Major	6	N	Res	N/A	N	N	N	N	Y	Y	N	0	9	Curb-Hedge	1	N		Road	N:43.683928 W:79.400897		
185	207	27	06-Oct-22	8:50am	9:00am	C	Variable	7.5	8	8	Roxborough St. W	Major	2	N	Com-Res	N/A	Y	Y	N	N	N	Y	N	23	19	Curb	2	N		Street	N:43.678265 W:79.390939		Starbucks nearby
186	208	27	06-Oct-22	8:27am	8:38am	C	Variable	12	10	10	Mt. Pleasant Rd.	Major	4	N	Res	N/A	N	N	N	N	N	Y	N	8	11	Curb	1	N		Road	N:43.674473 W:79.380628		school
187	209	28	04-Oct-22	11:06am	11:15am	A	Variable	6	5.3	6	Prospect St.	Minor	2	N	Com-Res	< 3"	N	N	N	Y	N	Y	N	14	8	Fence-Hedge-Curb	1	N		Street	N:43.666804 W:79.371309		
188	210	27	03-Oct-22	4:55pm	5:15pm	A	Variable	18	9.4	11	Mutual St.	Minor	2	N	Res-Com	< 3"	N	N	N	Y	N	Y	Y	23	20	Curb-Bike Rack	2	N	City Street Litter Bin: old style (foot pedal missing) garbage + recycling	Street	N:43.65601 W:79.37529		
189	211	20	03-Oct-22	1:02pm	1:13pm	B	Variable	13.5	13	12	John St.	Major	4	Y	Res-Com	N/A	N	N	N	N	N	Y	N	10	9	Curb	1	N		Street	N:43.64649 W:79.38526		
190	212	28	03-Oct-22	11:07am	11:15am	A	Variable	8	11	6	Colbourne St.	Minor	2	N	Com	N/A	N	N	N	N	N	Y	N	5	22	Curb	1	N		Street	N:43.648736 W:79.377173	N: 43.648736 W: 79.369819	
191	213	28	03-Oct-22	11:32am	11:39am	A	Variable	6.5	10	6	George St.	Minor	2	N	Res	N/A	N	N	N	N	Y	N	N	12	10	Curb	1	N		Street	N:43.647814 W:79.369819		
192	214	28	03-Oct-22	1:35pm	1:44pm	A	Variable	18	8	10	Richmond St. E.	Major	4	N	Com	< 3"	Y	N	N	N	N	Y	N	1	18	Curb	1	N		Street	N:43.654791 W:79.364009		
193	215	28	03-Oct-22	3:56pm	4:04pm	A	Variable	8	6.7	7.8	Pashler Ave.	Lane	1	N	Res	< 3"	N	N	N	N	N	N	Y	14	12	Fence-Curb	1	N	one way (local traffic only), basketball court fence	Ave	N:43.659365 W:79.363975	N: 43.659365 W: 79.359056	bin was overflowing
194	216	28	03-Oct-22	3:30pm	3:38pm	A	Variable	5	5	5.5	Bright St.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	10	4	Curb-Fence	1	N	one driving lane	Street	N:43.655997 W:79.359537		
195	217	28	03-Oct-22	4:24pm	4:30pm	A	Fixed	18	18	18	Dundas St. E	Major	2	N	Com-Res	N/A	Y	N	N	Y	Y	Y	Y	15	28	Curb-Planter Boxes	2	N	City Street Litter Bin: Grey - across street	Street	N:43.660802 W:79.359056		
196	218	30	04-Oct-22	9:11am	9:24am	A	Fixed	18	18	18	Carroll St.	Lane	1	N	Res	< 3"	N	N	N	Y	N	Y	Y	17	11	Curb	1	N	one-way street/dead end, coffee shop adjacent, Park Litter Bins: garbage, recycling and pet waste carts located at the park nearby	Street	N:43.659377 W:79.353158		
197	219	30	04-Oct-22	8:58am	9:05am	A	Variable	6.5	6.2	18	Kintyre Ave.	Minor	2	N	Res	< 3"	N	N	N	Y	N	Y	Y	6	12	Curb-Grass Line	1	N	One-way, City Street Litter Bin: garbage, recycling, pet waste	Ave	N:43.660121 W:79.351637	N: 43.660348 W:79.350978	
198	220	28	03-Oct-22	11:46 AM	11:56 AM	D	Fixed	18	18	18	Lake Shore Ave.	Major	2	N	Park	3"-6"	N	N	N	N	N	N	Y	1	3	Grass Line + Tree Line	1	N	Garbage cart	Ave	N:43.61341 W:79.38316		
199	221	32	04-Oct-22	2:58pm	3:08pm	A	Variable	5.7	7.4	7	Cedarvale Ave.	Minor	2	N	Res	over 6"	N	N	N	Y	N	Y	N	9	11	Curb-Grass Line	1	N	Cleanup: Streets look oddly clean, puddles look "swept" into the middle of the road, grate dirt looks brushed (see photo)	Ave	N:43.687115 W:79.311354		
200	222	26	05-Oct-22	8:40am	8:52am	C	Fixed	18	18	18	Don Mills Rd.	Major	4	N	Com	3-6"	N	N	N	Y	Y	Y	Y	21	15	Curb-Grass Line	2	N		Road	N: 43.71761 W:79.33791		Science Center

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed or Variable	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
201	223	26	05-Oct-22	9:38am	9:59am	C	Fixed	18	18	18	Millwood Rd	Major	4	Y	Com	< 3"	N	N	N	Y	Y	Y	Y	10	16	Curb-Grass Line	2	N	Garbage/Recycling by bus stop	Road	N: 43.70166 W:79.35196		
202	224	26	05-Oct-22	9:58am	10:08am	C	Fixed	18	18	18	Overlea Blvd.	Major	4	Y	Res-Com	< 3"	Y	Y	N	Y	Y	Y	Y	4	18	Curb-Fence-Hedge-Grass Line	1	N	City Street Litter Bin: Grey (3-slot) divider beside bus stop	Blvd	N:43.703885 W:79.350232		
203	250	19	04-Oct-22	9:03am	9:08am	B	Fixed	18	18	18	Stafford St.	Minor	2	N	Res	N/A	N	N	N	Y	N	N	N	5	2	Curb	1	N		Street	N:43.64196 W:79.41069		
204	251	20	03-Oct-22	10:45am	11:04am	C	Fixed	18	18	18	University Ave	Major	8	Y	Com	N/A	N	N	N	Y	N	Y	Y	11	13	Curb	1	N	City Street Litter Bin: old style (foot pedal missing), Courtyard Bins	Ave	N: 43.65351 W:79.38787	N: 43.652863 W: -79386226	
205	252	28	03-Oct-22	12:12 PM	12:21 PM	D	Fixed	18	18	18	Avenue (of the Island)	Lane	1	N	Park	< 3"	Y	N	N	Y	N	N	Y	5	1	Grass Line-Tree Line	1	N	Garbage & recycling carts in area.	Ave	N:43.62126 W:79.376807		
206	254	19	03-Oct-22	4:33pm	4:43pm	C	Variable	8	8	8	Clinton St.	Minor	2	N	Res	3"-6"	N	N	N	N	N	Y	N	21	13	Fence-Hedge-Curb-Concrete + Stone + Wood garden walls	3	N		Street	N: 43.66333 W:79.41704		Different property lines with different catch points. A lot of litter caught in property line catch points
207	256	28	03-Oct-22	1:40pm	1:46pm	B	Fixed	18	18	18	King St. W.	Major	4	Y	Res	N/A	N	N	N	N	Y	Y	N	11	2	Curb	1	N		Street	N: 43.64782 W:79.38412		
208	257	28	04-Oct-22	11:42am	11:48am	A	Variable	5.6	6	4.7	Parkview Ave.	Minor	2	N	Res	< 3"	N	N	N	N	N	N	N	1	4	Curb-Grass Line-Rock/wood garden walls	1	Y	local woman walks around cleaning up litter in her off time	Ave	N:43.670043 W:79.364289		workers cutting overhead wires resulted in slow site
209	258	28	03-Oct-22	2:11pm	2:28pm	A	Variable	10	9.7	10	Sackville St.	Lane	2	N	Res	3"-6"	N	N	N	Y	Y	N	N	39	10	Curb-Tree Line	4	N		Street	N:43.65501 W:79.361196		
210	259	27	03-Oct-22	10:30am	10:40am	A	Fixed	18	18	18	Dundas St. W.	Major	4	N	Com	N/A	Y	Y	Y	Y	Y	Y	Y	6	65	Curb-Planter Boxes	1	N	City Street Litter Bin: Net style garbage, recycling, cigarette	Street	N: 43.65627 W:79.38117		
211	260	20	03-Oct-22	2:37pm	2:44pm	B	Fixed	18	18	18	Spadina Ave.	Major	6	Y	Com	N/A	N	Y	Y	N	Y	Y	Y	29	10	Curb	3	N	City Street Litter Bin: Grey 2 slot divider	Ave	N: 43.65315 W:79.39798		
212	261	20	04-Oct-22	12:12pm	12:22pm	C	Variable	8	8	8	Augusta Ave.	Lane	1	N	Com-Res	N/A	N	N	N	N	N	Y	N	5	23	Curb	1	N		Ave	N:43.65591 W:79.40253		
213	270	28	03-Oct-22	12:37 PM	12:42 PM	D	Variable	18	11.5	12	Lake Shore Ave.	Boardwalk	1	N	Park	N/A	N	N	N	Y	N	N	N	2	0	Grass Line-Concrete Wall	1	N		Ave	N:43.62270 W:79.36176		
214	271	36	05-Oct-22	2:30pm	2:38pm	A	Variable	15	7	6	Wynnview Crt.	Minor	2	N	Res	3-6"	N	N	N	Y	N	N	N	1	7	Fence-Tree Line	1	N		Court	N:43.69780 W:79.25379	N: 43.697763 W: 79.253727	
215	300	19	03-Oct-22	4:13pm	4:24pm	C	Variable	15	15	15	Bloor St. W	Major	4	N	Com-Res	N/A	Y	Y	N	N	N	Y	N	24	22	Curb-Concrete Gardens-Building Walls	3	N		Street	N:43.66438 W:79.41489		
216	301	20	03-Oct-22	3:50pm	4:03pm	C	Variable	14	14	14	Bloor St. W.	Major	2	N	Com-Res	N/A	Y	N	N	Y	N	Y	Y	10	20	Curb	1	N	City Street Litter Bin: New bins (Litter, recycling x2, cigarette)	Street	N:43.66551 W:79.40916		
217	302	20	04-Oct-22	8:20am	8:29am	C	Variable	8	8	8	Sussex Ave.	Minor	2	N	Com-Res	N/A	N	N	N	N	N	Y	N	8	5	Curb-Grass Line	1	N		Ave	N:43.66481 W:79.40177		street sweeper next street over
218	303	20	04-Oct-22	8:45am	8:59am	C	Variable	8	8	8	Borden St.	Lane	1	N	Res	N/A	N	N	N	N	N	Y	N	28	13	Hedge-Curb-Grass Line	3	N		Street	N: 43.66146 W:79.40698		litter caught in property line catch points, garbage truck in area could add to litter
219	304	20	04-Oct-22	11:03am	11:14am	C	Variable	8	8	8	Lippincott St.	Lane	1	N	Res-Ind	N/A	N	N	N	N	N	Y	N	28	10	Curb-Tree Line	2	Y	City Street Litter Bin: Divided city bin	Street	N:43.76957 W:79.28236		street sweeper
220	305	20	04-Oct-22	10:30am	10:49am	C	Fixed	18	18	18	Spadina Ave.	Major	4	Y	Com-Res	N/A	Y	Y	N	N	Y	Y	N	12	41	Curb-Fence-Front Porch	2	N		Ave	N: 43.65759 W:79.40006		Burger King, Popeye's, Pizza Nova
221	306	20	03-Oct-22	3:39pm	3:44pm	B	Variable	7.5	12.5	18	Kensington Ave.	Minor	2	N	Com	N/A	N	N	N	Y	N	Y	N	6	5	Curb-Fence	1	N		Ave	N:43.65290 W:79.40008		One lane for parking
222	307	20	03-Oct-22	15:30	15:34	B	Variable	11	13	12	Dundas St. W.	Major	4	Y	Com	N/A	N	N	N	N	N	Y	Y	5	3	Curb-Building-Alleyways	1	N		Street	N:43.652619 W:79.400599		
223	308	20	03-Oct-22	15:53	15:59	B	Variable	9	9.5	18	Hickory St.	Lane	2	Y	Com	N/A	N	N	N	N	N	Y	N	17	3	Curb	2	N		Street	N: 43.65249 W:79.40305		
224	309	20	03-Oct-22	16:03	16:11	B	Variable	18	12.5	18	Dundas St. W.	Major	4	N	Com	N/A	N	N	N	N	Y	Y	Y	12	5	Hedge-Curb	1	N	Big box with 3 waste streams	Street	N:46.650203 W:79.40474		
225	310	20	03-Oct-22	16:44	16:49	B	Fixed	18	18	18	Eden PL	Lane	1	N	Res	N/A	N	N	N	N	N	Y	N	18	6	Fence-Hedge-Curb	2	N		Place	N:43.64907 W:79.40410		
226	311	19	03-Oct-22	4:21pm	4:28pm	B	Variable	15.5	15.5	15.5	Euclid Ave.	Alleyway	1	N	Res	N/A	N	N	N	N	N	N	N	27	4	Fence-Curb	3	N		Ave	N:43.650356 W:79.410013		
227	312	19	04-Oct-22	2:08pm	2:15pm	C	Variable	9	9	9	Mansfield Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	16	13	Curb	2	N		Ave	N:43.65361 W:79.41319		
228	313	19	04-Oct-22	2:31	2:42	C	Variable	7.5	7.5	7.5	Crawford St.	Minor	1	N	Res	N/A	N	N	N	N	N	Y	N	36	16	Curb-Hedge-Wall	1	Y	resident in the area walks around picking up litter	Street	N:43.653767 W:79.418416		litter from Shoppers on the corner blows down street

