2017 City of Edmonton Litter Audit Report

The City of Edmonton, AB

Prepared for

The City of Edmonton

Prepared by

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EXECUTIVE SUMMARY

The City of Edmonton contracted AET Group Inc. (AET) to conduct litter audits at 123 preselected locations within the public realm across the city. The audits were conducted from May 29th to June 2nd, 2017 with the purpose of assessing the composition and amount of litter present on Edmonton streets.

During the study period AET staff examined large and small litter within the 123 sites across the City of Edmonton. The City has previously completed litter audits in 2009, 2010, 2011, 2012, 2013, 2014, 2015, and 2016. The methodology used in this year's audit was similar with those of previous years. AET visually assessed the litter within these 123 locations and recorded the type, and size of litter.

Key findings from the large litter audits:

- The average amount of large litter has decreased from an average of 11.1 items per site in 2016 to 7.2 items per site in 2017;
- The total number of large litter items decreased by 34.67% from 1,360 items in 2016 to 888.5 items in 2017;
- The number of sites with no large litter recorded increased from 22 sites in 2016 to 27 sites in 2017;
- The most commonly found item in the large litter audit was Miscellaneous Plastic, representing 10.75% of all large items audited in 2017 and 18.53% in 2016;

Key findings from the small litter audits:

- The average amount of small litter has decreased from an average of 9.4 items per site in 2016 to 7 items per site in 2017;
- The total number of small litter items decreased by 25.84% from 1,161 items in 2016 to 861 items in 2017;
- The most commonly found small litter item was cigarette butts/debris, accounting for 33.80% of all small litter audited, followed by paper at 18.35%.
- AET staff noted the presence of cigarette butt disposal bins located across the
 downtown core. These bins were present within high foot/pedestrian traffic areas
 across the City. It was also noted that the cigarette butts found in these areas were
 often found along the curb. This is an indication that those particular cigarette butts are
 originating from cars on the street. This is a common catch point for litter to
 accumulate.



1.0 INTRODUCTION

1.1 Background

The City of Edmonton contracted AET Group Inc. (AET) to conduct litter audits at 123 preselected locations within the public realm across the city. These sites can be seen below in Figure 1.1. The audits took place from May 29th through June 2nd, 2017 with the purpose of assessing the composition and amount of litter that was present on Edmonton 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 2017 Litter Audit was scheduled approximately four weeks early due to the planned Canada 150 Clean Up campaign that was due to run in the two weeks leading up to Canada Day on July 1. Concerns had been expressed about ensuring that the two week campaign did not artificially impact on the 2017 Litter Audit results. It was decided to move the audit up accordingly but still have it occur after the completion of the City of Edmonton's annual spring clean up initiative.

The City of Edmonton Public Places Bylaw #14614 Section 4 states that a person shall not leave any garbage litter or other refuse in a public place except in a receptacle designed and intended for such use. The City of Edmonton has litter bins throughout the city with receptacles for garbage and recycling. Within the downtown core there were also receptacles for cigarette butts, these were heavily used by residents.



Edmonton Litter Sites 2009 - 2017

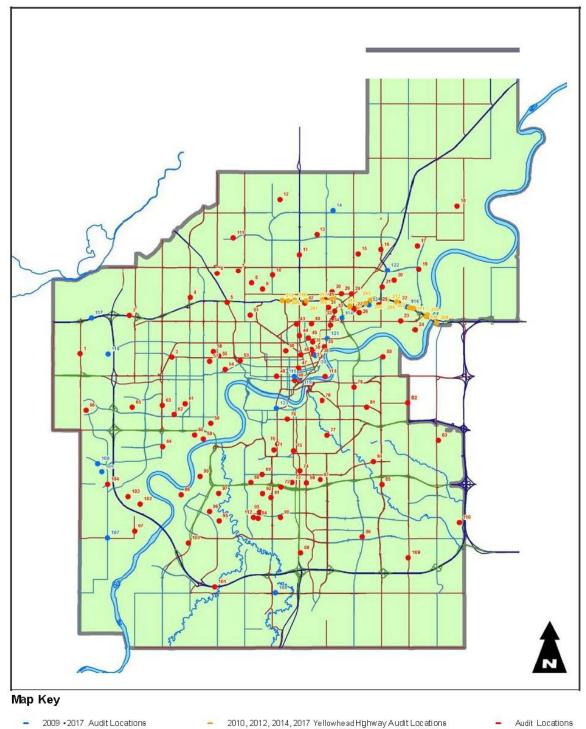


Figure 1.1 Edmonton Litter Audit Site Locations



1.2 Objectives

The litter audits were intended to accomplish the following:

- A detailed analysis of large litter items, 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 123 pre-selected locations which were determined by the City of Edmonton. There are at least a few sites in each area of the city, with a higher number in the densely populated downtown core. There were also a couple sites located on the major highways running through the City of Edmonton. The audits were conducted from May 29th through June 2nd, 2017. Two teams of two AET staff were assigned to complete the audits within the one week time period. AET staff members were responsible for observing accumulated litter and recording data for the classification of large litter, the classification of small litter, and background information for each of the 123 sites. The methodology used in the 2017 litter audit was the same methodology used in previous audits. There are 87 large litter categories and 17 small litter categories. More information about the methodology can be found in Appendix C.

2.2 Survey Data Collection

AET staff completed the Site Surveyor Form provided by the City of Edmonton for each of the assigned 123 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
- GPS Coordinates

The forms can be found in Appendix D.



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

2.3 Large Litter Data Collection

After the site was measured and information about the site was recorded, an AET staff member completed the Large Items Count form. After two passes of the site were completed, information about the type of litter present within the study area was 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.

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 123 sites was transferred into an Excel worksheet, results of which can be found in Appendix F.

2.5 Additional Cigarette Butt/Litter Trends for 2017

In addition to the site survey information, AET made notes on cigarette butt/other litter trends at the different litter sites across the city. Additional notes were made on the following:

- Cigarette butt litter at the nearest intersection;
- Whether litter was scattered versus piled;
- Whether there was evidence of litter dumping; and,
- Details on where litter could be coming from (i.e. congregation spots of smokers near office buildings, heavy foot traffic, etc.).

These trends are discussed further in Section 4.0 – Additional Observations. All notes can be found in Appendix A: Site Location Details.



3.0 SUMMARY OF AUDIT 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, 62.50% of the audit locations were on minor city streets, 37.50% of the audit locations were on major city streets.

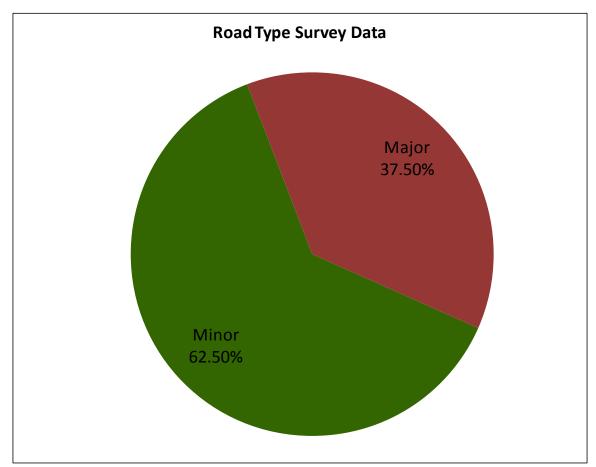


Figure 3.1 Road Type Results – Survey Data

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 across all litter sites. The most common visual rating was Litter Index 1, 69.11% of the sites were classified as the cleanest rating with less than 5 pieces of litter visible.



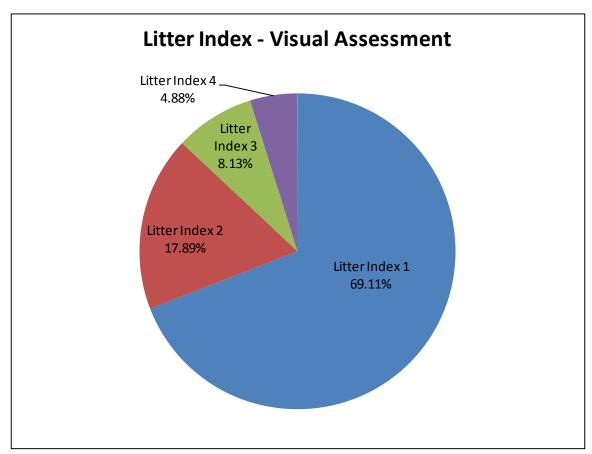


Figure 3.2 Visual Rating Distribution Across All Litter Sites

3.2 Large Litter Results

Large litter is any piece of litter within the site that is equal to or greater than 4 square inches. As shown in Figure 3.3, the average amount of large litter found at each site has been steadily decreasing since the first audit for which data was available, which was conducted in 2009. This trend continued with the 2017 audit, with an average of 7.2 large litter items per site, down from an average of 11.1 items per site in 2016.



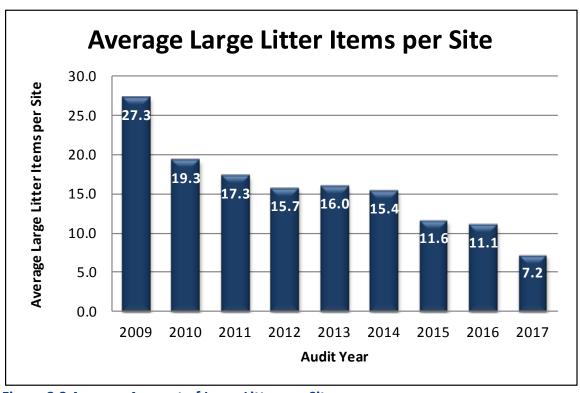


Figure 3.3 Average Amount of Large Litter per Site

The occurrence of the most common type of large litter, Miscellaneous Plastic, decreased from 18.53% in 2016 to 10.75% in 2017. This has been the most common type of large litter. Cup Lids, Pieces, Lids was the second most common type of Large Litter that has increased in occurrence from 6.43% in 2016 to 9.90% in 2017. The miscellaneous plastic typically consists of unidentifiable items that have been torn apart. Often in many cases there may be several pieces of large litter on a site that have come from the same source (i.e. torn up paper, broken plastic pieces).