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed or Variable	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
229	315	19	04-Oct-22	8:45am	8:51am	B	Fixed	18	18	18	Niagara St.	Minor	2	N	Res	3-6"	N	N	N	Y	N	Y	N	7	5	Curb-Grass Line	1	N		Street	N:43.641546 W:79.404511		
230	316	20	04-Oct-22	8:28am	8:33am	B	Fixed	18	18	18	Wellington St. W	Major	4	Y	Com-Res	< 3"	N	Y	N	N	N	Y	N	17	6	Curb-Grass Line	2	N		Street	N:43.64329 W:79.39894		
231	317	20	03-Oct-22	12:00pm	12:08pm	B	Variable	15.5	14.5	14.5	Adelaide St. W	Major	3	Y	Com-Res	N/A	N	N	N	N	N	Y	N	4	9	Curb	1	N		Street	N:43.646033 W:79.397936		
232	318	20	03-Oct-22	11:20am	11:30am	B	Variable	7	6	6	Augusta Ave.	Minor	2	N	Res	N/A	N	N	N	N	N	Y	Y	23	5	Fence-Curb	2	N	City Street Litter Bin: old style (foot pedal) garbage and recycling. Bin is stuffed full	Ave	N:43.648504 W:79.399767	N: 43.6481971 W: 79.399718	
233	320	20	03-Oct-22	2:19pm	2:25pm	B	Variable	8.5	7.5	7.5	Sullivan St.	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	10	1	Fence-Hedge-Curb	1	N		Street	N:43.65150 W:79.39457		Lots of leaves on the ground here
234	321	20	03-Oct-22	1:59pm	2:03pm	B	Variable	18	13	13	Queen St. W.	Major	4	N	Com	N/A	N	N	Y	N	Y	Y	Y	5	13	Curb	1	N	Black medium sized litter box	Street	N:43.65052 W:79.38806		
235	323	20	03-Oct-22	1:16pm	1:26pm	B	Fixed	18	18	18	John St.	Minor	2	N	Com-Res	N/A	N	N	N	N	N	Y	Y	24	10	Curb	1	Y	City worker cleaning with broom and scoop	Street	N:43.644833 W:79.388959		one lane under construction, south st burger
236	324	28	05-Oct-22	4:19pm	4:28pm	C	Fixed	18	18	18	Cooper St.	Minor	2	N	Com-Ind	N/A	N	N	N	N	N	Y	N	2	11	Curb	1	N		Street	N:43.75010 W:79.41284	N: 43.643161 W: 79.371480	parking lot/park replaced with office building/LCBO, curbsides were extended
237	326	27	03-Oct-22	2:00pm	2:09pm	C	Variable	11	11	11	St. Nicholas St.	Minor	2	N	Com-Res	N/A	N	N	N	N	N	Y	N	10	9	Fence-Curb	1	N		Street	N:43.667368 W:79.386529	N: 43.667368 W: -79.386529	Curbside accumulation and leaf litter along fenceline
238	328	27	03-Oct-22	2:18pm	2:31pm	C	Variable	12	12	12	Gloucester St.	Lane	1	N	Res	< 3"	N	Y	N	N	N	Y	N	16	14	Curb-Grass Line	2	N		Street	N:43.667405 W:79.38242	N: 43.667472 W: 79.381128	
239	329	27	03-Oct-22	1:28pm	1:42pm	C	Variable	17	17	17	Grosvenor St.	Minor	2	N	Com-Ind	< 3"	N	N	N	Y	N	Y	N	10	33	Curb-Grass Line	1	N		Street	N:43.66215 W:79.38676		
240	330	28	04-Oct-22	10:22am	10:32am	A	Variable	11.2	10	18	Ontario St.	Minor	2	N	Com-Res	N/A	N	N	N	N	N	Y	N	10	18	Fence-Curb	1	N		Street	N:43.664231 W:79.370696		
241	332	27	04-Oct-22	10:03am	10:13am	A	Fixed	18	18	18	Gerrard St. E.	Major	3	N	Com	3-6"	N	N	N	Y	Y	Y	Y	17	20	Curb	2	N	City Street Litter Bin: Net style garbage, recycling	Street	N:43.661043 W:79.374296		
242	333	28	12-Oct-22	2:12pm	2:16pm	A	Variable	11	10	10	Dundas St. E.	Major	4	N	Com-Res	N/A	N	N	N	Y	N	Y	Y	5	7	Curb-Building	1	N	City Street Litter Bin: Old style (foot pedal missing) garbage + recycling	Street	N:43.658961 W:79.367351		
243	334	28	03-Oct-22	1:10pm	1:25pm	A	Variable	10.5	7.4	8	Richmond St. E.	Major	3	N	Com	N/A	Y	N	N	N	N	Y	N	4	25	Curb	1	N		Street	N:43.653288 W:79.37052		
244	335	28	03-Oct-22	11:50am	11:59am	A	Variable	8.8	10.7	11	Frederick St.	Major	2	N	Res	3-6"	N	N	N	N	N	Y	Y	8	8	Curb-Grass Line-Planter Boxes	1	N	City Street Litter Bin	Street	N:43.649263 W:79.369156		
245	336	28	03-Oct-22	12:04pm	12:14pm	A	Variable	10.5	10.5	10.5	The Esplanade	Minor	1	N	Com	N/A	N	N	N	Y	Y	Y	Y	1	16	Curb	1	N	City Street Litter Only Bin	Esplanade	N:43.649945 W:79.364121		
246	337	41	11-Oct-22	3:14pm	3:22pm	A	Fixed	18	18	18	Midland Ave	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	Y	3	2	Curb	1	N	City Street Litter Bin: old style (foot pedals missing)	Ave	N:43.78881 W:79.27985		
247	338	7	12-Oct-22	10:57am	11:05am	B	Fixed	18	18	18	Benrubin Dr.	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	27	5	Curb-Grass Line	4	N		Drive	N:43.752009 W:79.565628		
248	401	1	12-Oct-22	12:03pm	12:10pm	B	Fixed	18	18	18	Sanagan Rd	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	29	5	Curb-Grass Line	4	N		Road	N:43.738435 W:79.577298		
249	402	1	12-Oct-22	11:32am	11:38am	B	Fixed	18	18	18	Garfella Dr	Minor	2	N	Park	< 3"	N	N	N	N	N	Y	N	12	4	Curb-Grass Line	2	N		Drive	N:43.745327 W:79.593311		
250	403	3	05-Oct-22	1:51pm	1:58pm	B	Fixed	18	18	18	Gentian Dr	Minor	2	N	Res	< 3"	N	N	N	N	N	N	N	10	3	Curb-Gras Line	1	N		Drive	N:43.665151 W:79.583458		
251	405	5	04-Oct-22	12:58pm	1:06pm	B	Fixed	18	18	18	Cochrane Dr	Minor	2	N	Park	< 3"	N	N	N	Y	N	Y	Y	2	2	Curb-Grass Line	1	N	City Street Litter Bin: 2 bins (black - litter only, blue - recycling)	Drive	N: 43.62776 W:79.50756		
252	406	6	04-Oct-22	10:19am	10:23am	B	Variable	5	6.5	6.5	Symons St	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	2	2	Curb-Grass Line	1	Y	evidence that vacuum truck had been by recently (see pic)	Street	N:43.607666 W:79.493473		
253	407	13	05-Oct-22	10:02am	10:11am	B	Variable	18	18	7.5	Langmuir Cres	Minor	2	N	Res-Park	< 3"	N	N	N	Y	N	Y	Y	9	3	Curb-Grass Line	1	N	City Street Litter Bin: Grey, 3 slot divider.	Crescent	N:43.655599 W:79.493872		
254	408	14	07-Oct-22	10:06am	10:12am	C	Variable	16.5	16.5	16.5	Jameson Ave	Major	2	N	Res-Ind	N/A	N	Y	N	Y	N	Y	N	2	29	Curb-Fence	1	N		Ave	N:43.636312 W:79.436354		very windy out. Dirty area of city
255	409	15	06-Oct-22	10:47am	10:58am	B	Fixed	18	18	18	Castlefield Ave	Major	2	N	Com-Park	< 3"	N	N	N	Y	N	Y	Y	65	25	Curb-Grass Line	4	N	City Street Litter Bin	Ave	N:43.696485 W:79.469323		Litter accumulating on storm sewer grate
256	410	16	11-Oct-22	11:58am	12:07pm	B	Variable	18	18	6	Grey Rd	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	5	3	Curb-Hedge_Grass Line	1	N		Road	N:43.728026 W:79.421116		resident says he clears street frequently as office workers often park along here for lunch and toss their lunch garbage
257	411	17	06-Oct-22	3:38pm	3:43pm	C	Variable	7.5	7.5	7.5	Northcliffe Blv	Minor	2	N	Res-Ind	N/A	Y	N	N	N	N	Y	N	9	14	Curb	1	N		Bldv	N:43.679081 W:79.440975		Subway restaurant
258	412	18	04-Oct-22	4:31pm	4:42pm	C	Variable	7.5	7.5	7.5	Dublin St	Minor	2	N	Res-Ind	N/A	N	N	N	N	N	Y	N	23	18	Curb-Hedge	2	N		Street	N:43.654536 W:79.443486	N: 43.654536 W: 79.40722	