Home articles have increased for the 2017 litter audit. Materials classified into this category included items such as Swiffer pad, dryer sheet, kneepad, flashlight, snowbrush, sanitary wipes, coffee filter, duct tape, sponge-type filter, condom, comb, nitrile gloves, pens, cell phone, dishwashing glove and diaper. These items cannot be dialled back to a particular source but it is believed that many of them are from garbage bag remnants. Home article litter items are not linked directly to any homeless activity.

Table 3.1 illustrates the 20 most common items of large litter found during the audit. These items account for 82.05% of the large litter identified. The complete list of all the items identified during the large litter audit can be found in Appendix E.



Table 3.1 Top 20 Large Litter Items

#	Large Litter Items	2017 Count	2017 Percent	2016 Count	2016 Percent	Acc. %
1	Misc. Plastic	95.5	10.75%	252.0	18.53%	10.75%
2	Cup Lids, Pieces, Lids	88.0	9.90%	87.5	6.43%	20.65%
3	No Brand Name Napkins / Serviettes	65.5	7.37%	82.0	6.03%	28.02%
4	Misc. Paper	62.0	6.98%	159.5	11.73%	35.00%
5	Plastic Packaging Other	55.5	6.25%	39.0	2.87%	41.25%
6	Construction debris	55.0	6.19%	91.0	6.69%	47.44%
7	Tobacco other	44.0	4.95%	39.0	2.87%	52.39%
8	Paper Cups (hot)	38.0	4.28%	48.0	3.53%	56.67%
9	Home Articles	32.0	3.60%	21.0	1.54%	60.27%
10	Receipts (business forms, bus tickets)	31.0	3.49%	29.0	2.13%	63.76%
11	Printed Material	24.0	2.70%	62.0	4.56%	66.46%
12	Paperboard (boxboard)	24.0	2.70%	13.0	0.96%	69.16%
13	Snack Food Packaging	21.5	2.42%	27.0	1.99%	71.58%
14	Vehicle & Metal Road Debris	19.0	2.14%	28.0	2.06%	73.72%
15	Clothing or Clothing Pieces	18.0	2.03%	20.0	1.47%	75.75%
16	Paper Food Wrap	13.5	1.52%	17.0	1.25%	77.27%
17	Plastic Drink Cups	12.0	1.35%	16.0	1.18%	78.62%
18	Paper Cups (cold)	12.0	1.35%	19.0	1.40%	79.97%
19	Paper Packaging Other	9.5	1.07%	13.0	0.96%	81.04%
20 Cardboard Boxes/ Box Material		9.0	1.01%	17.0	1.25%	82.05%
Total Top	20	729.0	82.05%	1080.0	79.41%	
Total - Al	l Litter	888.5	100.00%	1360.0	100.00%	

3.2.1 Large Litter by Material Type

Items within the large litter categories are composed of different material types. These items were categorized based on their known composition, including: paper, plastic, composite (made of multiple materials), metal, glass and other. Figure 3.4 illustrates the most common material types of the 888.5 large litter items observed. Both paper and plastic materials were the most common items observed, at 37.20% and 34.27%, respectively. Other is the third largest material type, representing 24.20% of the items observed. This includes cloth, tobacco, and items such as food and road debris.



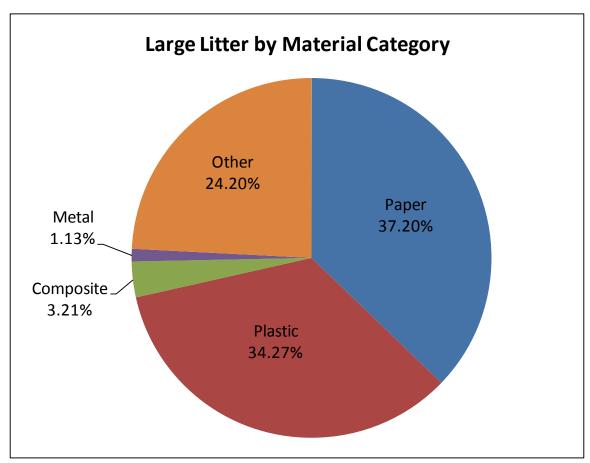


Figure 3.4 Large Litter by Material Type

3.2.2 Large Litter by Category

Table 3.2 below provides a summary of the total amount of large litter observed by each of the 13 categories used for the analysis of the large litter items. The three most common categories of litter audited in 2017 include Miscellaneous Litter, Cups, and Household Articles. Miscellaneous Litter includes items such as miscellaneous paper and plastic. These three categories have consistently been the largest contributors over the last couple of years.



Table 3.2 Large Litter by Category 2017 and 2016

Survey Year	20	2017		16
Sub-Category	Items	Percent	Items	Percent
Beverage Containers	12	1.35%	26	1.91%
Cups	159	17.90%	176.5	12.98%
Bags	28	3.15%	28.5	2.10%
Boxes	37	4.16%	35	2.57%
Other Containers	73	8.22%	68	5.00%
Wraps & Trays	31.5	3.55%	51.5	3.79%
Candy & Gum & Snacks	50	5.63%	60.5	4.45%
Fast Food Items	75.5	8.50%	102	7.50%
Household Articles	137	15.42%	214.5	15.77%
Printed Materials	59	6.64%	105	7.72%
Tobacco Products	44	4.95%	39	2.87%
Miscellaneous Litter	171.5	19.30%	444.5	32.68%
Additional Categories	11	1.24%	9	0.66%
Total	888.5	100%	1360	100%

Figures 3.5 and 3.6 below provide a comparison of each of the categories in the Large Litter audit in 2017 and 2016, respectively. The values for miscellaneous litter have been broken down into the individual categories (misc. plastic, paper, paperboard, cardboard and glass) to better demonstrate the types of miscellaneous litter found since they represent such a high percentage.



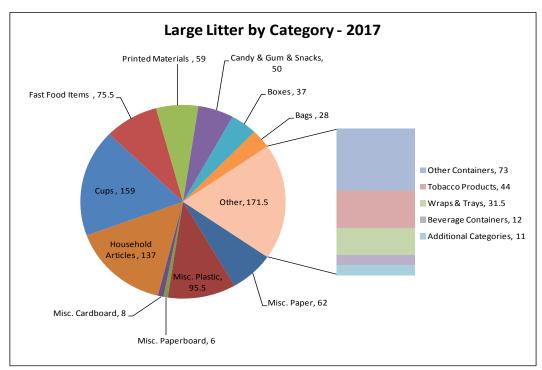


Figure 3.5 Large Litter by Category 2017

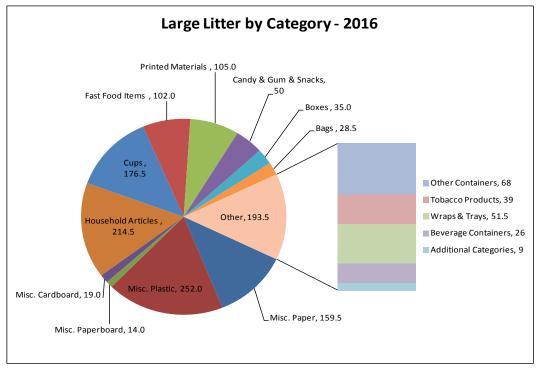


Figure 3.6 Large Litter by Category 2016



3.2.3 Large Litter by Sites

Tables 3.3 and 3.4 below illustrate the 10 sites with the highest item counts for Large Litter in 2017 and 2016. In 2016, site #2 had the highest amount of Large Litter with 206 pieces audited. In 2017, the site with the highest amount of litter was site #21 with 56 pieces of Large Litter. It was noted that this site had a lot of different types of large litter, including a high amount of miscellaneous plastic, cup lids, and no brand name napkins/serviettes. A total of 4 of the sites that fall within the top 10 highest litter count have remained the same from 2017 to 2016. These sites include sites #34, #101, #89, and #22.

Table 3.3 Highest Ranking Sites for Large Litter 2017

Site #	Lg Litter	Street Name	Site Description
21	56	50 STREET NW	Site is just south of Hermitage Rd. south of Kennedale Shopping Centre.
34	52	80 STREET NW	80 St NW - just North of 116 Ave. Site is 100m north of 116 Ave. adjacent to Parkdale recycling depot.
46	37	107A AVENUE NW	Site is west of 97 St. Site is on the north side of 107A Ave. NW beginning at 98 Street.
101	35	ANTHONY HENDAY DR.	Site is on Anthony Henday Dr - West of 127 St. NW and East of 142 St. NW. Site on south side of Anthony Henday
36	34.5	JASPER AVENUE NW	Jasper Ave. at 90 St. NW. Site is on west boulevard commencing at 90St. NW in front of Boardwalk Centre and proceeding south.
43	29	117 AVENUE NW	117 AVENUE NW - End of site is at corner of 101 St and 117 Ave. Site is between 101 St and 102 St.
50	24	107 St. NW	Site is north of 109 Ave. on east side of the street commencing at the NE corner of 107 St and 109 Avenue
89	24	19 AVENUE NW	Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW across from Tim Horton's.
22	23	YELLOWHEAD TRAIL	Site on Yellowhead Tr. Site is 500m East of 50 St. and West of Victoria Trail.
120	22	92 STREET NW	Site is on 92 St. NW commencing at 106A Ave. where the LRT crossing is.



Table 3.4 Highest Ranking Sites for Large Litter 2016

Site #	Lg Litter	Street Name	Site Description
2	206	YELLOWHEAD TRAIL	Site is west of 190 St. between 184 St. and Anthony Henday Dr.
34	64	80 STREET NW	80 St NW - just North of 116 Ave. Site is 100m north of 116 Ave. adjacent to Parkdale recycling depot.
101	62	ANTHONY HENDAY DR.	Site is on Anthony Henday Dr - West of 127 St. NW and East of 142 St. NW. Site on south side of Anthony Henday Dr. 300 ft east of the White Mud Creek sign.
117	58	YELLOWHEAD TR	Travelling west on Yellowhead Tr. The site is on Yellowhead Tr. 200m east of the Winterburn exit.
100	55.5	TERWILLEGAR DRIVE NW	NE of Anthony Henday Dr. Site is on west side of Terwillegar Dr. NW 50 meters south of Haddow Dr.
28	43	127 AVENUE NW	Turn left (west) onto 127 Ave. Site on 127 Ave NW beginning at the north west corner of 67 St.
41	39	YELLOWHEAD TRAIL NW	Proceed east on Yellowhead Trail. Site on ramp to 82 St. NW. Site beginning at pumping station and proceeding
22	35	YELLOWHEAD TRAIL	Site on Yellowhead Tr. Site is 500m East of 50 St. and West of Victoria Trail.
45	34	93 STREET NW	Site is north of 112 Ave., on the east side of 93 St. NW commencing at house #11207.
89	32.5	19 AVENUE NW	Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW across from Tim Horton's.

3.2.4 Large Litter Statistical Tests

Statistical tests were conducted on the results of the large litter audits. The number of sites with no large litter increased from 22 sites in 2016 to 27 sites in 2017. The numbers of sites that rank above, on and below the average number of items audited per site are very similar in 2017 and 2016, but have improved. Table 3.5 displays the results. The average number of large litter items in 2017 is 7, compared to 11.1 in 2016. There was a decrease in the overall average. The number of sites that fell below average decreased from 69.11% to 67.48%.

Table 3.5 Site Ranking Distribution 2017, 2016

	2017 # of Sites Percent		2016		
Site Ranking			# of Sites	Percent	
Above Average	37	30.08%	34	27.64%	
Average	3	2.44%	4	3.25%	
Below Average	83	67.48%	85	69.11%	



3.3 Small Litter Results

There was a total of 861 pieces of Small Litter (< 4 square inches) observed by AET staff in the 2017 Small Litter audits for the City of Edmonton. This represents a significant decrease in Small Litter of 25.84% compared to 2016.

Table 3.6 illustrates the differences in the audited small litter from 2017 to 2016. As seen in the table, there are variances from the amount of small litter from 2017 to 2016. Though low in the number of pieces found, certain items such as other tobacco, metal (not aluminum), and aluminum/foil debris have decreased significantly in 2017 from 2016. However items such as bottle caps and polystyrene packing materials have increased. Cigarette butts/debris experienced a slight decrease of 10.19% (from 324 items in 2016 to 291 items in 2017). There was also a significant reduction in paper items counted (from 271 items in 2016 to 158 items in 2017).

Table 3.6 Small Litter Results 2017 & 2016

Small Litter Items	7	2017	2	2016	2016 to 2017
Siliali Litter Itellis	Items	Percent	Items	Percent	% Change
Cigarette butts/debris	291	33.80%	324	27.91%	(10.19%)
Other tobacco	0	0.00%	2	0.17%	(100.00%)
Bottle caps	8	0.93%	1	0.09%	700.00%
Straws	3	0.35%	4	0.34%	(25.00%)
Candy packaging and wrappers	52	6.04%	31	2.67%	67.74%
Polystyrene packing materials, ie. foam peanuts	17	1.97%	10	0.86%	70.00%
Other polystyrene debris, ie. poly foam pieces	53	6.16%	85	7.32%	(37.65%)
Glass	53	6.16%	143	12.32%	(62.94%)
Paper	158	18.35%	271	23.34%	(41.70%)
Plastic film	27	3.14%	55	4.74%	(50.91%)
Hard plastic	81	9.41%	78	6.72%	3.85%
Aluminum/foil debris	3	0.35%	40	3.45%	(92.50%)
Rubber	3	0.35%	6	0.52%	(50.00%)
Metal (not aluminum)	0	0.00%	2	0.17%	(100.00%)
Other material	8	0.93%	28	2.41%	(71.43%)
Chewing gum (stuck on pavement)	96	11.15%	70	6.03%	37.14%
Food & Other Organics	8	0.93%	11	0.95%	(27.27%)
Total Site Litter	861	100.00%	1,161	100.00%	-25.84%

3.3.1 Small Litter by Sites

Tables 3.7 and 3.8 illustrate the 10 sites with the highest item counts for Small Litter in 2017 and 2016. In 2016, the largest amount of small litter found was 127 pieces at site #86. In 2017, the largest amount of small litter found was 45 pieces at site #33 and #49. A total of two sites fell in the top 10 for small litter count in 2017 and 2016. These sites include site #49, and #101.



Table 3.7 Highest Ranking Sites for Small Litter 2017

Site ID#:	Sm Litter	Street Name	Site Description
33	45	119 AVENUE NW	Site north of Coliseum Transit Centre (76 St. NW) . Site on south side of 119 Ave. NW between 77 St. and 78 St. in front of James Kidney Park.
49	45	JASPER AVENUE	Site is west of 111 St. NW. Site on South side of Jasper Ave. commencing at bus stop #1466 and proceeding east. Site is in front of Covenant Health Edmonton General
82	44	92 AVENUE NW	Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Distribution #9210.
101	33	ANTHONY HENDAY DR.	Site is on Anthony Henday Dr - West of 127 St. NW and East of 142 St. NW. Site on south side of Anthony Henday Dr. 300 ft east of the White Mud Creek sign.
34	30	80 STREET NW	80 St NW - just North of 116 Ave. Site is 100m north of 116 Ave. adjacent to Parkdale recycling depot.
21	29	50 STREET NW	Site is just south of Hermitage Rd. south of Kennedale Shopping Centre.
76	29	82 AVENUE (Whyte Ave.)	Site is on 82 Ave. NW just west of 105 St.
115	27	JASPER AVENUE NW	Site is on the south side of Jasper Avenue NW between 102 St. NW and 103 St. NW.
108	23	ELLERSLIE RD	Site is east of 111 St. Site is on the south side of Ellerslie Rd. in front of the Ellerslie Rugby Club.
43	21	117 AVENUE NW	117 AVENUE NW - End of site is at corner of 101 St and 117 Ave. Site is between 101 St and 102 St.



Table 3.8 Highest Ranking Sites for Small Litter 2016

	Sm Litter	Street Name	Site Description
86	127	23 AVENUE NW	Site is west of 66 St. NW. Site is on the north side of 23 Ave. NW adjacent to Mill Wood Pk.
41	50	YELLOWHEAD TRAIL NW	Proceed east on Yellowhead Trail. Site on ramp to 82 St. NW. Site beginning at pumping station and proceeding west.
22	49	YELLOWHEAD TRAIL	Site on Yellowhead Tr. Site is 500m East of 50 St. and West of Victoria Trail.
48	47	100 AVENUE NW	Site is west of 102 St. Site is on the north side of 100 Ave. NW across from Riverview Inn (was Econo Lodge) commencing at house #10207.
121	41	112 AVENUE NW	Site is on the south side of 112 Ave. NW commencing 100 feet west of 82 St. NW and proceeding east. Site starts in front of the Highland's Plaza and continues in front of the Highland's Apt. Building.
101	36	ANTHONY HENDAY DR.	Site is on Anthony Henday Dr - West of 127 St. NW and East of 142 St. NW. Site on south side of Anthony Henday Dr. 300 ft east of the White Mud Creek sign.
72	34	WHITEMUD AVENUE	Site is west of 106 St. NW on the ramp from Whitemud Avenue to 106 St. NW.
2	33	YELLOWHEAD TRAIL	Site is west of 190 St. between 184 St. and Anthony Henday Dr.
49	32	JASPER AVENUE	Site is west of 111 St. NW. Site on South side of Jasper Ave. commencing at bus stop #1466 and proceeding east. Site is in front of Covenant Health Edmonton General
117	29	YELLOWHEAD TR	Travelling west on Yellowhead Tr. The site is on Yellowhead Tr. 200m east of the Winterburn exit.

3.3.2 Small Litter Statistical Tests

Statistical tests were conducted on the results of the small litter audit (Table 3.9). The number of sites with no small litter increased from 26 sites in 2016 to 29 sites in 2017. The numbers of sites that rank above, on and below the average number of items audited per site are very similar in 2017 and 2016. The average number of small litter items per site was 9.4 in 2016 and 7 in 2017.

Table 3.9 Site Ranking Distribution 2017, 2016

	2017		2016		
Site Ranking	# of Sites Percent		# of Sites	Percent	
Above Average	40	32.52%	40	32.52%	
Average	6	4.88%	3	2.44%	
Below Average	77	62.60%	80	65.04%	



4.0 ADDITIONAL OBSERVATIONS

AET staff noted the presence of any City of Edmonton litter bins within a 200 meter radius from the site boundary. Figures 4.1 and 4.2 are examples of litter bins that were present within or near some of the 123 audited sites. Figure 4.1 illustrates the City's litter bins that are commonly present at bus stops. Figure 4.2 illustrates litter bins that were commonly found in City of Edmonton downtown core for cigarette disposal. Of the 123 sites that were audited, 29 sites (23.58%) had litter bins present within a 200 meter radius, while 94 sites did not (76.42%).



Figure 4.1 City of Edmonton Street Litter
Bin



Figure 4.2 City of Edmonton Cigarette Butt Disposal

The areas with City of Edmonton litter bins nearby had on average 9.84 pieces of Large Litter within the site, and the areas without a nearby City of Edmonton litter bin had an average of 6.41 pieces of large litter. Litter bins were generally observed in areas with more public foot traffic. This could be the reason for the difference in the average amount of litter within areas with and without city litter bins.