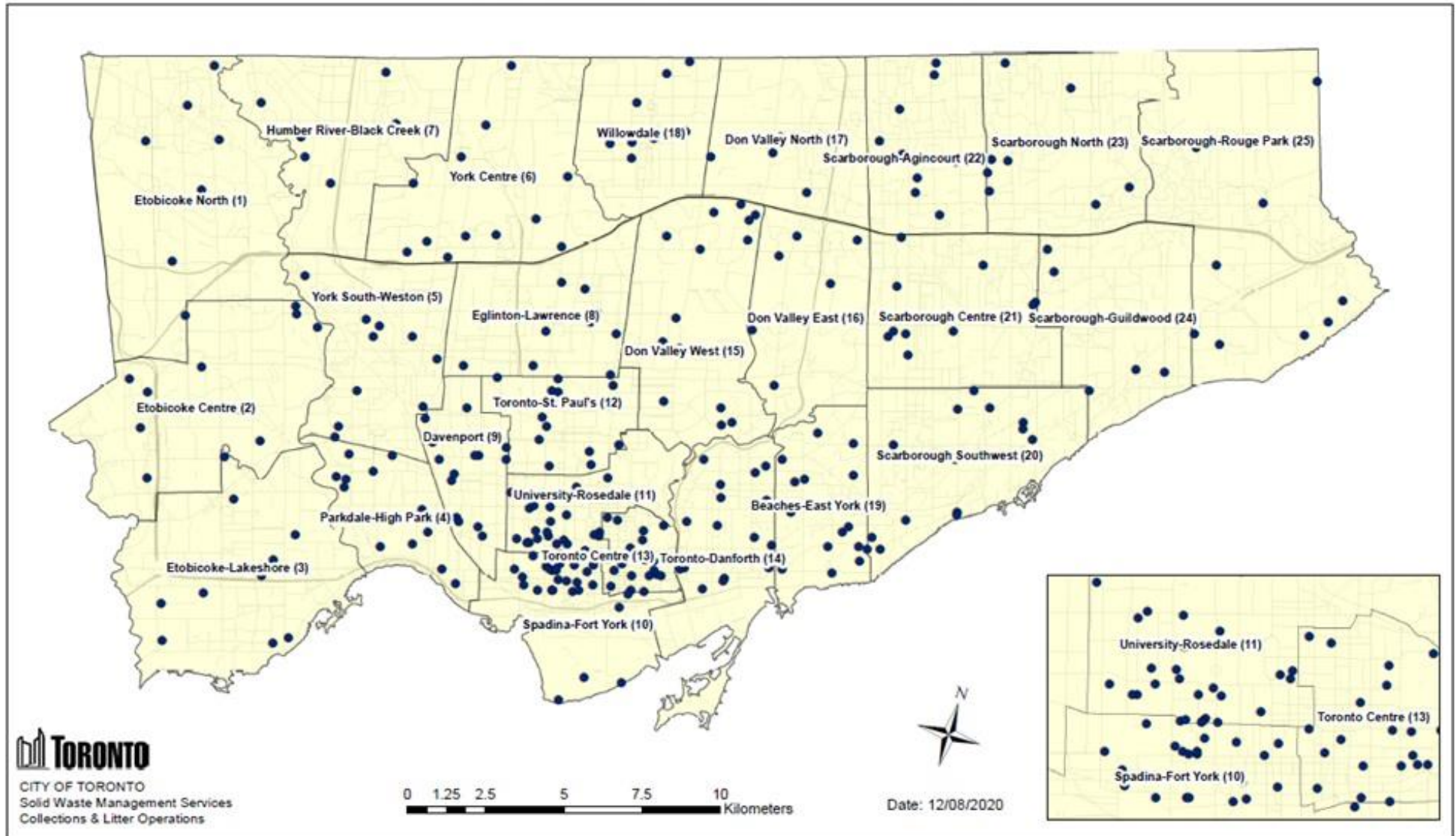
Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed or Variable	Width 1	Width 2	Width 3	Street	St. Type	Lanes	Divided	Area	Grass Ht. (Inches)	Fast Food	Conv Store	Mobile Food	Bench or Resting Structure	Bus Stop	Traffic Light/ Stop sign	Litter Bin	Large Litter Count	Small Litter Count	Catch Pt	Litter Index	Cleanup	Details	Street	Coordinates	Updated Coordinates from Previous Survey	Comments
259	413	20	04-Oct-22	11:38am	11:48am	C	Variable	9	9	9	Lippincott St	Lane	1	N	Res-Ind	N/A	N	N	Y	N	N	Y	Y	13	11	Fence-Curb-Grass Line	2	N	garbage bin outside school	Street	N:43.65843 W:79.40722		
260	414	25	07-Oct-22	11:21am	11:25am	C	Variable	2	2	7	Hopperton Dr	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	1	3	Curb-Grass Line	1	N		Drive	N:43.76461 W:79.37136		
261	415	25	07-Oct-22	10:54am	10:58am	C	Variable	2	2	2	Shouldice Crt	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	1	9	Curb	1	N		Court	N:43.76261 W:79.36517		site is just the curb area
262	416	27	03-Oct-22	1:05pm	1:17am	C	Fixed	18	18	18	Grosvenor St	Major	2	N	Com	< 3"	N	N	N	N	Y	Y	N	0	6	Curb-Grass Line	1	N		Street	N:43.66189 W:79.38929		
263	417	28	03-Oct-22	1:54pm	2:02pm	A	Variable	9	5	10	Sydenham St	Minor	2	N	Res	N/A	N	N	N	N	N	N	N	16	8	Curb-Planter Boxes	2	N		Street	N:49.656917 W:79.362483		
264	418	29	05-Oct-22	11:07am	11:23am	C	Variable	15.5	15.5	15.5	Memorial Park Ave	Minor	2	N	Res-Park	< 3"	N	N	N	Y	N	Y	Y	2	24	Curb-Grass Line-Fence	1	N	Garbage and recycling bins in Dieppe Park	Ave	N:43.69069 W:79.33517		
265	419	30	05-Oct-22	3:20pm	3:26pm	C	Variable	7.5	7.5	7.5	Winnifred Ave	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	10	13	Curb	1	N		Ave	N:43.659511 W:79.335338		
266	420	31	05-Oct-22	8:00am	8:10am	A	Variable	7	6.7	6	Dunkirk Rd	Minor	2	N	Res	< 3"	N	N	N	Y	N	Y	N	6	8	Curb-Hedge-Grass Line-Driveway	1	N		Road	N:43.692795 W:79.31942		
267	421	32	04-Oct-22	2:13pm	2:20pm	A	Variable	7	7.5	7	Rhodes Ave	Minor	2	N	Res	> 6"	N	N	N	Y	N	Y	N	11	3	Curb-Grass Line	1	N		Ave	N:43.673474 W:79.32121		
268	422	34	07-Oct-22	1:29pm	1:38pm	C	Variable	12	12	12	Upjohn Rd.	Minor	2	N	Com	< 3"	N	N	N	N	N	Y	N	9	12	Curb-Grass Line	1	N		Road	N:43.75373 W:79.35041		
269	423	36	05-Oct-22	2:15pm	2:20pm	A	Variable	6.5	2.4	2.4	Kenny Ave	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	0	4	Curb	1	N		Ave	N:43.69139 W:79.27254		
270	424	37	06-Oct-22	10:55am	11:04am	A	Variable	10.5	11.3	11.6	Minford Ave	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	9	4	Curb	1	N		Ave	N:43.73706 W:79.29118		
271	425	38	07-Oct-22	8:03am	8:12am	A	Variable	17	17	18	Kencliff Cres	Major	2	N	Res	3-6"	N	N	N	N	N	Y	N	12	20	Curb-Grass Line	1	N		Crescent	N:43.76190 W:79.24863		starting point of site has many cigarette butts. Resident at this address likely smokes here and tosses them in the same spot
272	426	39	12-Oct-22	10:55am	11:04am	A	Fixed	18	18	18	Glen Springs Dr	Minor	2	N	Res	3-6"	N	N	N	Y	N	N	N	3	9	Curb	1	N		Drive	N:43.80394 W:79.32220		
273	500	3	05-Oct-22	2:04pm	2:17pm	B	Variable	15	15	15	Lloyd Manor	Major	2	N	Res	< 3"	N	Y	N	N	N	Y	Y	64	7	Curb-Grass Line	4	N	City Street Litter Bin: Grey (3-way divider). Curb close to Metro's parking lot	Road	N:43.674568 W:79.557729		
274	501	36	05-Oct-22	1:35pm	1:44pm	A	Variable	6	6	6	Winston	Minor	2	N	Res	< 3"	N	N	N	Y	N	Y	N	5	3	Curb	1	N		Ave	N:43.68419 W:79.28351		
275	502	36	05-Oct-22	1:54pm	2:00pm	A	Variable	6	6	6	Fallingbrook	Minor	2	N	Res	3-6"	N	N	N	Y	N	Y	N	5	12	Curb	1	N		Road	N:43.68148 W:79.27905		
276	503	10	07-Oct-22	10:14am	10:24am	B	Variable	9	9	2	Charleswood	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	35	9	Curb-Grass Line-Tree Line	4	N		Drive	N:43.737921 W:79.435167		
277	504	35	05-Oct-22	3:24pm	3:33pm	A	Variable	11	10	9	St Clair E	Major	4	N	Res	3-6"	N	N	N	N	N	Y	N	13	21	Curb	2	N		Ave	N:43.71101 W:79.28610		
278	505	40	12-Oct-22	12:10pm	12:16pm	A	Fixed	18	18	18	Bridletowne	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	0	10	Curb	1	N		Circle	N:43.79218 W:79.31615		
279	506	9	07-Oct-22	11:21am	11:27am	B	Fixed	18	18	18	Victory	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	4	0	Curb-Fence	1	N		Drive	N:43.727875 W:79.48678	N: 43.727875 W: 79.31615	
280	507	13	05-Oct-22	9:20am	9:37am	B	Variable	6	6	6	Humberview	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	29	9	Grass Line-Tree Line	4	N		Road	N:43.653491 W:79.489788		
281	508	41	11-Oct-22	2:35pm	2:43pm	A	Fixed	18	18	18	Mollard	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	9	7	Curb	1	N		Road	N:43.79853 W:79.27557		
282	509	17	06-Oct-22	10:01am	10:11am	B	Variable	10.5	7.5	7.5	Algarve	Minor	2	N	Res-Park	< 3"	N	N	N	Y	N	Y	N	31	9	Curb-Hedge	3	N		Crescent	N:43.67965 W:79.46625		
283	510	32	05-Oct-22	11:53am	12:00pm	A	Variable	6	7	6.5	Scarborough	Minor	2	N	Res	3-6"	N	N	N	Y	N	Y	N	0	4	Curb	1	N		Road	N:43.67685 W:79.28556		
284	511	21	07-Oct-22	8:42am	8:50am	C	Variable	16.5	16.5	16.5	Heathdale	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	3	2	Curb-Grass Line	1	N		Road	N:43.689387 W:79.422633		no evidence of clean up but site is very clean
285	512	16	11-Oct-22	11:13am	11:20am	B	Variable	8	9	8	Duplex	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	13	0	Curb	1	N		Ave	N:43.718363 W:79.404221		
286	513	44	07-Oct-22	9:26am	9:37am	A	Fixed	18	18	18	Ling	Minor	2	N	Res-Park	< 3"	N	N	N	N	N	Y	N	17	20	Curb-Grass Line	3	N		Road	N:43.76678 W:79.18445		
287	514	22	06-Oct-22	9:49am	9:58am	C	Variable	18	16	16	Avenue	Major	6	N	Res	N/A	N	N	N	N	Y	Y	N	10	11	Curb-Tree Line	1	N		Road	N:43.680351 W:79.398771	N: 43.6709307 W: 79.3951417	
288	515	7	12-Oct-22	10:15am	10:21am	B	Fixed	18	18	18	Sheppard W	Major	4	Y	Com	N/A	N	N	N	N	Y	Y	N	39	11	Curb	4	N		Ave	N:43.735869 W:79.530029		
289	516	40	12-Oct-22	11:51am	11:58am	A	Fixed	18	18	18	Corinthian	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	14	3	Curb-Fence	2	N		Bldv	N:43.79263 W:79.32602		
290	517	6	04-Oct-22	10:49am	10:59am	B	Variable	11.5	11.5	11.5	Murrie	Minor	2	N	Res	< 3"	N	N	N	N	N	N	N	1	4	Curb-Grass Line	1	N		Street	N:43.604635 W:79.498672		
291	518	31	05-Oct-22	8:38am	8:45am	A	Variable	6	6	6	Machokie	Minor	2	N	Res	3-6"	N	N	N	Y	N	N	N	6	21	Curb-Grass Line	1	N		Road	N:43.68052 W:79.28799	N: 43.698831 W: 79.327701	

Site #	Site Id	Ward	Date	Start	Finish	Team	Fixed or Variable	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
292	519	3	05-Oct-22	1:37pm	1:46pm	B	Fixed	18	18	18	Eringate	Minor	2	N	Res	3-6"	N	N	N	N	N	Y	N	20	6	Curb-Fence-Hedge-Grass Line	3	N		Drive	N:43.66283 W:79.57479	N: 43.662936 W: 79.57502	
293	520	3	04-Oct-22	1:54pm	2:04pm	B	Fixed	18	18	18	The West Mall	Major	4	Y	Park	< 3"	N	N	N	Y	Y	Y	Y	21	18	Curb-Grass Line	4	N	City Street Litter Bin: Grey (3-way divider). Playground grass area/park adjacent to site	Road	N:43.639401 W:79.565374		
294	521	20	06-Oct-22	9:15am	9:29am	C	Variable	7	7	7	Bernard	Minor	2	N	Res	N/A	N	N	N	N	N	Y	N	14	11	Curb	1	N		Ave	N:43.672889 W:79.401604		
295	522	21	06-Oct-22	10:41am	10:52am	C	Variable	8	8	8	Davenport	Major	3	N	Res	N/A	N	N	N	N	Y	Y	Y	24	22	Curb	2	N	Litter Bin beside bus stop	Road	N:43.676534 W:79.414497		
296	523	13	05-Oct-22	10:17am	10:25am	B	Variable	7	7	7	Watson	Minor	2	N	Res	< 3"	N	N	N	N	N	Y	N	4	2	Curb-Hedge-Grass Line	1	N		Road	N:43.66321 W:79.49155		
297	524	15	06-Oct-22	10:18am	10:32am	B	Variable	10	10	10	Rogers	Major	4	N	Com-Res	N/A	N	Y	N	N	N	Y	Y	28	12	Curb-Hedge	3	N	City Street Litter Bin: Grey 2 slot divider.	Road	N:43.68222 W:79.46942		
298	525	27	05-Oct-22	2:50pm	2:55pm	A	Variable	4	4	4	Davidson	Minor	2	N	Res	3-6"	N	Y	N	Y	N	Y	N	1	4	Curb-Grass Line	1	N		Ave	N:46.71215 W:79.26073		
299	601	21	05-Oct-22	11:25am	11:32am	B	Variable	7	7	7	Foxwell	Minor	2	N	Res	< 3"	N	N	N	Y	Y	Y	Y	7	2	Curb-Hedge-Grass Line	2	N	City Street Litter Bin: Grey (2-slot divider)	Street	N:43.66997 W:79.49881		
300	602	20	03-Oct-22	9:20am	9:56am	A	Fixed	18	18	18	Bond St.	Minor	2	N	Com	< 3"	Y	N	N	N	N	Y	Y	54	111	Fence-Curb	4	N	City Street Litter Bin: Grey (2-slot divider)	Street	N:43.65404 W:79.37737		