As was noticed in 2016, the major anomaly occurs with the sites located along the major highways. This is an area where litter is blown around and often torn into several pieces. It is also an area that does not get serviced by cleanup crews on a regular basis. Some of the litter found on the major highways is a result of loose material falling off of travelling vehicles. There was a substantial reduction in litter found on the highways in 2017.

Within 4 of the 123 sites observed for litter, there was evidence seen of "litter dumping." This refers to the act of people dumping accumulated garbage out of their vehicle when waiting in traffic or exiting an off-ramp on the highway. Figures 4.3 to 4.7 provide examples of litter dumping and piled litter seen during the audit. It was noted by auditors that cigarette butt bins were more visible in the downtown core. A prime example of this is Site #115 – Jasper Ave had several cigarette disposal bins within the audit site. Another location on Jasper Ave (Site #49) had a lot of accumulated cigarette butts near the bus stop and bench. This site did not have a



cigarette butt disposal bin present and would be a suitable location for one. In general, auditors did not come across evidence of cigarette butt ashtrays being dumped based on the 123 locations observed. The areas that encompassed more litter are displayed below. More details and field notes are provided in Appendix A. It should be noted that notes made by the auditors refer to the general area of the litter audit location. The attributes described in comments may not be reflected in the actual litter audit count (i.e. see lots of cigarette butts just outside of the audit site but still in the same general area).



Figure 4.5 Site 123 - Piled Litter

Figure 4.6 Site 23 - Piled Litter





Figure 4.7 Site 47 – Piled Litter

Figure 4.8 Site 49 – Scattered Cigarette Butt Litter



5.0 SITE RANKING AND ATTRIBUTES

AET staff ranked each of the 123 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 5.1 illustrates the sites that have the greatest amount of large and small litter combined. A full list of all 123 sites can be found in Appendix G.

Table 5.1 Site Ranking for Combined Large and Small Litter

Site ID#:	All Litter	Street Name	Site Description
21	85	50 STREET NW	Site is just south of Hermitage Rd. south of Kennedale Shopping Centre.
34	82	80 STREET NW	80 St NW - just North of 116 Ave. Site is 100m north of 116 Ave. adjacent to Parkdale recycling depot.
101	68	ANTHONY HENDAY DR.	Site is on Anthony Henday Dr - West of 127 St. NW and East of 142 St. NW. Site on south side of Anthony Henday Dr. 300 ft east of the White Mud Creek sign.
82	65	92 AVENUE NW	Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Distribution #9210.
49	61	JASPER AVENUE	Site is west of 111 St. NW. Site on South side of Jasper Ave. commencing at bus stop #1466 and proceeding east. Site is in front of Covenant Health Edmonton General
46	52	107A AVENUE NW	Site is west of 97 St. Site is on the north side of 107A Ave. NW beginning at 98 Street.
33	50	119 AVENUE NW	Site north of Coliseum Transit Centre (76 St. NW) . Site on south side of 119 Ave. NW between 77 St. and 78 St. in front of James Kidney Park.
43	50	117 AVENUE NW	117 AVENUE NW - End of site is at corner of 101 St and 117 Ave. Site is between 101 St and 102 St.
36	43	JASPER AVENUE NW	Jasper Ave. at 90 St. NW. Site is on west boulevard commencing at 90St. NW in front of Boardwalk Centre and proceeding south.
22	42	YELLOWHEAD TRAIL	Site on Yellowhead Tr. Site is 500m East of 50 St. and West of Victoria Trail.

Attributes of the sites with the highest amount of combined small and large litter are provided in Table 5.2. Within these sites, 1 has fast food, 3 have convenience stores, and 1 site has both present. A stop sign or light is present at 70% of the sites and 70% do not have litter bins present. Major roads account for 70% of these areas, with 20% of the areas having commercial attributes and 20% having commercial-residential attributes.



Table 5.2 Top Ten Sites with the Highest Quantity of Large and Small Litter Items and Site Attributes

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Site #	All Litter	Fast Food	Conv Store	Stop	Litter Bin	Road Type	Area	Street Name	Site Description
21	85	Υ	Υ	Υ	Υ	Major	СОМ	50 STREET NW	Site is just south of Hermitage Rd. south of Kennedale Shopping Centre.
34	82	N	N	Υ	Υ	Major	COM-IND	80 STREET NW	80 St NW - just North of 116 Ave. Site is 100m north of 116 Ave. adjacent to Parkdale recycling depot.
101	68	N	N	N	N	Major	PARK	ANTHONY HENDAY DR.	Site is on Anthony Henday Dr - West of 127 St. NW and East of 142 St. NW. Site on south side of Anthony Henday Dr. 300 ft east of the White Mud Creek sign.
82	65	N	N	Y	N	Minor	IND	92 AVENUE NW	Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Distribution #9210.
49	61	N	Y	Υ	Y	Major	сом	JASPER AVENUE	Site is west of 111 St. NW. Site on South side of Jasper Ave. commencing at bus stop #1466 and proceeding east. Site is in front of Covenant Health Edmonton General
46	52	N	Υ	Υ	N	Major	COM-RES	107A AVENUE NW	Site is west of 97 St. Site is on the north side of 107A Ave. NW beginning at 98 Street.
33	50	N	N	N	N	Minor	PARK	119 AVENUE NW	Site north of Coliseum Transit Centre (76 St. NW) . Site on south side of 119 Ave. NW between 77 St. and 78 St. in front of James Kidney Park.
43	50	N	N	Υ	N	Minor	COM-RES	117 AVENUE NW	117 AVENUE NW - End of site is at corner of 101 St and 117 Ave. Site is between 101 St and 102 St.
36	43	N	N	Υ	N	Major	RES	JASPER AVENUE NW	Jasper Ave. at 90 St. NW. Site is on west boulevard commencing at 90St. NW in front of Boardwalk Centre and proceeding south.
22	42	N	N	N	N	Major	PARK	YELLOWHEAD TRAIL	Site on Yellowhead Tr. Site is 500m East of 50 St. and West of Victoria Trail.

6.0 LITTER ABATEMENT

The average amount of large litter has decreased from an average of 11.1 items per site in 2016 to 7.2 items per site in 2017. The following litter abatement practices are utilized for the City of Edmonton.

6.1 Capital City Clean Up Program

Capital City Clean Up Kit Program

Edmonton residents, businesses and community groups are encouraged to adopt the block surrounding their home, business area, or any block of space in their community, such as a schoolyard or a neighbourhood park to help keep it litter-free during the spring and summer months. Each registered volunteer receives a clean-up kit with supplies like garbage bags, gloves, etc.

Business Supporting Community

Capital City Clean Up's Business Supporting Community (BSC) initiative offers Edmonton-area companies a unique opportunity to fight litter while supporting local non-profit groups. Participating businesses pay organizations for litter cleanup as a unique fundraising opportunity. Schools and non-profit groups can provide an enthusiastic volunteer force.



From May to August, these groups are paid a weekly rate to clean up litter around a one-block area of the company's site. Businesses may also choose to have the group clean up another area, such as a playground, seniors' residence or Neighbourhood Park.

Community Bin Grants

Each spring, dozens of Edmonton community groups apply for help to get rid of any large, bulky items cluttering up the back alleys, streets or other areas in their neighbourhoods. Under the Community Bin Grant Program, the City offers funds on a first-come, first-served basis that can be used for bin rentals (including the truck, driver and disposal costs) and truck rentals to drive through the area and collect large items.

Fifteen to Clean Challenge

Capital City Clean Up has the 15-to-Clean challenge which challenges citizens to all throughout the year to spend 15 minutes cleaning up an area around their home, school, business or workplace. Capital City Clean Up offers free cleanup packages (one glove and garbage bag).

River Valley Clean Up

Throughout the summer and into the fall, Capital City Clean Up encourages people to pick up litter along the river valley and throughout the connecting ravines. People can register a group clean up at one of the City's river valley parks and Capital City Clean Up provides them with clean up supplies.

Ashtray Program

The city ashtray program works within Edmonton Business Revitalization Zones. We have installed and maintain 447 ashtrays throughout 9 commercial districts throughout the city.

Big Bin Event

The City of Edmonton's Big Bin Events accept household items that can't be set out for regular waste collection at no charge. Twelve of the weekend events are held in various locations throughout the City. This program accepts materials such as large furniture, white goods and ewaste.

Clean Canada Together Initiative

In recognition of Canada's 150th Anniversary, The City of Edmonton and Capital City Clean Up joined together with ten other major Canadian municipalities to promote a cross Canada clean up initiative from April 20 - May 20. Communities included Vancouver, Toronto, Winnipeg, Mississauga, Oakville, Nova Scotia, Hamilton, Vaughn and Brockville. Combined the ten communities collected 61,857 bags of litter. Plans are in the works to expand and continue this national initiative in 2018.



7.0 CONCLUSION

AET Group Inc. conducted litter audits at 123 pre-selected locations within the public realm across the City of Edmonton. The audits were conducted from May 29 – June 2nd 2017 with the purpose of assessing the composition and amount of litter present on Edmonton streets.

The type of litter was classified into two sizes: large litter, which is equal or larger than four square inches, and small litter, which is smaller than four square inches.

7.1 Large Litter Conclusions

Over the one-week study period, 123 sites within the City of Edmonton were audited for large litter. The key findings include:

- The average amount of large litter has decreased from an average of 11.1 items per site in 2016 to 7.2 items per site in 2017;
- The total number of large litter items decreased by 34.67% from 1,360 items in 2016 to 888.5 items in 2017;
- The total number of large litter items decreased by 73.56% from 3,361 items in 2009 to 888.5 items in 2017;
- The number of sites with no large litter recorded increased from 22 sites in 2016 to 27 sites in 2017; and,
- The most commonly found item in the large litter audit was Miscellaneous Plastic representing 10.75% of all large items audited. This item, along with Cup Lids, Pieces, Lids, has been observed as a common type of large litter present over the past couple of years.