APPENDIX B
SITE DISTRIBUTION MAP
AND TOP LITTER HOTSPOTS



2022 Street 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 1 below depicting the audit site setup.

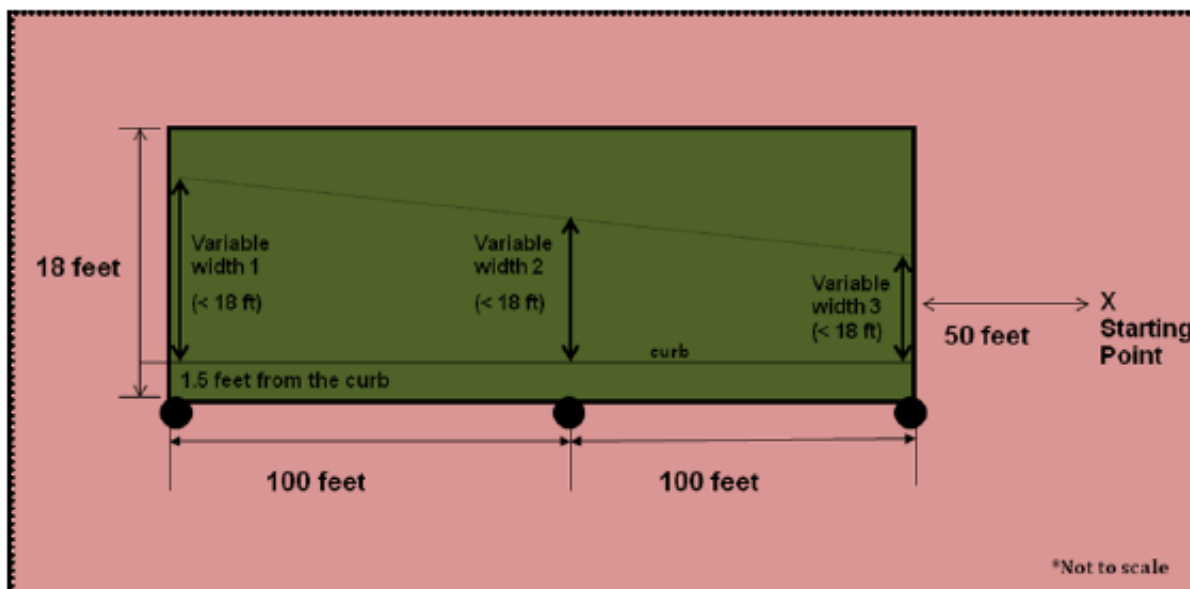


Figure 1: Schematic of Survey Site

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 2 depicting diagrams of the litter templates.

At each site location this litter audit will observe and document large litter in 14 sub-categories and 95 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.

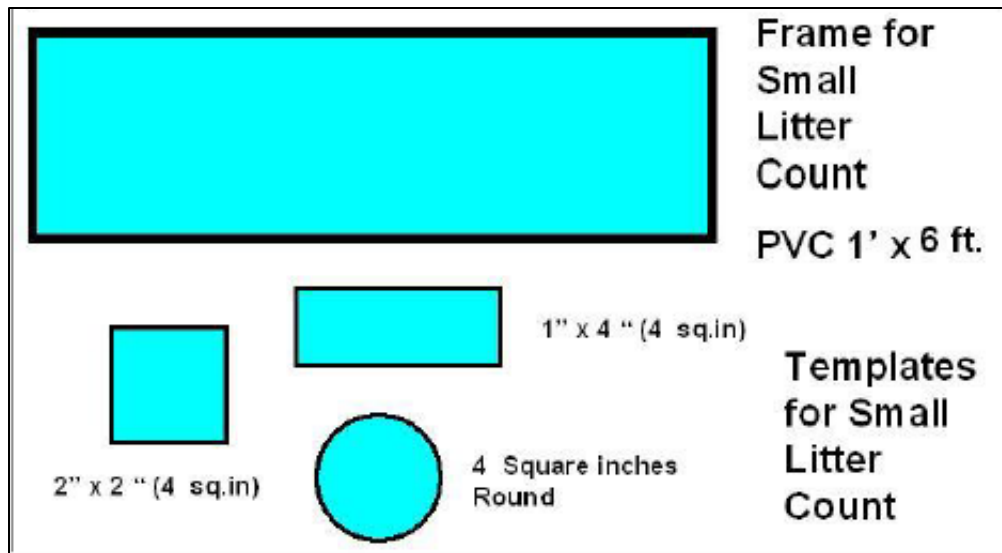


Figure 2: Litter Template

Large Litter Categories

No	CATEGORY	Sub-Category	Material	Description
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 Top)	Beverage	Paper	Milk/juice in gable top cartons
15	Foil Pouches	Other Pckg.	Composite	Packaged goods and pieces of foil pckg
16	Aseptic (Box)	Other Pckg.	Paper	Drink-in-box, juice, fluids, other
17	Broken Glass Container	Other Pckg.	Glass	Glass bottle fragments

18	Six Pack Plastic Rings	Other Pckg.	Plastic	Retainer plastic for carrying cans
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
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
31	Cardboard Boxes & Material	Other Pckg.	Paper	All cardboard and box materials
32	Paperboard (Cereal Type)	Other Pckg.	Paper	Cereal, shoe boxes and pieces etc.
33	Paper Beverage Cases	Other Pckg.	Paper	Paper material outer packaging for beverage products
34	Polystyrene Clamshells	Other Pckg.	Plastic	Whole and pieces of expanded foam containers
35	Paper Clamshells	Other Pckg.	Paper	Whole and pieces of take-away or other paper containers
36	Other Plastic Shells/Boxes	Other Pckg.	Plastic	PET, PVC, HDPE, other material shells
37	Plastic Jars / Bottles/ Lids	Other Cntrs.	Plastic	Non-beverage plastic jars/bottles, (e.g., detergent bottles)
38	Glass Jars/ Bottles Misc.	Other Cntrs.	Glass	Glass jars/bottles not described above
39	Cans - Steel	Other Cntrs.	Metal	Steel food/non-food containers
40	Cans - Aluminum	Other Cntrs.	Metal	Aluminum food/non-food containers
41	Container Lids	Other Cntrs.	Metal	All lids, closures, and pieces > 4 sq. in.
42	Aerosol Cans (Paint, Oils, Etc.)	Other Cntrs.	Metal	Aerosol cans, tops, lids - all products
43	Paper Food Wrap	Food Wraps	Paper	Commercial/Non-commercial food wrap (e.g., meat wrap)
44	Paper / Foil Composite Wrap	Food Wraps	Various	Wrap for food/non-food (e.g., hamburger paper/foil)
45	Plastic Wrap	Food Wraps	Plastic	All plastic wrap types, food, non-food

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	Various	Take-out/non-take out, microwavable, display trays
49	Gum Wrappers	Confectionary/Snack	Paper	Packaging used to seal, sell gum products
50	Candy Bar Wraps	Confectionary/Snack	Composite	Packaging used to seal, sell candy products
51	Candy Pouches	Confectionary/Snack	Composite	Packaging used to seal, sell candy products
52	Sweet Packaging (Describe)	Confectionary/Snack	Various	Packaging used to seal confections (e.g., cakes)
53	Other confectionery (describe)	Confectionary/Snack	Various	All other packaging for confectionaries
54	Condiment Package (Salt, Etc.)	Take-Out Extras	Various	Pouches (e.g., ketchup, salt), containers, creamers
55	Plastic Eating Utensils		Plastic	Forks, Knives, Chop Sticks, Spoons, Straws etc.
55a	Chop sticks	Take-Out Extras	Plastic	#N/A
55b	Forks	Take-Out Extras	Plastic	#N/A
55c	Knives	Take-Out Extras	Plastic	#N/A
55d	Spoons	Take-Out Extras	Plastic	#N/A
55e	Straws	Take-Out Extras	Plastic	#N/A
55f	Other	Take-Out Extras	Plastic	#N/A
56	Name Brand (Fast Food etc.) Towels / Napkins / Serviettes	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	Various	Plates - not fast food (e.g., picnic plates)
61	Clothing Or Clothing Pieces	Cloth	Textiles	All cloth, clothing pieces, and clothing discarded on site
62	Other Cloth	Cloth	Textiles	Tarps, industrial fabrics etc.
63	Snack Food Packaging	Confectionary/Snack	Various	All snack food (e.g., chips)
64	Plastic Packaging - Other	Other Pckg.	Plastic	Plastic packaging otherwise not described
65	Paper Packaging - Other	Paper/Fibre Material	Paper	Paper packaging otherwise not described
66	Plastic/Composite - Other	Other Misc.	Various	All paper and composite debris not previously described

67	Foil Materials/Foil Pieces	Other Misc.	Various	Foils and pieces, aluminum food foils, industrial foils
68	No Brand Name Towels / Napkins / Serviettes	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
73	Cigarette / Cigar Debris (>4")	Tobacco	Various	Tobacco items
74	Tobacco Pckg (Packs, Matches, Etc.)	Tobacco	Various	Tobacco packaging, matches, lighters, matchboxes
75	Foil Containers	Other Pckg.	Metal	Foil wraps (e.g., ice cream)
76	Misc. Paper	Other Misc.	Paper	All other paper whole or shredded, unidentifiable
77	Misc. Plastic	Other Misc.	Plastic	All other plastic whole or shredded, unidentifiable
78	Misc. Paperboard	Other Misc.	Paper	All other paperboard whole or shredded, unidentifiable
79	Misc. Cardboard	Other Misc.	Paper	All other cardboard whole or shredded, unidentifiable
80	Misc. Glass	Other Misc.	Glass	All other glass, whole or broken, unidentifiable
81	Vehicle & Metal Road Debris	Other Misc.	Various	Debris associated with transportation
82	Construction Debris	Other Misc.	Various	Debris associated with construction
83	Tire & Rubber Debris	Other Misc.	Various	Rubber sheets/pieces, tire pieces, shock absorbers
84	Home Articles	Other Misc.	Various	All non-described household items, (e.g., lamps, etc.)
85	Food & Other Organics	Other Misc.	Organics	
86	e-Waste (cables, USB keys, ear buds, batteries etc.	Other Misc.	Electronics	
87	Popsicle Sticks	Other Misc.	Various	
88	Face Masks	Other Misc.	Various	Nylon, cloth, various fabrics, plastic, etc
89	Disposable Gloves	Other Misc.	Various	Latex, rubber, plastic, etc
90	Other Materials	Other Misc.	Various	To be determined

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 24 categories, as listed 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 3 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

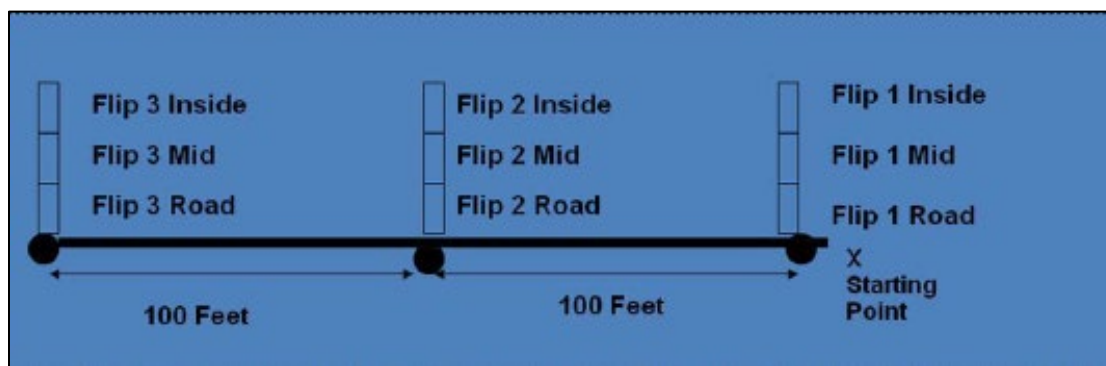


Figure 3: Site Set up Small Litter

Small Litter Categories

- | | |
|--|--|
| 1. Cigarette butts/debris | 8. Glass |
| 2. Other tobacco | 9. Paper |
| 3. Bottle caps | 10. Plastic Film |
| 4. Plastic Eating Utensils | 11. Hard plastic |
| a. Forks | 12. Aluminum/foil debris |
| b. Knives | 13. Rubber |
| c. Spoons | 14. Metal (not aluminum) |
| d. Chop Sticks | 15. Other material |
| e. Straws | 16. Chewing gum (stuck on pavement) |
| f. Other | 17. Food & Other Organics |
| 5. Candy packaging and wrappers | 18. Face Masks |
| 6. Polystyrene packing materials, ie. Foam peanuts | 19. E-waste (cables, usb keys, earbuds, etc) |
| 7. Other polystyrene debris, ie. Poly foam pieces | |

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 #: _____ 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.)

GPS Coordinates: (example: N: 43.758572, W: 79.58778)

N:

W:

Updated GPS coordinates only required if site is moved

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 Number: _____

Site ID: _____

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													
Plastic Eating Utensils	4													
Forks	4													
Knives	4													
Spoons	4													
Chop Sticks	4													
Straws	4													
Other	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 (without packaging)	17													
Face Masks	18													
E-waste (cables, usb keys, earbuds, etc)	19													

*closest to vehicle/starting point

Large Items and Branded Litter Count Form

No	CATEGORY	Pass 1	Total	Pass 2	Total	BRAND NAMES OBSERVED	Compostable/ Biodegradable Item Count
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 & Material						
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 - Aluminum						
41	Container Lids						
42	Aerosol Cans (Paint, Oils, Etc.)						
43	Paper Food Wrap						
44	Paper / Foil Composite Wrap						
45	Plastic Wrap						
46	Polystyrene Trays						
47	Paper Trays						
48	Other Material Trays						
49	Gum Wrappers						
50	Candy Bar Wraps						
51	Candy Pouches						
52	Sweet Packaging (Describe)						

Site #: _____ Site ID Number: _____

Date: _____

No	CATEGORY	Pass 1	Total	Pass 2	Total	BRAND NAMES OBSERVED	Compostable/ Biodegradable Item Count
53	Other confectionary (describe)						
54	Condiment Package (salt, Etc.)						
55	Plastic Eating Utensils						
55a	Chop Sticks						
55b	Forks						
55c	Knives						
55d	Spoons						
55e	Straws						
55f	Other						
56	Name Brand (Fast Food, etc.) Towels/Napkins, Serviettes						
57	Paper Fast Food Plates						
58	Poly Fast Food Plates						
59	Other Plastic Fast Food 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	Printer Material (Newspapers, Etc.)						
71	Stationary (School, Business, Etc.)						
72	Receipts (Business, Transfers, Etc.)						
73	Cigarette/Cigar Debris (>4)						
74	Tobacco Pckg (Packs, Matches, Etc.)						
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	e-Waste (Cables, USB keys, ear buds, batteries, etc.)						
87	Popsicle Sticks						
88	Face Masks						
89	Disposable Gloves						
90	Other Materials						

APPENDIX E

LARGE LITTER DATA



#	Large Litter Items	2022 Count	2022 %
1	No Brand Name Towels / Napkins / Serviettes	407	10.5%
2	Misc. Paper	330	8.5%
3	Plastic Packaging Other	315	8.1%
4	Cup Lids, Pieces Lids, Straws	213	5.5%
5	Receipts (business forms, bus transfers, etc)	174	4.5%
6	Misc. Plastic	166	4.3%
7	Face Masks	119	3.1%
8	Paper Packaging Other	109	2.8%
9	Tobacco Other (packs, matches, cellophane)	104	2.7%
10	Water (Plastic)	97	2.5%
11	Paper Cups (Hot)	90	2.3%
12	Plastic Wrap	87	2.2%
13	Food / Other Organics	81	2.1%
14	Paperboard (Cereal Type)	69	1.8%
15	Soft Drink (Cans)	68	1.7%
16	Printed Material (newspapers, flyers, books etc.)	68	1.7%
17	Candy Bar Wraps	67	1.7%
18	Other Materials	63	1.6%
19	Straws	57	1.5%
20	Snack Food Packaging	55	1.4%
21	Home Articles	50	1.3%
22	Plastic Drink Cups	49	1.3%
23	Plastic Bags - Not Retail	49	1.3%
24	Condiment Package (salt, ketchup, vinegar, etc.)	48	1.2%
25	Cardboard Boxes/ Box Material	47	1.2%
26	Paper / Foil Composite Wrap	46	1.2%
27	Vehicle & Metal Road Debris	45	1.2%
28	Construction Debris	45	1.2%
29	Other Cloth	43	1.1%
30	Paper Food Wrap	38	1.0%
31	Foil Materials/Foil Pieces	37	1.0%
32	Stationary (school, bus, etc.)	36	0.9%
33	Clothing Or Clothing Pieces	32	0.8%
34	Sweet Packaging (Describe)	30	0.8%
35	Gum Wrappers	29	0.7%
36	Other Confectionery (Describe)	27	0.7%
37	Zipper Bags/ Sandwich	22	0.6%
38	Plastic Jars / Bottles / Lids	22	0.6%
39	Misc. Paperboard	22	0.6%
40	Other Plastic Shells/Boxes	21	0.5%
41	Tire & Rubber Debris	21	0.5%
42	Plastic Retail Bags	20	0.5%
43	Polystyrene Trays	20	0.5%
44	Candy Pouches	20	0.5%
45	Spoons	20	0.5%
46	Forks	19	0.5%
47	Disposable Gloves	19	0.5%
48	Beer Cans	17	0.4%
49	Lottery ticket debris	17	0.4%
50	Misc. Cardboard	17	0.4%

#	Large Litter Items	2022 Count	2022 %
51	Aseptic (Box)	16	0.4%
52	Paper Bags - Fast Food	16	0.4%
53	e-Waste (cables, USB keys, ear buds, batteries etc.	16	0.4%
54	Popsicle Sticks	15	0.4%
55	Paper Cups (Cold)	14	0.4%
56	Milk/Juice (Plastic)	11	0.3%
57	Soft Drink (Plastic)	10	0.3%
58	Paper Bags - Not Retail	10	0.3%
59	Sport Drink (Plastic)	9	0.2%
60	Polystyrene Clamshells	9	0.2%
61	Broken Glass Container	8	0.2%
62	Polystyrene Cups (Foam)	8	0.2%
63	Paper Fast Food Plates	7	0.2%
64	Milk/Juice (Gable Top)	5	0.1%
65	Paper Retail Bags	5	0.1%
66	Cans - aluminum (not beverage)	5	0.1%
67	Other plastic FF plates	5	0.1%
68	Paper Clamshells	4	0.1%
69	Cans - steel	4	0.1%
70	Foil Pouches	3	0.1%
71	Paper Beverage Cases	3	0.1%
72	Aerosol cans (paint, oils, etc.)	3	0.1%
73	Paper Trays	3	0.1%
74	Plastic / composite other	3	0.1%
75	Cigarette / Cigar Debris (>4")	3	0.1%
76	Foil Containers	3	0.1%
77	Wine/ Liquor (Plastic/Other)	2	0.1%
78	Milk/Juice (Glass)	2	0.1%
79	Six Pack Plastic Rings	2	0.1%
80	Glass jars / bottles misc.	2	0.1%
81	Container Lids	2	0.1%
82	Other Mat'l Trays	2	0.1%
83	Name Brand FF Towels/Napkins	2	0.1%
84	Soft Drink (Glass)	1	0.0%
85	Wine/ Liquor (Glass)	1	0.0%
86	Other Paper Cups	1	0.0%
87	Chop sticks	1	0.0%
88	Knives	1	0.0%
89	Other	1	0.0%
90	Poly Fast Food Plates	1	0.0%
91	Plates - Other Mat'l	1	0.0%
92	Beer Bottles (Glass)	0	0.0%
93	Sport Drink (Glass)	0	0.0%
94	Water (Glass)	0	0.0%
95	Utensils	0	0.0%
96	Misc. Glass	0	0.0%
Total Top 20		2,739	70.5%
Total - All Large Litter		3,887	100.0%

Large Litter	Tor-22	Tor-20	Tor-16	Tor-14	Tor-12	Tor-06	Tor-04	Tor-02
Aerosol cans (paint, oils, etc.)	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%
Aseptic (Box)	0.4%	0.4%	0.7%	0.2%	0.4%	0.3%	0.5%	0.5%
Beer Bottles (Glass)	0.0%	0.1%	0.1%	0.0%	0.1%	0.1%	0.2%	0.1%
Beer Cans	0.4%	0.4%	0.2%	0.1%	0.2%	0.1%	0.0%	0.2%
Broken Glass Container	0.2%	0.1%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%
Candy Bar Wraps	1.7%	1.0%	0.7%	1.1%	2.3%	3.2%	2.9%	3.0%
Candy Pouches	0.5%	0.8%	0.3%	0.7%	0.5%	0.4%	2.2%	1.1%
Cans - aluminum (not beverage)	0.1%	0.2%	0.0%	0.0%	0.5%	0.1%	0.1%	0.2%
Cans - steel	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.1%	0.0%
Cardboard Boxes/ Box Material	1.2%	0.8%	0.6%	0.5%	0.5%	0.8%	0.1%	0.4%
Cigarette / Cigar Debris (>4")	0.1%	0.0%	0.0%	0.1%	0.6%	2.2%	0.2%	1.2%
Clothing Or Clothing Pieces	0.8%	1.1%	0.8%	0.7%	0.4%	0.7%	0.4%	0.2%
Condiment Package (salt, ketchup, vinegar, etc.)	1.2%	0.7%	0.9%	0.5%	0.5%	0.3%	1.4%	1.0%
Construction Debris	1.2%	3.4%	2.1%	2.5%	1.3%	4.1%	0.6%	3.1%
Container Lids	0.1%	0.0%	0.2%	0.1%	0.1%	0.2%	0.1%	0.4%
Cup Lids, Pieces Lids, Straws	5.5%	4.5%	6.4%	5.4%	8.5%	2.1%	3.2%	2.7%
Disposable Gloves	0.5%	1.1%	n/a	n/a	n/a	n/a	n/a	n/a
e-Waste (cables, USB keys, ear buds, batteries etc.)	0.4%	0.4%	n/a	n/a	n/a	n/a	n/a	n/a
Face Masks	3.1%	2.5%	n/a	n/a	n/a	n/a	n/a	n/a
Foil Containers	0.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.1%	0.1%
Foil Materials/Foil Pieces	1.0%	0.7%	1.0%	0.7%	1.6%	0.8%	1.9%	4.5%
Foil Pouches	0.1%	0.0%	0.1%	0.2%	0.1%	0.1%	0.1%	0.0%
Food / Other Organics	2.1%	3.5%	2.1%	3.7%	n/a	n/a	n/a	n/a
Glass jars / bottles misc.	0.1%	0.0%	0.1%	0.1%	0.1%	0.0%	0.1%	0.0%
Gum Wrappers	0.7%	0.7%	0.6%	1.2%	0.8%	1.5%	2.6%	2.0%
Home Articles	1.3%	1.8%	1.3%	1.5%	2.9%	1.5%	3.5%	0.0%
Lottery ticket debris	0.4%	0.6%	0.2%	0.4%	0.7%	0.3%	0.7%	0.4%
Milk/Juice (Gable Top)	0.1%	0.0%	0.1%	0.1%	0.1%	0.3%	0.2%	0.1%
Milk/Juice (Glass)	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%	0.1%	0.0%
Milk/Juice (Plastic)	0.3%	0.5%	0.3%	0.6%	0.5%	0.1%	0.1%	0.1%
Misc. Cardboard	0.4%	0.2%	0.2%	0.0%	0.4%	0.6%	0.8%	21.2%
Misc. Glass	0.0%	0.4%	0.7%	0.1%	0.2%	0.6%	0.1%	1.2%
Misc. Paper	8.5%	1.8%	2.9%	3.1%	21.5%	18.6%	14.8%	0.0%
Misc. Paperboard	0.6%	0.8%	0.4%	0.1%	1.0%	1.1%	0.5%	0.0%
Misc. Plastic	4.3%	4.4%	4.9%	8.0%	11.7%	10.9%	5.0%	3.7%
Name Brand FF Towels/Napkins	0.1%	0.4%	0.6%	0.2%	0.3%	0.5%	0.3%	0.4%
No Brand Name Towels / Napkins / Serviettes	10.5%	9.5%	14.9%	14.0%	6.5%	10.6%	10.1%	8.8%
Other Cloth	1.1%	1.4%	0.7%	0.9%	0.8%	1.0%	0.7%	0.5%
Other Confectionery (Describe)	0.7%	0.1%	0.3%	0.1%	0.7%	0.3%	0.2%	1.8%
Other Materials	1.6%	3.5%	2.5%	0.1%	n/a	n/a	n/a	n/a
Other Mat'l Trays	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%
Other Paper Cups	0.0%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%
Other plastic FF plates	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other Plastic Shells/Boxes	0.5%	0.6%	0.0%	0.2%	0.6%	0.2%	0.1%	0.2%
Paper / Foil Composite Wrap	1.2%	0.3%	0.8%	0.8%	0.3%	1.5%	0.3%	0.4%
Paper Bags - Fast Food	0.4%	1.3%	1.1%	0.9%	0.5%	0.9%	0.4%	0.5%
Paper Bags - Not Retail	0.3%	0.1%	0.2%	0.3%	0.1%	0.4%	0.3%	0.4%
Paper Beverage Cases	0.1%	0.1%	0.3%	0.2%	0.1%	0.0%	0.0%	0.0%
Paper Clamshells	0.1%	0.3%	0.2%	0.0%	0.0%	0.1%	0.1%	0.0%
Paper Cups (Cold)	0.4%	0.7%	0.5%	0.8%	1.3%	0.8%	0.7%	0.5%
Paper Cups (Hot)	2.3%	2.1%	2.3%	2.8%	1.7%	2.6%	2.0%	1.4%
Paper Fast Food Plates	0.2%	0.1%	0.1%	0.0%	0.2%	0.0%	0.1%	0.0%
Paper Food Wrap	1.0%	1.0%	0.8%	1.2%	1.0%	0.3%	0.5%	0.6%
Paper Packaging Other	2.8%	1.5%	1.7%	1.0%	0.8%	0.3%	0.5%	1.0%
Paper Retail Bags	0.1%	0.4%	0.2%	0.2%	0.2%	0.1%	0.2%	0.1%
Paper Trays	0.1%	0.2%	0.0%	0.2%	0.0%	0.0%	0.1%	0.0%
Paperboard (Cereal Type)	1.8%	1.4%	1.7%	1.6%	0.8%	1.2%	0.3%	0.2%
Plastic / composite other	0.1%	0.5%	0.1%	0.1%	0.2%	0.3%	0.5%	3.3%
Plastic Bags - Not Retail	1.3%	0.6%	1.7%	0.8%	0.9%	1.5%	1.8%	1.0%
Plastic Drink Cups	1.3%	1.7%	1.1%	0.8%	1.3%	0.7%	0.9%	0.2%
Plastic Eating Utensils								