7.2 Small Litter Conclusions

Over the one-week study period, 123 sites within the City of Edmonton were audited for small litter. The key findings include:

- The average amount of small litter has decreased from an average of 9.4 items per site in 2016 to 7 items per site in 2017;
- The total number of small litter items decreased by 25.84% from 1,161 items in 2016 to 861 items in 2017;
- The total number of small litter items decreased by 59.27% from 2,114 items in 2009 to 861 items in 2017;
- The total amount of cigarette butts decreased by 10.19% from 324 items in 2016 to 291 items in 2017; and,
- The most commonly found small litter item was cigarette butts, accounting for 33.80% of all small litter audited, followed by paper at 18.35%.



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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 # Street	Site Description	Date (mm/dd/yyyy)	Start Finish To	eam Fixed	Width 1 (ft)	Width 2 (ft)	Width 3 (ft)	Street Type	Lanes Divideo	d Area	Grass Ht. (Inches)	Conv Traffic Light or Lit Store Stop Sign	Mobile er Bin Food Vendor	Bench or Resting Bu Structure	Evidence us Stop of Litter Cleanup	Lg Litter S	Sm Litter Details on Litter Bi	Catch Pt Litter	Coordinates	Latitude	Longitude	Comments	Evidence of Litter Dumping?	Scattered vs. Details on where litter could be Piled coming from:	Approx. distance from audited site, re: infrastructure	Closest intersection notes:	Notes on cigarette butts:
1 WESTVIEW BLVD. NW	Site is on the south side of Westview Blvd. at the intersection of Westview	w 5/29/2017	11:55 AM 12:00 PM	B N	2	2	2	Minor	2 Y	RES	<3 N	N Y	N N	N	N N	0.0	4.0 NO BIN	Curb 1	N 53° 33.173 W113°	N 53° 33.173	W113* 41.390	N/A	N	S N/A	N/A	N/A	No Evidence of Cig Butts
2 YELLOWHEAD TRAIL	Blvd. and Winterburn Rd. Site is west of 190 St. between 184 St. and Anthony Henday Dr.	5/31/2017	11:57 AM 12:04 PM	в ү	18	18	18	Major	6 Y	PARK	3-6 N	N N	N N	N	N N	17.0	15.0 NO BIN	Curb 3	41.390 N 53° 34.409 W113° 38.706	N 53° 34.409	W113° 38.706	N/A	N	S N/A	N/A	N/A	No Evidence of Cig Butts
3 107 AVENUE NW	Site is on the south side of 107 Ave; East of Mayfield Road. Site is adjacen to Jasper Place Curling Club.	nt 5/29/2017	12:43 PM 12:53 PM	В У	18	18	18	Major	6 Y	СОМ	<3 N	N Y	N N	N	N N	5.0	12.0 NO BIN	Hedge-Grass Line 2	N 53° 33.081 W113° 36.407	N 53° 33.081	W113° 36.407	N/A	N	S N/A	N/A	N/A	No Evidence of Cig Butts
4 155 STREET NW	Site is south of 128 Ave. NW. Site is on 155 St. NW across from the Hexion chemicals gate on the west side of the street.	n 5/29/2017	11:00 AM 11:07 AM	B N	2	2	2	Laneway	2 N	IND	N/A N	N N	N N	N	N N	0.0	0.0 NO BIN	Curb 1	N 53° 35.767 W113° 33.988	N 53° 35.066	W113° 33.290	N/A	N	S N/A	N/A	N/A	No Evidence of Cig Butts
5 YELLOWHEAD TRAIL NW	Site is on the south side of Yellowhead Trail NW. Site is on the south side of the ramp to St. Albert Trail NW Site is west of 142 St. between 142 St. and St. Albert Trail on the north	e 6/1/2017	2:56 PM 3:07 PM	В Ү	18	18	18	Major	2 Y	IND	3-6 N	N Y	N N	N	N N	19.5	8.0 NO BIN	Fence - Curb 2	N 53° 34.810 W113° 35.285 N 53° 35.767 W113°	N 53° 34.810	W113° 35.523	STARTED WHEN SIDEWALK ENDED	N	S Perhaps bus stop, but more likely the highway	N/A	N/A	none found near intersection
6 134 AVENUE NW	side of the street. Site is on the south side of 135A Avenue commencing at intersection of	5/29/2017	10:45 AM 10:54 AM	В Ү	18	18	18	Minor	2 N	COM	<3 N	N N	N N	N	Y N	2.0	7.0 NO BIN	Curb 2	33.988 N 53° 35.840 W113°	N 53° 35.767	W113° 33.288	Lots of garbage together at end of site	Υ	S N/A	N/A	N/A	No Evidence of Cig Butts
7 135A AVENUE NW 8 123A STREET NW	131 St. and 135A Avenue. Site is north of 131 Ave. NW and south of 132 Ave. NW in front of	5/29/2017	10:33 AM 10:39 AM	B N	6 18	6	6	Minor	2 N	RES	N/A N	N N	N N	 	N N	6.0	1.0 NO BIN 2.0 NO BIN	Curb 1	32.798 N 53° 35.421 W113°	N 53° 35.818 N 53° 35.421	W113* 32.835 W113* 32.097	N/A N/A	N N	S N/A S N/A	N/A N/A	N/A N/A	No Evidence of Cig Butts No Evidence of Cig Butts
9 129 AVENUE NW	Chalmers Park. Site is on 129 Avenue NW between 119 St. NW and 117 St. NW. Beginnin	ng 5/29/2017	10:04 AM 10:10 AM	В У	18	18	18	Minor	2 N	RES	3-6 N	N N	N N	 	N N	4.0	0.0 NO BIN	Curb 1	32.097 N 53° 35.732 W113° 30.989	N 53* 35.261	W113* 31.540	N/A	N	s N/A	N/A	N/A	No Evidence of Cig Butts
10 113A STREET NW	at house # 11804 and proceeding east to house #11822. Site is on 113A St. north of 134 Ave. NW beginning at house #13419 and ending at house # 13435.	5/29/2017	9:54 AM 9:58 AM	B N	7	7	7	Major	4 Y	RES	N/A N	N N	N N	N	N N	7.0	0.0 NO BIN	Curb-Grass Line 2	N 53° 35.732 W113° 30.989	N 53° 35.732	W113* 30.989	N/A	N	S N/A	N/A	N/A	No Evidence of Cig Butts
11 97 STREET NW	Site is on 97 St. south of 144 Ave.	5/29/2017	8:44 AM 9:02 AM	B N	15	18	15	Major	6 Y	RES	3-6 N	N Y	N N	N	N N	8.0	13.0 NO BIN	Curb-Grass Line 3	N 53° 36.417 W113° 29.435	N 53° 36.373	W113° 29.435	N/A	N	S N/A	N/A	N/A	No Evidence of Cig Butts
12 173A AVENUE NW	Site is on 173A Avenue; west of 108 St. NW and east of 115 St. NW; between house #'s 10810 and 10834.	5/29/2017	2:15 PM 2:23 PM	B N	7	7	7	Minor	2 N	RES	N/A N	N N	N N	N	N N	2.0	0.0 NO BIN	Curb 1	N 53° 38.140 W113° 30.622	N 53° 38.140	W113* 30.622	N/A	N	S N/A	N/A	N/A	No Evidence of Cig Butts
13 88 STREET NW	Site is just north of 153 Ave. NW. Site is on 88 St. and begins at the corne of 156 Avenue proceeding north and beginning at house # 15615.	5/29/2017	8:19 AM 8:40 AM	A N	14	14	14	Minor	2 N	RES	<3 N	N Y	Y N	N	Y N	3.0	8.0 Next to bus stop	Curb-Grass Line 1	N 53° 37.041 W113° 28.569	N 53* 37.041	W113° 28.592	N/A	N	S Litter was close to litter bin by bus stop	N/A	intersection looks clean	No Evidence of Cig Butts
14 168A AVENUE NW	Site is on 168A Avenue NW. Site is west of 76 St. NW and east of 79 St.	5/31/2017	4:17 PM 4:20 PM	B N	6.5	6.5	6.5	Minor	2 N	RES	N/A N	N N	N N	N	N N	0.0	0.0 NO BIN	Curb 1	N 53° 37.788 W113° 27.787	N 53° 37.788	W113° 27.609	Very clean site	N	No Litter N/A	N/A	N/A	No Evidence of Cig Butts
15 63 STREET NW	Site is north of 144A Ave. NW. Site is on 63 St. beginning at house # 1407 and ending at house # 14419. Site is West of 50 St. NW. Site is on the north side of 146 Ave. NW	7 5/31/2017	4:01 AM 4:06 PM	B N	6	6	6	Minor	2 N	RES	N/A N	N Y	N N	N	N N	0.0	0.0 NO BIN	Curb 1	N 53° 36.380 W113° 26.325	N 53° 36.380	W113* 26.325	N/A		No Litter N/A	N/A	N/A	No Evidence of Cig Butts photo taken of cigarette butts at
16 146 AVENUE NW	beginning in front of the Casselwood Shopping Centre and ending just before house #5116.	5/30/2017	10:32 AM 10:45 AM	A N	18	18	16.5	Minor	2 Y	COM-RES	<3 N	YY	N N	N	N N	15.0	16.0 NO BIN	Curb-Grass Line 1	N 53° 36.531 W113° 25.084	N 53* 36.531	W113° 25.135	Cig Butts scattered along side of sidewalk along Casselwood Shopping Center - photo taken	N	S Convenience store, road & sidewalk usage	N/A	N/A	intersection near convenience store
17 KIRKNESS ROAD NW	Site is West of 30 St. NW. Site is on the north side of Kirkness Rd. NW in Kirkness Park immediately west of Kirbness School.	5/30/2017	8:47 AM 9:04 AM	A Y	18	18	18	Minor	2 N	RES-PARK	<3 N	N N	Y N	Y	Y N	5.5	13.0 bin was full	Curb-Grass Line 2	N 53° 36.628 W113° 23.262	N 53° 36.666	W113° 23.139	Street sweeper came by during audit. End of site has bus stop w/ cig butts surrounding it.	N	S Bus Stop has many cigarette butts around it	site is within 100m of a school and park	N/A	No Evidence of Cig Butts
18 EVERGREEN DRIVE NW	Site is East of Fir Ave. NW. Site ion Evergreen Dr. NW begins at East Boundary of Community Park and ends at the West boundary at Evergreen Way.	5/30/2017	8:26 AM 8:39 AM	A N	18	18	11	Minor	2 Y	RES	3-6 N	N N	Y N	Y	N Y	2.0	6.0 near park bench	Fence-Curb-Grass Line	N 53° 37.931 W113° 21.045	N 53° 37.906	W113° 21.064	Man in a orange safety vest was cleaning litter.	N	S Park usage	N/A	Closest intersection clean	No Evidence of Cig Butts