Large Litter	Tor-22	Tor-20	Tor-16	Tor-14	Tor-12	Tor-06	Tor-04	Tor-02
Chop sticks	0.0%	0.1%	n/a	n/a	n/a	n/a	n/a	n/a
Forks	0.5%	0.5%	n/a	n/a	n/a	n/a	n/a	n/a
Knives	0.0%	0.2%	n/a	n/a	n/a	n/a	n/a	n/a
Spoons	0.5%	0.5%	n/a	n/a	n/a	n/a	n/a	n/a
Straws	1.5%	3.6%	n/a	n/a	n/a	n/a	n/a	n/a
Other	0.0%	0.1%	n/a	n/a	n/a	n/a	n/a	n/a
Plastic Jars / Bottles / Lids	0.6%	0.4%	0.6%	0.3%	0.3%	0.1%	0.7%	1.0%
Plastic Packaging Other	8.1%	3.5%	6.1%	1.4%	2.7%	0.8%	2.4%	5.6%
Plastic Retail Bags	0.5%	1.2%	0.7%	0.7%	0.8%	0.1%	0.2%	0.6%
Plastic Wrap	2.2%	2.6%	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%	0.0%	0.0%
Poly Fast Food Plates	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1%	0.0%
Polystyrene Clamshells	0.2%	0.2%	0.3%	0.3%	0.2%	0.0%	0.1%	0.7%
Polystyrene Cups (Foam)	0.2%	0.4%	0.4%	0.6%	0.8%	0.9%	0.6%	0.8%
Polystyrene Trays	0.5%	0.0%	0.4%	0.1%	0.1%	0.1%	0.1%	0.0%
Popsicle Sticks	0.4%	0.1%	0.5%	0.1%	n/a	n/a	n/a	n/a
Printed Material (newspapers, flyers, books etc.)	1.7%	3.9%	5.6%	5.3%	1.4%	4.8%	7.7%	9.4%
Receipts (business forms, bus transfers, etc)	4.5%	3.8%	6.2%	6.4%	2.6%	4.4%	6.0%	1.1%
Six Pack Plastic Rings	0.1%	0.0%	0.0%	0.1%	0.1%	0.1%	0.0%	0.0%
Snack Food Packaging	1.4%	1.8%	2.6%	1.5%	1.2%	0.3%	0.6%	0.3%
Soft Drink (Cans)	1.7%	1.7%	1.5%	1.4%	1.4%	2.9%	2.3%	2.4%
Soft Drink (Glass)	0.0%	0.1%	0.1%	0.1%	0.1%	0.2%	0.0%	0.0%
Soft Drink (Plastic)	0.3%	0.7%	0.5%	0.4%	0.8%	1.0%	0.2%	0.4%
Sport Drink (Glass)	0.0%	0.0%	0.1%	0.0%	0.0%	0.1%	0.0%	0.1%
Sport Drink (Plastic)	0.2%	0.3%	0.2%	0.2%	0.2%	0.3%	0.1%	0.1%
Stationary (school, bus, etc.)	0.9%	1.3%	0.7%	2.5%	0.4%	0.1%	0.7%	1.6%
Sweet Packaging (Describe)	0.8%	0.4%	0.8%	1.4%	0.9%	1.1%	1.4%	0.6%
Tire & Rubber Debris	0.5%	1.0%	0.8%	0.9%	0.6%	0.3%	0.4%	0.0%
Tobacco Other (packs, matches, cellophane)	2.7%	4.5%	5.7%	4.4%	2.6%	1.5%	8.8%	2.5%
Utensils	n/a	n/a	0.8%	0.7%	0.7%	0.4%	0.4%	1.3%
Vehicle & Metal Road Debris	1.2%	1.5%	0.8%	1.5%	0.6%	0.8%	0.5%	0.9%
Water (Glass)	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%
Water (Plastic)	2.5%	2.7%	2.5%	3.0%	2.6%	2.6%	1.3%	0.6%
Wine/ Liquor (Glass)	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
Wine/ Liquor (Plastic/Other)	0.1%	0.2%	0.0%	0.1%	0.0%	0.0%	0.0%	0.1%
Zipper Bags/ Sandwich	0.6%	1.0%	0.5%	0.6%	0.3%	0.3%	0.4%	0.4%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

APPENDIX F

SMALL LITTER DATA



Small Litter Items	2022	
	Count	Percent
Chewing gum (stuck on pavement)	406	13.1%
Cigarette butts/debris	922	29.6%
Glass	134	4.3%
Paper	571	18.4%
Other material	135	4.3%
Hard plastic	280	9.0%
Plastic film	266	8.6%
Candy packaging and wrappers	125	4.0%
Aluminum/foil debris	62	2.0%
Other polystyrene debris, ie. Poly foam pieces	74	2.4%
Metal (not aluminum)	49	1.6%
Food & Other Organics	26	0.8%
Bottle caps	16	0.5%
Rubber (scrap rubber debris, rubber bands, etc.)	16	0.5%
Other tobacco	2	0.1%
Plastic Eating Utensils		
Forks	2	0.1%
Knives	1	0.0%
Spoons	1	0.0%
Chop Sticks	1	0.0%
Straws	6	0.2%
Other	1	0.0%
E-waste (cables, usb keys, earbuds, etc)	6	0.2%
Polystyrene packing materials, ie. Foam peanuts	6	0.2%
Face Masks (< 4 square inches)	2	0.1%
Total Small Litter	3,110	100%

Small Litter	Tor-22	Tor-20	Tor-16	Tor-14	Tor-12	Tor-06	Tor-04	Tor-02
Chewing gum (stuck on pavement)	13.1%	22.5%	25.4%	32.6%	28.9%	30.9%	0.0%	0.0%
Cigarette butts/debris	29.6%	18.1%	22.3%	26.1%	31.3%	14.8%	20.6%	22.5%
Glass	4.3%	12.9%	7.0%	4.7%	2.1%	15.4%	20.6%	13.5%
Paper	18.4%	12.0%	20.9%	16.9%	16.5%	17.3%	31.6%	33.9%
Other material	4.3%	10.7%	4.9%	2.8%	0.7%	2.5%	3.8%	3.2%
Hard plastic	9.0%	7.1%	6.5%	4.8%	4.9%	3.6%	7.2%	7.1%
Plastic film	8.6%	4.1%	3.0%	2.6%	4.6%	2.8%	4.4%	7.1%
Candy packaging and wrappers	4.0%	3.1%	2.5%	2.8%	4.5%	1.6%	3.4%	2.6%
Aluminum/foil debris	2.0%	2.8%	2.1%	2.1%	1.1%	2.4%	2.1%	4.0%
Other polystyrene debris, ie. Poly foam pieces	2.4%	2.7%	0.6%	0.4%	2.1%	1.7%	1.0%	2.4%
Metal (not aluminum)	1.6%	1.3%	1.6%	1.5%	0.8%	1.1%	2.3%	1.3%
Food & Other Organics	0.8%	0.8%	1.3%	1.1%	0.0%	0.0%	0.0%	0.0%
Bottle caps	0.5%	0.7%	0.5%	0.3%	0.9%	0.1%	0.5%	0.5%
Rubber (scrap rubber debris, rubber bands, Other tobacco	0.5%	0.3%	0.1%	0.4%	0.1%	0.7%	0.9%	0.3%
Plastic Eating Utensils	0.1%	0.3%	0.6%	0.3%	0.7%	2.4%	1.1%	0.1%
Forks	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Knives	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Spoons	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Chop Sticks	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Straws	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Other	0.2%	0.2%	0.1%	0.3%	0.3%	0.4%	0.5%	0.5%
E-waste (cables, usb keys, earbuds, etc)	0.0%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Polystyrene packing materials, ie. Foam peanuts	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Face Masks (< 4 square inches)	0.2%	0.0%	0.7%	0.3%	0.4%	2.3%	0.2%	0.9%
Face Masks (> 4 square inches)	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

APPENDIX G

RANKING OF SITES



<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
25	20	130
111	106	67
409	255	65
500	273	64
122	117	55
602	300	54
4	4	47
119	114	47
100	95	44
32	27	43
6	6	41
515	288	39
258	209	39
142	136	39
313	228	36
23	18	35
503	276	35
153	147	33
115	110	33
182	176	32
73	68	31
509	282	31
8	8	31
77	72	31
2	2	30
178	172	29
401	248	29
28	23	29
110	105	29
507	280	29
260	211	29
45	40	29
304	219	28
524	297	28
303	218	28
311	226	27

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
602	300	111
153	147	69
259	210	65
40	35	50
69	64	48
155	149	43
150	144	42
305	220	41
132	126	39
329	239	33
92	87	32
32	27	30
164	158	30
161	155	29
408	254	29
36	31	28
217	195	28
183	177	25
334	243	25
142	136	25
409	255	25
418	264	24
145	139	24
261	212	23
300	215	22
120	115	22
212	190	22
522	295	22
504	277	21
122	117	21
148	142	21
518	291	21
210	188	20
49	44	20
301	216	20
513	286	20

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
602	300	165
25	20	145
153	147	102
409	255	90
111	106	81
122	117	76
32	27	73
259	210	71
500	273	71
69	64	69
142	136	64
155	149	62
119	114	59
150	144	56
4	4	55
40	35	54
6	6	53
305	220	53
313	228	52
100	95	50
515	288	50
132	126	49
178	172	49
258	209	49
161	155	48
300	215	46
522	295	46
59	54	44
77	72	44
503	276	44
45	40	43
182	176	43
210	188	43
217	195	43
329	239	43
141	135	42

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
338	247	27
94	89	27
67	62	26
141	135	25
116	111	25
83	78	25
43	38	25
104	99	25
300	215	24
98	93	24
59	54	24
522	295	24
323	235	24
210	188	23
318	232	23
412	258	23
207	185	23
68	63	23
112	107	22
55	50	22
131	125	22
96	91	22
170	164	22
20	16	22
254	206	21
520	293	21
69	64	21
114	109	21
222	200	21
101	96	21
519	292	20
85	80	20
47	42	20
105	100	19
161	155	19
155	149	19

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
178	172	20
332	241	20
425	271	20
59	54	20
151	145	20
61	56	19
86	81	19
207	185	19
214	192	18
224	202	18
85	80	18
330	240	18
520	293	18
149	143	18
412	258	18
112	107	17
141	135	17
336	245	16
223	201	16
34	29	16
43	38	16
313	228	16
29	24	16
16	13	16
179	173	15
25	20	15
24	19	15
66	61	15
222	200	15
37	32	15
111	106	14
152	146	14
328	238	14
47	42	14
45	40	14
411	257	14

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
183	177	42
207	185	42
23	18	41
43	38	41
110	105	41
303	218	41
412	258	41
509	282	40
524	297	40
8	8	39
94	89	39
112	107	39
260	211	39
520	293	39
85	80	38
148	142	38
304	219	38
507	280	38
36	31	37
115	110	37
164	158	37
332	241	37
513	286	37
28	23	36
83	78	36
86	81	36
92	87	36
116	111	36
222	200	36
73	68	35
47	42	34
114	109	34
254	206	34
323	235	34
401	248	34
504	277	34

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
52	47	19
310	225	18
53	48	18
154	148	17
218	196	17
513	286	17
148	142	17
86	81	17
113	108	17
60	55	17
183	177	17
332	241	17
308	223	17
316	230	17
33	28	16
312	227	16
417	263	16
328	238	16
103	98	16
201	179	15
217	195	15
158	152	15
109	104	15
209	187	14
70	65	14
150	144	14
30	25	14
215	193	14
12	10	14
21	17	14
516	289	14
521	294	14
35	30	13
171	165	13
123	118	13
504	277	13

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
114	109	13
172	166	13
173	167	13
251	204	13
254	206	13
303	218	13
312	227	13
321	234	13
42	37	13
77	72	13
419	265	13
51	46	13
524	297	12
110	105	12
215	193	12
129	124	12
119	114	12
422	268	12
6	6	12
203	181	12
502	275	12
94	89	12
219	197	12
174	168	12
515	288	11
158	152	11
182	176	11
514	287	11
83	78	11
105	100	11
116	111	11
413	259	11
521	294	11
221	199	11
324	236	11
208	186	11

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
104	99	33
2	2	32
96	91	32
145	139	32
338	247	32
425	271	32
49	44	31
67	62	31
131	125	31
311	226	31
408	254	31
101	96	30
105	100	30
170	164	30
301	216	30
328	238	30
52	47	29
120	115	29
149	143	29
312	227	29
334	243	29
55	50	28
218	196	28
261	212	28
318	232	28
330	240	28
24	19	27
212	190	27
518	291	27
158	152	26
215	193	26
223	201	26
418	264	26
519	292	26
61	56	25
98	93	25

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
413	259	13
512	285	13
24	19	12
425	271	12
58	53	12
76	71	12
205	183	12
402	249	12
309	224	12
305	220	12
213	191	12
41	36	12
152	146	11
49	44	11
421	267	11
256	207	11
149	143	11
251	204	11
156	150	11
329	239	10
124	119	10
223	201	10
179	173	10
140	134	10
26	21	10
301	216	10
129	124	10
132	126	10
330	240	10
216	194	10
403	250	10
326	237	10
320	233	10
514	287	10
62	57	10
419	265	10

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
144	138	11
147	141	11
218	196	11
260	211	10
304	219	10
21	17	10
213	191	10
323	235	10
57	52	10
52	47	10
96	91	10
258	209	10
124	119	10
201	179	10
88	83	10
505	278	10
131	125	9
426	272	9
326	237	9
70	65	9
509	282	9
211	189	9
317	231	9
31	26	9
202	180	9
125	120	9
101	96	9
123	118	9
503	276	9
146	140	9
206	184	9
126	121	9
415	261	9
507	280	9
170	164	8
209	187	8

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
151	145	25
152	146	25
179	173	25
201	179	25
521	294	25
21	17	24
66	61	24
68	63	24
113	108	24
251	204	24
310	225	24
413	259	24
417	263	24
20	16	23
37	32	23
53	48	23
70	65	23
154	148	23
316	230	23
411	257	23
419	265	23
42	37	22
51	46	22
123	118	22
129	124	22
172	166	22
209	187	22
213	191	22
224	202	22
33	28	21
35	30	21
103	98	21
173	167	21
203	181	21
422	268	21
514	287	21

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
97	92	10
211	189	10
79	74	9
203	181	9
172	166	9
42	37	9
74	69	9
36	31	9
51	46	9
422	268	9
424	270	9
411	257	9
407	253	9
66	61	9
508	281	9
221	199	9
184	178	8
202	180	8
173	167	8
75	70	8
147	141	8
146	140	8
37	32	8
27	22	8
57	52	8
145	139	8
335	244	8
208	186	8
302	217	8
1	1	8
65	60	8
106	101	7
54	49	7
133	127	7
137	131	7
164	158	7

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
8	8	8
168	162	8
335	244	8
35	30	8
4	4	8
74	69	8
104	99	8
417	263	8
420	266	8
127	122	8
159	153	7
333	242	7
271	214	7
500	273	7
28	23	7
508	281	7
58	53	7
113	108	7
167	161	7
175	169	7
38	33	7
181	175	7
27	22	7
107	102	7
310	225	6
55	50	6
154	148	6
416	262	6
162	156	6
165	159	6
316	230	6
519	292	6
44	39	6
50	45	6
23	18	6
87	82	6

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
16	13	20
124	119	20
221	199	20
308	223	20
58	53	19
60	55	19
147	141	19
208	186	19
211	189	19
214	192	19
326	237	19
12	10	18
57	52	18
219	197	18
321	234	18
34	29	17
74	69	17
146	140	17
202	180	17
309	224	17
336	245	17
502	275	17
516	289	17
29	24	16
30	25	16
41	36	16
109	104	16
335	244	16
402	249	16
508	281	16
27	22	15
125	120	15
144	138	15
171	165	15
205	183	15
174	168	14

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
48	43	7
120	115	7
601	299	7
102	97	7
315	229	7
125	120	6
204	182	6
61	56	6
259	210	6
117	112	6
128	123	6
7	7	6
420	266	6
17	14	6
518	291	6
78	73	6
64	59	6
219	197	6
306	221	6
108	103	5
261	212	5
333	242	5
50	45	5
18	15	5
159	153	5
151	145	5
107	102	5
175	169	5
212	190	5
307	222	5
127	122	5
321	234	5
502	275	5
252	205	5
501	274	5
250	203	5

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
100	95	6
318	232	5
306	221	5
53	48	5
33	28	5
302	217	5
1	1	5
204	182	5
309	224	5
67	62	5
128	123	5
401	248	5
39	34	5
121	116	5
315	229	5
139	133	5
89	84	5
91	86	5
338	247	5
93	88	5
103	98	5
163	157	4
311	226	4
169	163	4
423	269	4
12	10	4
48	43	4
73	68	4
424	270	4
115	110	4
402	249	4
510	283	4
517	290	4
525	298	4
63	58	4
82	77	4

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
216	194	14
420	266	14
421	267	14
1	1	13
62	57	13
127	122	13
156	150	13
256	207	13
302	217	13
317	231	13
324	236	13
403	250	13
424	270	13
512	285	13
26	21	12
76	71	12
107	102	12
159	153	12
175	169	12
315	229	12
333	242	12
407	253	12
426	272	12
31	26	11
48	43	11
50	45	11
97	92	11
126	121	11
128	123	11
140	134	11
168	162	11
184	178	11
204	182	11
306	221	11
320	233	11
38	33	10

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
410	256	5
224	202	4
16	13	4
157	151	4
40	35	4
334	243	4
160	154	4
56	51	4
144	138	4
523	296	4
99	94	4
135	129	4
163	157	4
506	279	4
63	58	4
317	231	4
5	5	4
92	87	4
337	246	3
80	75	3
426	272	3
181	175	3
38	33	3
165	159	3
136	130	3
166	160	3
177	171	3
168	162	3
511	284	3
324	236	2
162	156	2
139	133	2
46	41	2
126	121	2
31	26	2
44	39	2

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
41	36	4
90	85	4
216	194	4
257	208	4
184	178	3
307	222	3
18	15	3
308	223	3
160	154	3
205	183	3
81	76	3
516	289	3
403	250	3
220	198	3
407	253	3
421	267	3
62	57	3
176	170	3
180	174	3
106	101	3
143	137	3
410	256	3
414	260	3
501	274	3
337	246	2
30	25	2
60	55	2
256	207	2
171	165	2
7	7	2
156	150	2
117	112	2
26	21	2
134	128	2
46	41	2
2	2	2

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
65	60	10
79	74	10
88	83	10
106	101	10
181	175	10
415	261	10
505	278	10
165	159	9
167	161	9
206	184	9
601	299	9
7	7	8
17	14	8
18	15	8
44	39	8
54	49	8
63	58	8
75	70	8
117	112	8
133	127	8
137	131	8
162	156	8
163	157	8
271	214	8
307	222	8
410	256	8
501	274	8
89	84	7
91	86	7
102	97	7
139	133	7
160	154	7
250	203	7
39	34	6
64	59	6
78	73	6

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
81	76	2
418	264	2
3	3	2
405	251	2
408	254	2
13	11	2
406	252	2
89	84	2
95	90	2
167	161	2
270	213	2
90	85	2
91	86	2
174	168	2
34	29	1
214	192	1
517	290	1
169	163	1
176	170	1
71	66	1
336	245	1
39	34	1
72	67	1
134	128	1
180	174	1
257	208	1
271	214	1
525	298	1
11	9	1
14	12	1
118	113	1
220	198	1
414	260	1
415	261	1
416	262	0
84	79	0

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
157	151	2
523	296	2
601	299	2
511	284	2
250	203	2
17	14	2
65	60	2
118	113	2
177	171	2
405	251	2
406	252	2
56	51	1
54	49	1
133	127	1
166	160	1
137	131	1
79	74	1
136	130	1
140	134	1
252	205	1
98	93	1
84	79	1
20	16	1
108	103	1
99	94	1
320	233	1
97	92	1
5	5	1
11	9	1
14	12	1
68	63	1
71	66	1
95	90	1
138	132	1
3	3	1
109	104	1

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
87	82	6
90	85	6
108	103	6
157	151	6
252	205	6
416	262	6
523	296	6
5	5	5
56	51	5
81	76	5
93	88	5
99	94	5
121	116	5
135	129	5
169	163	5
177	171	5
257	208	5
337	246	5
511	284	5
517	290	5
525	298	5
46	41	4
82	77	4
136	130	4
166	160	4
176	170	4
180	174	4
220	198	4
405	251	4
406	252	4
414	260	4
423	269	4
506	279	4
510	283	4
3	3	3
80	75	3

<i>Site ID</i>	<i>Site #</i>	<i>Lg Litter</i>
87	82	0
138	132	0
510	283	0
82	77	0
88	83	0
93	88	0
143	137	0
423	269	0
206	184	0
505	278	0
29	24	0
121	116	0
Total	3887	

<i>Site ID</i>	<i>Site #</i>	<i>Sm Litter</i>
135	129	1
75	70	0
102	97	0
506	279	0
78	73	0
13	11	0
76	71	0
270	213	0
512	285	0
72	67	0
64	59	0
80	75	0
Total	3110	

<i>Site ID</i>	<i>Site #</i>	<i>All Litter</i>
95	90	3
118	113	3
134	128	3
143	137	3
11	9	2
13	11	2
14	12	2
71	66	2
270	213	2
72	67	1
84	79	1
138	132	1
Total	6997	

APPENDIX H

BRANDED LITTER DATA



#	Brand Name	2022	
		Total	Percent (%)
1	Tim Hortons	179	20.4%
2	McDonald's	44	5.0%
3	Nestle	29	3.3%
4	Coca Cola	20	2.3%
5	Starbucks	20	2.3%
6	Kirkland	15	1.7%
7	Real Canadian Water	14	1.6%
8	Red Bull	14	1.6%
9	Heinz	11	1.3%
10	Kit Kat	11	1.3%
11	Belmont	10	1.1%
12	Dollarama	8	0.9%
13	Pall Mall Tobacco	7	0.8%
14	TTC	7	0.8%
15	A&W	6	0.7%
16	Great Value	6	0.7%
17	Nature Valley	6	0.7%
18	Shoppers Drug Mart	6	0.7%
19	Smarties	6	0.7%
20	Swiss Chocolate	6	0.7%
21	Wendy's	6	0.7%
22	Canada Dry	5	0.6%
23	Canadian Tire	5	0.6%
24	Fanta	5	0.6%
25	Hershey's	5	0.6%
26	Marlboro	5	0.6%
27	Mars	5	0.6%
28	Mentos	5	0.6%
29	Monster	5	0.6%
30	Oasis	5	0.6%
31	President's Choice	5	0.6%
32	Snickers	5	0.6%
33	Walmart	5	0.6%
34	BB (cigarettes)	4	0.5%
35	City of Toronto	4	0.5%