19 28 STREET NW	Site is South of 137 Ave. and North of 136 Ave. Site on 28 St. NW begins at house #13605.	5/30/2017	9:10 AM 9:19 AM	A N	7	6.5	6	Minor	2 N	RES	<3 N	N N	N N	N	N N	1.0	1.0 NO BIN	Curb-Grass Line 1	N 53° 35.914 W113° 23.095	N 53° 35.914	W113° 23.095	Site very clean	N	S Sidewalk usage	N/A	N/A	No Evidence of Cig Butts
20 42 STREET NW	Site is South of 132A Ave. and North of 131 Ave. Site on 42 St. NW begin: at house #13107 and ends at #13203.	5/30/2017	9:33 AM 9:40 AM	A N	6.5	6.5	6.5	Minor	2 N	RES	<3 N	N N	N N	N	N N	0.0	1.0 NO BIN	Curb-Grass Line 1	N 53°35.565 W113°24.395	N 53*35.558	W113*24.395	Very clean site	N	S Sidewalk usage	N/A	3 cig butts at closest intersection	3 cig butts at closest intersection
21 50 STREET NW	Site is just south of Hermitage Rd. south of Kennedale Shopping Centre.	5/30/2017	9:45 AM 10:06 AM	A Y	18	18	18	Major	6 Y	сом	<3 Y	Y Y	Y N	Y	Y	56.0	29.0 Bin beside bus stop across street is ful	Curb-Grass Line 4	N 53° 35.307 W113° 25.082	N 53* 35.307	W113* 25.082	lots of fast food in area, Lots of large litter on Boulevard in front of new condos on Stella	N	S fast food restaurants, convenience store, sidewalk and road usage	N/A	many cig butts at closest intersection (photo taken)	many cig butts at closest intersection (photo taken)
22 YELLOWHEAD TRAIL	Site on Yellowhead Tr. Site is 500m East of 50 St. and West of Victoria Trail.	5/31/2017	2:02 PM 2:08 PM	В У	18	18	18	Major	4 Y	PARK	>6 N	N N	N N	N	N N	23.0	19.0 NO BIN	Grass Line 4	N 53° 34.791 W113° 24.118	N 53° 34.875	W113° 24.508	N/A	N	S N/A	N/A	N/A	No Evidence of Cig Butts
23 118 AVENUE NW	Site is on 118 Ave. at 38 St. NW. Site is on the north side of 118 Ave. NW and begins at Shoppers Drug Mart proceeding west 200'.	5/31/2017	2:28PM 2:34PM	В У	18	18	18	Major	4 Y	сом	<3 N	Y Y	Y N	Y	Y N	1.0	15.0 Beside bus stop & a	t Curb 1	N 53° 34.231 W113° 24.041	N 53* 34.223	W113* 24.042	N/A	N	P Shopper's Drug Mart, near intersection and bus stop	N/A		Cig butts found near tree bases, one pile of butts found at curb by
	Victoria Tail & 118 Ave. Going west on 118 Ave. turn left onto 34 St. ther	n																Hedge-Curb-Grass	N 53° 33.940 W113°							a tree	a tree
24 30 STREET NW	left onto 113 Ave. Proceed to 30 St. NW on right. Site is on 30 St. NW on west side of street beginning at the corner of 113 Ave. and 30 St. NW.	5/31/2017	2:17PM 2:23PM	B N	6	6	6	Minor	2 N	RES	N/A N	N Y	N N	N	N N	1.0	0.0 NO BIN	Line 1	23.297	N 53° 33.945	W113° 23.293	Fairly clean site	N	S N/A	N/A	N/A	No Evidence of Cig Butts
25 124 AVENUE NW	Victoria Trail & 118 Avenue: Proceed west on 118 Ave. and turn right onto 50 St. Proceed to 123 and turn left. Take next right onto 51 St. and	5/31/2017	2:41PM 2:48PM	B N	7	7	7	Minor	2 N	RES	N/A N	N Y	N N	N	N N	0.0	0.0 NO BIN	Curb Line 1	N 53° 34.752 W113°	N 53° 34.757	W113* 25.239	Very clean site	N	N/A N/A	N/A	N/A	No Evidence of Cig Butts
	proceed to 124 Ave. NW. Site is on the north side of 124 Ave. beginning a house # 5104. 118 Ave. & 50 St.: Proceed west on 118 Ave. to 62 St. NW. Turn right and	at .																	25.239						·	-	-
26 121 AVENUE NW	proceed north to 121 Ave. Turn left onto 121Avenue. Site on 121 Ave. NV begins at the SE corner of 63 St. & 121 Ave. N.	W 5/31/2017	2:51PM 2:59PM	B N	14.5	18	18	Minor	2 N	RES	3-6 N	N Y	N N	N	N N	0.0	0.0 NO BIN	Curb-Tree Line 1	N 53° 34.503 W113° 26.293	N 53* 34.508	W113° 26.337	Sidewalk was closed due to construction, surveyed Northeast side of intersection instead.	N	N/A N/A	N/A	N/A	No Evidence of Cig Butts
27 66 STREET NW	66th St. NW - just south of Yellowhead Trail and north of 122 Ave. Going west on 118 Ave. turn right onto 66 ST. NW and proceed north to 122	E/21/2017	1:34PM 1:44PM	B N	13.5	13.5	7	Major	4 Y	сом	<3 N	N N	N N	N	Y N	5.0	0.0 NO BIN	Fence-Curb-Grass 1	N 53° 34.627 W113°	N 53° 34.632	W113° 26.570	N/A	N	S Park nearby	50 m	N/A	2 cig butts observed along curb
	Avenue NW. Site begins at the SE corner of 66 St. and 122 Ave. proceedin east.	16						-										Line	26.575						Cash stores were 50 m of site,		within site
28 127 AVENUE NW	Turn left (west) onto 127 Ave. Site on 127 Ave NW beginning at the north west corner of 67 St.	6/1/2017	8:25AM 8:37AM	A N	9	9	9	Minor	2 N	COM-RES	>6 N	Y Y	N N	Y	Y N	18.0	4.0 Beside bus stop	Hedge-Curb-Grass Line 3	N 53° 35.105 W113° 26.710	N 53° 35.097	W113° 26.704	Site is in lower income area with cash stores nearby and several dumpsters in area.	N	S & P Cash Money and Cash Canada, 7- Eleven store	convenience store was 100 m of site	N/A	N/A
29 127 AVENUE NW	Proceeding west on Yellowhead Trail, turn north onto 66 ST. and proceed to 127 Ave. NW. Turn west onto 127 Ave. Site begins west of 73 St.	6/1/2017	8:40AM 8:49AM	A N	14	18	18	Minor	2 N	RES-IND	< 3 N	N Y	N N	N	N N	7.0	3.0 NO BIN	Curb-Grass-Tree Line 1	N 53° 35.102 W113° 27.274	N 53° 35.100	W113° 27.269	Residential/Industrial area with not much small litter present.	N	S Industrial site and residences nearby	50 m	N/A	N/A
30 128 AVENUE NW	Site on 128 Ave. NW just west 78 St. Site on north side of 128 Ave. beginning at house # 7907.	6/1/2017	8:52AM 8:59AM	A N	7	6.5	6.5	Minor	2 N	RES	<3 N	N N	N N	N	N N	2.0	1.0 NO BIN	Curb-Grass Line 1	N 53° 35.160 W113° 27.708	N 53* 35.160	W113* 27.707	Did not see much small litter present	N	S Sidewalk and road usage	N/A	No cig butts found at closest intersection	N/A
31 81 STREET NW	Site on west side of 81 St. NW south of 123 Ave Site begins at house # 12224 proceeding south for 200'.	6/1/2017	10:25AM 10:37AM	A N	16.5	16.5	16.5	Minor	2 N	RES	>6 N	N N	N N	N	N N	15.0	0.0 NO BIN	Curb-Grass Line 1	N 53° 34.685 W113° 27.937	N 53* 34.640	W113* 27.942	Did not see much small litter present	N	S Sidewalk and road usage	N/A	1 cig butt at closest intersection	N/A
32 77 STREET NW	Site on 77 St. NW south of 121 Ave. NW. Site is on east side of 77 St. commencing at house # 12118.	6/1/2017	10:40AM 10:51AM	A Y	18	18	18	Laneway	4 N	COM-RES	<3 N	N Y	N N	Y	Y N	13.0	6.0 NO BIN	Curb-Grass Line 2	N 53° 34.556 W113° 27.599	N 53° 34.557	W113° 27.600	Mostly residential area, some commercial businesses on opposite side of street along busy street	N	S Road usage, retail stores	150 ft	No cig butts found at closest intersection	N/A
33 119 AVENUE NW	Site north of Coliseum Transit Centre (76 St. NW) . Site on south side of	f 6/1/2017	10:57AM 11:10AM	A Y	18	18	18	Minor	2 N	PARK	<3 N	N N	N N	N	N N	5.0	45.0 NO BIN	Curb-Grass Line 1	N 53° 34.312	N 53° 34.319	W113*27.629	Site was fairly clean. Lots of small pieces of Styrofoam on site due to lawn mowing - not	N	S Parkland and road usage.	N/A	No cig butts found at closest	N/A
	119 Ave. NW between 77 St. and 78 St. in front of James Kidney Park.																		W113*27.641			much was included in actual count.		The majority of shingles appear to		intersection	
34 80 STREET NW	80 St NW - just North of 116 Ave. Site is 100m north of 116 Ave. adjacent to Parkdale recycling depot.	6/1/2017	11:55AM 12"29AM	A N	14	18	14	Major	4 N	COM-IND	N/A N	N Y	Y N	Y	Y N	52.0	30.0 Beside bus stop	Fence-Curb Line 4	N 53° 34.308 W113° 27.637	N 53° 34.026	W113° 27.837	Site is located partially in front of a building that has a high amount of shingles on the ground.	N	S have fallen from an industrial building, though most did not fall within our site.	Adjacent to site/on site	No cig butts found at closest intersection	N/A
35 JASPER AVENUE NW	Site on south side of Jasper Ave. between 82 St & 83 St.	5/31/2017	2:41PM 2:52PM	A Y	18	18	18	Major	4 N	RES	< 3 N	N Y	N N	N	N N	5.0	8.0 NO BIN	Curb-Grass Line 2	N 53° 33.400 W113°28.094	N 53° 33.393	W113*28.087	N/A	N	Road usage anartment huilding in	Adjacent/immediate to site	No cig butts found at closest intersection	N/A
36 JASPER AVENUE NW	Jasper Ave. at 90 St. NW. Site is on west boulevard commencing at 90St. NW in front of Boardwalk Centre and proceeding south.	5/31/2017	2:16PM 2:30PM	A Y	18	18	18	Major	4 N	RES	<3 N	N Y	N N	Y	Y N	34.5	8.0 NO BIN	Curb-Grass Line 3	N 53°33.148 W113° 28.381	N 53*33.121	W113° 28.388	N/A	N	S Road usage, businesses and apartment buildings nearby	N/A	4 cig butts at closest intersection - the wind may have piled them	N/A