#	Brand Name	2022	
		Total	Percent (%)
36	Dentyne	4	0.5%
37	Fruitsations	4	0.5%
38	LCBO	4	0.5%
39	Molson Canadian	4	0.5%
40	Sealtest	4	0.5%
41	Uber Eats	4	0.5%
42	Werthers	4	0.5%
43	Aero	3	0.3%
44	Air Heads	3	0.3%
45	Burger King	3	0.3%
46	Canadian Classic	3	0.3%
47	Chatime Bubble Tea	3	0.3%
48	Compliments	3	0.3%
49	Crush	3	0.3%
50	Excel	3	0.3%
51	Hi-Chew	3	0.3%
52	John Player	3	0.3%
53	Made Good	3	0.3%
54	Nestea	3	0.3%
55	Pepsi	3	0.3%
56	Petro Canada	3	0.3%
57	Pringles	3	0.3%
58	Quaker	3	0.3%
59	Sprite	3	0.3%
60	Subway	3	0.3%
61	TD Canada Trust	3	0.3%
62	5 Gum	2	0.2%
63	7-Up	2	0.2%
64	Arizona	2	0.2%
65	Baby Bel	2	0.2%
66	Boston Pizza	2	0.2%
67	Canadian Lights	2	0.2%
68	Chapmans	2	0.2%
69	Chips Ahoy	2	0.2%
70	CIBC	2	0.2%

#	Brand Name	2022	
		Total	Percent (%)
71	Coffee Crisp	2	0.2%
72	Doritos	2	0.2%
73	Drumstick	2	0.2%
74	du Maurier	2	0.2%
75	Dubble Bubble	2	0.2%
76	Goldfish	2	0.2%
77	Halls	2	0.2%
78	Hubba Bubba	2	0.2%
79	Ikea	2	0.2%
80	Jolly Rancher	2	0.2%
81	KFC	2	0.2%
82	KIND	2	0.2%
83	Kinder Surprise	2	0.2%
84	Kool-Aid	2	0.2%
85	Lays	2	0.2%
86	Lindor Chocolate	2	0.2%
87	Lotus Biscoff Cookies	2	0.2%
88	Lucky Strike	2	0.2%
89	Maynard's	2	0.2%
90	Minute Maid	2	0.2%
91	Moosehead	2	0.2%
92	Mr. Freeze	2	0.2%
93	Muskoka Brewing	2	0.2%
94	NBA	2	0.2%
95	Next	2	0.2%
96	O'Henry	2	0.2%
97	Popeye's Chicken	2	0.2%
98	Pure Leaf	2	0.2%
99	Real Fruit	2	0.2%
100	Rice Krispy Squares	2	0.2%
101	Studio	2	0.2%
102	Taco Bell	2	0.2%
103	THC	2	0.2%
104	Tic Tac	2	0.2%
105	Twizzlers	2	0.2%

#	Brand Name	2022	
		Total	Percent (%)
106	Welches	2	0.2%
107	YOP	2	0.2%
108	5 Hour Energy	1	0.1%
109	7 Acres	1	0.1%
110	7 - Eleven	1	0.1%
111	Allens	1	0.1%
112	Allo	1	0.1%
113	All Star Wings & Ribs	1	0.1%
114	Alpenbitter	1	0.1%
115	Amtrak	1	0.1%
116	Arcor Candy	1	0.1%
117	Astro Original	1	0.1%
118	Avery	1	0.1%
119	Axe	1	0.1%
120	Baby Mum Mum	1	0.1%
121	Bandaid	1	0.1%
122	Bar Burrito	1	0.1%
123	Beatrice	1	0.1%
124	Beer Store	1	0.1%
125	Bell	1	0.1%
126	Belly Busters	1	0.1%
127	Belvedere	1	0.1%
128	Bento	1	0.1%
129	Bissli	1	0.1%
130	Black Horse	1	0.1%
131	Blue	1	0.1%
132	Boost	1	0.1%
133	Booster Juice	1	0.1%
134	Brisk	1	0.1%
135	Built (Protein bar)	1	0.1%
136	Carnation	1	0.1%
137	Campbell's	1	0.1%
138	Campino	1	0.1%
139	Cannabis Capsules	1	0.1%
140	Cataldi	1	0.1%
141	Champions	1	0.1%

#	Brand Name	2022	
		Total	Percent (%)
142	Chapstick	1	0.1%
143	Cheetos	1	0.1%
144	CHK Burrito	1	0.1%
145	Chocxo	1	0.1%
146	Chupachips	1	0.1%
147	Classico	1	0.1%
148	ClearBlue	1	0.1%
149	Clif bar	1	0.1%
150	Cold Shots	1	0.1%
151	Coors	1	0.1%
152	Corn Nuts	1	0.1%
153	Costco	1	0.1%
154	Cottage Springs	1	0.1%
155	Cry Baby	1	0.1%
156	Custom Delivery	1	0.1%
157	Dad's	1	0.1%
158	Daim	1	0.1%
159	Dasani	1	0.1%
160	Del Monte	1	0.1%
161	Delon	1	0.1%
162	Dempster's	1	0.1%
163	Dr. Pepper	1	0.1%
164	Duracell	1	0.1%
165	Ensure	1	0.1%
166	Eska	1	0.1%
167	Essie	1	0.1%
168	Esso	1	0.1%
169	Ethos	1	0.1%
170	Faxe	1	0.1%
171	Five Guys	1	0.1%
172	French's Ketchup	1	0.1%
173	Fresca	1	0.1%
174	Fruit by the foot	1	0.1%
175	Fruitee	1	0.1%
176	Frutty	1	0.1%

#	Brand Name	2022	
		Total	Percent (%)
177	Funyuns	1	0.1%
178	Gatorade	1	0.1%
179	George Brown	1	0.1%
180	Glade	1	0.1%
181	Green Shift	1	0.1%
182	Growers Cider	1	0.1%
183	Guinness	1	0.1%
184	Haagen-Dazs	1	0.1%
185	Halenda's	1	0.1%
186	Harvey's	1	0.1%
187	Hasty Market	1	0.1%
188	Havana Castle	1	0.1%
189	Heineken	1	0.1%
190	Hello Bello	1	0.1%
191	Hello Fresh	1	0.1%
192	Home Depot	1	0.1%
193	Ice Man	1	0.1%
194	Icon	1	0.1%
195	IOGO	1	0.1%
196	Juicy Dumpling	1	0.1%
197	Kelloggs	1	0.1%
198	Klondike Bar	1	0.1%
199	Krimos	1	0.1%
200	Krispy Kernels	1	0.1%
201	Krowka	1	0.1%
202	Kuii	1	0.1%
203	Kung Fu Tea	1	0.1%
204	Laffy Taffy	1	0.1%
205	La Fournee	1	0.1%
206	La Petite Brettone	1	0.1%
207	LD Tobacco	1	0.1%
208	Little Trees	1	0.1%
209	Longos	1	0.1%
210	Lush Vape	1	0.1%
211	Luso	1	0.1%

#	Brand Name	2022	
		Total	Percent (%)
212	Mad Mexican	1	0.1%
213	Madeleine	1	0.1%
214	Mario	1	0.1%
215	Mat	1	0.1%
216	Matinee	1	0.1%
217	Merci	1	0.1%
218	Mike and Ikes	1	0.1%
219	Mini Eggs	1	0.1%
220	Miss Vickies	1	0.1%
221	Mix Milk	1	0.1%
222	Montelier	1	0.1%
223	Mountain Dew	1	0.1%
224	Nano click	1	0.1%
225	Native	1	0.1%
226	Natrel	1	0.1%
227	Naya	1	0.1%
228	Neilson	1	0.1%
229	Next Original	1	0.1%
230	Next Select	1	0.1%
231	New Amsterdam	1	0.1%
232	Nicorette	1	0.1%
233	No Frills	1	0.1%
234	No Name	1	0.1%
235	Nongshim	1	0.1%
236	Nosh+Co	1	0.1%
237	Nutrigrain	1	0.1%
238	OLG	1	0.1%
239	One Protein	1	0.1%
240	Oreo	1	0.1%
241	Ozblu	1	0.1%
242	Pabst Blue Ribbon	1	0.1%
243	Papa John's	1	0.1%
244	Paramount	1	0.1%
245	Patty King	1	0.1%
246	Peking Express	1	0.1%

#	Brand Name	2022	
		Total	Percent (%)
247	Pelee Rouge	1	0.1%
248	Perrier	1	0.1%
249	Philip Morris	1	0.1%
250	Pilsbury	1	0.1%
251	Pizza Nova	1	0.1%
252	Pizza Pizza	1	0.1%
253	Poland Spring	1	0.1%
254	Popsicle	1	0.1%
255	Pop Tart	1	0.1%
256	Post-It	1	0.1%
257	Pret	1	0.1%
258	Pur	1	0.1%
259	Pure Joy	1	0.1%
260	Pure Sunform	1	0.1%
261	Purina	1	0.1%
262	Rachao Wrap	1	0.1%
263	Real Deal	1	0.1%
264	Reese's	1	0.1%
265	Rocky Mountain Quads	1	0.1%
266	Rogers Sugar	1	0.1%
267	Rothmans	1	0.1%
268	Royale	1	0.1%
269	Rubicon	1	0.1%
270	Selection	1	0.1%
271	Sesame Snaps	1	0.1%
272	Shell	1	0.1%
273	Sisu	1	0.1%
274	Six Fortune	1	0.1%
275	Vans	1	0.1%
276	Skittles	1	0.1%
277	SlimFast	1	0.1%
278	Snack Pack Pudding	1	0.1%
279	Snap Peas	1	0.1%
280	Sour Patch Kids	1	0.1%
281	Sorel	1	0.1%

#	Brand Name	2022	
		Total	Percent (%)
282	Special K	1	0.1%
283	Starburst	1	0.1%
284	Steri cup	1	0.1%
285	St. Louis Bar and Grill	1	0.1%
286	Sunset	1	0.1%
287	Sweet Shoppe	1	0.1%
288	Swiss Chalet	1	0.1%
289	Techwave Pro	1	0.1%
290	Tide	1	0.1%
291	Time Tobacco	1	0.1%
292	Tootsie Roll	1	0.1%
293	Toronto Parking Authority	1	0.1%
294	Trident	1	0.1%
295	Trojan	1	0.1%
296	Tropical Tea	1	0.1%
297	T&T	1	0.1%
298	Twisted Tea	1	0.1%
299	Unicef	1	0.1%
300	V8	1	0.1%
301	Visine	1	0.1%
302	VitaCoco	1	0.1%
303	Warheads	1	0.1%
304	Whiteclaw	1	0.1%
305	Wilson	1	0.1%
306	Wine Rack	1	0.1%
307	Winners	1	0.1%
308	Wrigley's	1	0.1%
Total		877	100.0%

APPENDIX I
RECYCLABLE LITTER AUDIT
RESULTS



Recyclables found in 2022 Toronto Litter Audit				
Category	Sub-Category	Weight (kg)	Percent (%)	Comment
Paper				
	Newspaper - Daily and Weeklys - Other	0.06	0.7%	
	Corrugated - Pizza Boxes etc.	1.25	13.6%	
	Boxboard/Cores	1.00	10.9%	
	Magazines and Catalogues	0.00	0.0%	
	Other Paper (includes aseptic containers, molded pulp)	0.57	6.2%	
Plastics				
	PET Beverage Bottles	2.57	27.9%	
	Laminated/Other Plastic Film and Bags	0.18	2.0%	
	Other Plastic Containers	0.83	9.0%	
	Single-use plastic cutlery (straws excluded)	0.08	0.9%	
Metals				
	Aluminum Food and Beverage Cans	0.84	9.1%	
	Steel Food and Beverage Cans	0.10	1.1%	
	Other Metal	0.00	0.0%	
Glass				
	Clear Glass Alcohol Beverage	0.00	0.0%	
	Coloured Glass Alcohol Beverage	0.70	7.6%	
	Clear and Coloured Glass Other Beverage and Food	0.74	8.0%	
E-waste				
	E-Waste (all - describe)	0.28	3.0%	headphones, wires
TOTAL		9.20	100.0%	