37 106A AVENUE NW	Site is on north side of 106A NW commencing at 93 St. at house # 10640.	5/31/2017	1:41PM 1:49PM	A N	13	13	13	Minor	2 N	RES	<3 N	N N	N N	N	N N	6.0	2.0 NO BIN	Curb-Glass Line 1	N 53° 33.164 W113° 28.800	N 53° 33.086	W113° 28.768	N/A	N	S Road usage and sidewalk	N/A	near a gutter No cig butts found at closest intersection	N/A
38 108 AVENUE NW	108 Ave West of 93 St., Site on north side of 108 Ave. NW beginning at the Baptist Fellowship Building.	t 5/31/2017	1:51PM 2:07PM	A N	17.5	17.5	17.5	Minor	2 N	RES	3-6 N	N Y	N N	N	N N	15.0	12.0 NO BIN	Fence-Curb-Grass	N 53° 33.328 W113° 28.858	N 53° 33.313	W113° 28.925	9328 108 Avenue appears to be abandoned.	Υ	S & P Sidewalk and road usage	N/A		Pile of bottles and towels between
39 110 AVENUE NW	110 Ave West of 92 St. NW - 9003-9123. Site is on south side of 110 Ave	e. 5/31/2017	2:58PM 3:06PM	A N	15	15	15	Minor	2 N	RES	<3 N	N N	N N	N	N N	3.0	2.0 NO BIN	Curb-Grass Line 1	N 53° 33.558 W113°	N 53* 33.559	W113° 28.850	N/A	N	S Residents	N/A	No cig butts found at closest	N/A
40 91 STREET NW	across form St. Marta Rectory in front of parking lot. 91 STREET NW- N of 117 Ave. NW. Site is on east side of 91 St. NW beginning at house #11705.	5/31/2017	4:05PM 4:16PM	A N	16	16	16	Minor	2 N	RES	3-6 N	N Y	N N	N	N N	17.0	11.0 NO BIN	Fence-Curb-Grass 1	28.848 N 53° 34.165 W113°	N 53° 34.167	W113° 28.867	N/A	Y	S & P Sidewalk and road usage	N/A	No cig butts found at closest	Several cig butts clustered on grass
	Proceed east on Yellowhead Trail. Site on ramp to 82 St. NW. Site																	Line Fence-Curb-Grass	28.867 N 53° 34.912 W113°			Appears that lawn mower has cut up large		Industrial area and Yellowhead		intersection No cig butts found at closest	in front of house number 11705
41 YELLOWHEAD TRAIL NW	beginning at pumping station and proceeding west. Site on 95 ST. NW North of 124 Ave. commencing at house # 12402. Site	6/1/2017	9:09AM 9:24AM	A N	18	18	13	Major	6 Y	IND	>6 N	N Y	N N	N	N N	15.0	13.0 NO BIN	Line 2 Fence-Curb-Grass	28.125 N 53° 34.858 W113°	N 53° 34.917	W113° 28.076	Styrofoam into small litter. Overall, not too much litter	N	S highway within	N/A	intersection No cig butts found at closest	N/A
42 95 STREET NW 43 117 AVENUE NW	on east side of 95 St. commencing at corner of 124 Ave. and 95 St. 117 AVENUE NW - End of site is at corner of 101 St and 117 Ave. Site is	6/1/2017 5/31/2017	10:09AM 10:19AM 3:43PM 3:56PM	A N	17	17	17	Minor	2 N	RES COM-RES	<3 N	N N	N N		N N	29.0	3.0 NO BIN 21.0 NO BIN	Line 1 Curb-Grass Line 3	29.267 N 53° 34.126 W113°	N 53° 34.813 N 53° 34.133	W113* 29.246 W113* 29.686	Very clean site Large amount of large litter near business	N N	S Sidewalk and road usage S Sidewalk and road usage	N/A N/A	intersection Many cig buttes along side of curb,	N/A N/A
44 113 AVENUE NW	between 101 St and 102 St. Site is on the north side of 113 Ave. NW west of 97 St.	5/31/2017	3:23PM 3:33PM	A Y	18	18	18	Minor	2 N	RES RES	<3 N	N Y	N N		N N	8.0	5.0 NO BIN	Curb-Grass Line 1	29.694 N 53° 33.755 W113°	N 53 34.133 N 53° 33.751	W113 29.686 W113° 29.469	garbage bins. N/A	N N	S Sidewalk and road usage	N/A	few at the intersection No cig butts found at closest	N/A
45 93 STREET NW	Site is north of 112 Ave., on the east side of 93 St. NW commencing at house #11207.	5/31/2017	3:10PM 3:20PM	A N	16.5	16.5	16.5	Minor	2 N	RES	< 3, 3-6 N	N Y	N N	N	N N	13.0	10.0 NO BIN	Fence-Curb-Grass Line 2	29.518 N 53° 33.697 W113° 29.045	N 53° 33.699	W113° 29.049	N/A	N	S Sidewalk and road usage	N/A	No cig butts found at closest intersection	N/A
46 107A AVENUE NW	Site is west of 97 St. Site is on the north side of 107A Ave. NW beginning at 98 Street.	5/31/2017	12:19PM 12:35PM	A N	18	18	17	Major	4 N	COM-RES	3-6 N	Y Y	N N	N	N N	37.0	15.0 NO BIN	Curb-Grass Line- Cables 2	N 53° 33.159 W113° 29.424	N 53* 33.160	W113* 29.428	Ground lines to electricity poles acted as a catch point for large litter.	N	S Sidewalk, road usage, restaurants nearby	N/A	No cig butts found at closest intersection	N/A
47 103 AVENUE NW	Site is east of 101 St Site is on the north side of 103 Ave. beginning at SI	E 5/31/2017	10:36AM 10:46AM	A N	18	18	15	Major	4 N	сом	N/A N	N Y	Y N	Y	Y N	10.0	12.0 Beside bus stop	Curb 1	N 53° 32.795 W113°	N 53° 32.850	W113° 29.915	Site is immediately in front of Bell Tower at	N	Moderate foot traffic and lots of cars driving along 101 Street. Site		Cig butts piled along curb close to	
	corner of 101 St. in front of parking lot area opposite Capital Clean. Site is west of 102 St. Site is on the north side of 100 Ave. NW across fron																		29.927 N 53° 32.345 W113°			10104 103 Avenue Though litter still present, appears to be much		and parkades.	within 50 m. Go Backpackers Hostel is directly	intersection of 103 Ave and 101 St. No cig butts found at closest	
48 100 AVENUE NW	Riverview Inn (was Econo Lodge) commencing at house #10207. Site is west of 111 St. NW. Site on South side of Jasper Ave. commencing	3/31/2017 g	11:12AM 11:27AM	A Y	18	18	18		2 N	COM-RES	<3 N	N Y	Y N		Y N	2.0	14.0 Beside bus stop Beside bus stop & a	Curb-Grass Line 1	29.760 N 53° 32.434 W113°	N 53° 32.332	W113* 29.775	cleaner than previous audit. Witnessed smokers walking by while auditing	N	buildings in immediate vicinity Bus stop usage, mobile food	across from site. Restaurants and businesses about	intersection No cig butts found at closest	N/A Witnessed smokers about 50 m
49 JASPER AVENUE	at bus stop #1466 and proceeding east. Site is in front of Covenant Healtl Edmonton General		11:43AM 11:54AM	A Y	18	18	18	Major	6 N	СОМ	<3 N	YY	Y	Y	Y N	16.0	45.0 seside bus stop & a	Grass Line - Tree Line 2	30.741	N 53° 32.444	W113° 30.783	site in front of hospital.	N	S vendor, restaurant, hospital and businesses	50 m across the street.	intersection	from site.
50 107 St. NW	Site is north of 109 Ave. on east side of the street commencing at the NE corner of 107 St and 109 Avenue in park across the street from the school		2:23PM 2:34PM	A Y	18	18	18	Minor	2 N	RES-PARK	<3 N	N Y	Y N	Υ	N N	24.0	9.0 In park- several	Curb-Grass Line-Tree Line	N 53° 33.279 W113° 30.322	N 53° 33.292	W113° 30.279	Lots of people in the park with kids playing and having picnics.	N	Site is in a park across the street from a school. Lots of small litter (ie. Paper) from recent grass	Adjacent to site	No cig butts found at closest intersection	N/A
51 120 AVENUE NW	yard Site is west of 124 St. Site is on the north side of 120 Ave. beginning at	6/1/2017	3:33PM 3:42PM	A N	17	16	16	Minor	2 N	RES	3-6 N	N Y	N N	N	N N	10.0	0.0 NO BIN	Curb-Grass Line-Tree	N 53° 34.415	N 53° 34.421	W113*32.191	N/A	N	cutting. S Sidewalk and road usage	N/A	No cig butts found at closest	N/A
52 57 STREET NW	house #12402. Victoria Trail & 118 Avenue: Start at NE corner of 57 St and 122 Ave, proceed North	6/1/2017	2:58PM 3:11PM	A N	13.5	16	6	Minor	2 N		3-6 N	N N	N N		N N		5.0 NO BIN	Fence-Curb-Grass Line	W113*32.199 N 53* 34.708 W113* 25.741	N 53° 34.631	W113° 25.738	N/A	N N	Park and school residential	Park and school within 100m of	intersection No cig butts found at closest intersection	N/A
53 106 AVENUE NW	Site is west of 129 St. NW. Site is on the south side of 106 Ave. commencing at the corner of 106 Ave. and 129 St. NW at house # 12930.	5/29/2017	2:17PM 2:34PM	B N	16	16	16	Minor	2 N	RES	<3 N	N Y	N N	N	N N	0.0	1.0 NO BIN	Hedge-Curb-Grass	N 53° 32.967 W113° 32.638	N 53* 32.966	W113* 32.739	N/A	N	S Sidewalk and road usage	N/A	No cig butts found at closest intersection	N/A
54 103 AVENUE NW	Site is west of 137 St. NW. Site is on the north side of 103 Ave. NW	5/29/2017	1:45PM 1:53PM	B N	6.5	6.5	6.5	Minor	2 N	RES	<3 N	N Y	N N	N	N N		6.0 NO BIN	Line Curb-Grass Line 1	32.638 N 53° 32.677 W113°	N 53° 32.677	W113° 33.520	Fairly clean site, no large litter	N		N/A	No cig butts found at closest	N/A
	commencing at house # 13703.	.,,-01,				1					<u> </u>								33.520			,				intersection	.9

Appendix A
SRE LOCATION Details 2013
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Site # Street	Site Description	Date (mm/dd/yyyy)	Start Finish	Team Fixed	d Width 1 (ft)	Width 2 (ft)	Width 3 (ft)	Street Type	Lanes Di	Divided Area	Grass Ht. (Inches) Fast For	Conv Light or Litter Store Stop Sign	Mobile Bencl 3in Food Rest Vendor Struct		idence Litter Lg Litter eanup	Sm Litter Details on Litter Bi	Catch Pt Litter Index	Coordinates	Latitude	Longitude	Comments	Evidence of Litter Dumping?	Scattered vs. Details on where litter could be Piled coming from:	Approx. distance from audited site, re: infrastructure	Closest intersection notes:	Notes on cigarette butts:
55 141 STREET NW	Site is north of 107A Ave. NW - Site is on the east side of 141 St. NW commencing at house #10703.	5/29/2017	1:32PM 1:40PM	B N	16	16	16	Minor	2	N RES	<3 N	N N N	N N	N	N 1.0	1.0 NO BIN	Hedge-Curb-Grass Line	N 53° 33.132 W113° 33.782	N 53* 33.135	W113° 33.874	Fairly clean site	N	S Sidewalk and road usage	N/A	No cig butts found at closest intersection	N/A
56 144A STREET NW	Site is north of 107 Ave. NW and east of McQueen Rd NW. Site is on the north side of 144A St. NW in front of McQueen Pk. Commencing in front	5/29/2017	1:17PM 1:27PM	B N	8	8	8	Minor	2	N RES	<3 N	N N N	N Y	N	N 1.0	0.0 NO BIN	Hedge-Curb-Grass Line	N 53° 33.221 W113° 34.277	N 53* 33.226	W113° 34.229	Fairly clean site	N	S Sidewalk and road usage	N/A	No cig butts found at closest intersection	N/A
57 146 STREET NW	of the 144A St. Site is north of 106 Ave. NW. Site is on the west side of 146 St. NW commencing at house # 10607.	5/29/2017	1:03PM 1:11PM	B N	7.5	7.5	7.5	Minor	2	N RES	N/A N	N N N	N N	N	N 0.0	0.0 NO BIN	Curb Line 1	N 53° 32.937 W113° 34.352	N 53° 32.949	W113* 34.354	No litter found on site	N	S Sidewalk and road usage	N/A	No cig butts found at closest intersection	N/A
58 145 STREET NW	Site is south of 82 Ave. NW. Site is on the west side of 145 St. NW commencing at 82 Ave. NW.	6/2/2017	9:19AM 9:27AM	A N	8.5	8	7.5	Minor	2	N RES	<3 N	N N N	N N	N	N 0.0	1.0 NO BIN	Curb-Grass Line 1	N 53° 30.951 W113° 34.290	N 53* 30.951	W113* 34.290	Fairly clean site	N	S Sidewalk and road usage	N/A	Clean intersection, not many cigarette butts along curb or in general.	N/A
59 RIO TERRACE DRIVE NW	commencing across the street from house #14902.	6/1/2017	2:17PM 2:20PM	B N	6	6	18	Minor	2	N RES	N/A N	N N N	N N	N	N 0.0	0.0 NO BIN	Curb-Grass Line 1	N 53° 30.432 W113° 34.724	N 53° 30.444	W113* 34.723	Very clean site, very quiet residential area	N	S Sidewalk and road usage	N/A	No cig butts found at closest intersection	None found on site
60 154 STREET NW	Site is north of 76 Ave. NW. Site is on the west side of 154 St. NW commencing at the NE corner of the school yard of Rio Terrace Elementary School.	6/1/2017	2:26PM 2:31PM	B N	18	16	16	Minor	2	N RES	<3 N	N Y Y	N N	N	N 2.0	0.0 Corners of schoolya	Fence-Curb-Grass Line	N 53° 30.562 W113° 35.159	N 53° 30.581	W113* 35.191	Fairly clean site	N	S School children or cars stopping to pick up children	School is adjacent to site, construction across the street	No cig butts found at closest intersection	N/A
61 160 STREET NW	Site is north of 91 Ave. NW. Site on the east side of 160 street NW across the street form house #9131. Site is in front of Meadowlark Public School	5/29/2017	2:55PM 3:03PM	B N	16	16	15	Minor	2	N RES	<3 N	N Y N	N N	Y	N 3.0	2.0 NO BIN	Fence-Hedge-Curb Line	N 53° 31.595 W113° 35.651	N 53° 31.577	W113° 35.676	N/A	N	S School children	Site is about 100 m away	No cig butts found at closest intersection	N/A
62 164 STREET NW	Site is south of 88 Ave. and north of 87 Ave. Site is on the east side of 164 St. NW commencing in front of house #8707.	4 5/29/2017	3:08PM 3:11PM	B N	6.5	6.5	6	Major	2	N RES	N/A N	N N N	N N	N	N 0.0	1.0 NO BIN	Curb-Grass Line 1	N 53° 31.249 W113°36.262	N 53° 31.249	W113*36.261	Very clean site	N	S Sidewalk and road usage	N/A	No cig butts found at closest intersection	No cig butts found on site
63 170 St - near West Edm Mall	Site is north of 90 Ave. NW. Site is on the east side of 170 St. commencing at 90 Ave.	5/29/2017	3:23PM 3:30PM	в ч	18	18	18	Major	8	Y COM	<3 Y	Y Y N	N N	N	N 11.0	10.0 NO BIN	Curb-Grass Line 3	N 53° 31.516 W113° 36.945	N 53* 31.521	W113* 36.944	N/A	N	S Sidewalk and road usage	N/A	No cig butts found at closest intersection	Cig butts found along curb
64 170 St - south of West Edmonton Mall	Site on west side of 170 St. south of 69 Avenue. just south of the Husky Station.	6/2/2017	9:40AM 9:50AM	A Y	18	18	18	Major	6	Y COM	<3 Y	Y Y Y	N N	Y	N 5.0	4.0 In front of wine an spirit store	Curb-Grass Line 1	N 53° 31.515 W113° 36.942	N 53° 30.180	W113* 36.912	N/A	N	Commercial stores, people may S congregate at cross walk and bus stop across the street	Stores were adjacent to site	No cig butts found at closest intersection	N/A
65 90 AVENUE NW	Site is west of 184 St. NW. Site is on the north side of 90 Ave. NW commencing at intersection of 90 Ave. And 184 St. at house #18403.	5/30/2017	8:40AM 8:49AM	B N	6.5	6.5	6.5	Minor	2	N RES	N/A N	N N N	N N	N	N 0.0	0.0 NO BIN	Curb-Grass Line 1	N 53° 31.461 W113° 38.546	N 53* 31.457	W113° 38.557	No litter found on site	N	S Sidewalk and road usage	N/A	No cig butts found at closest intersection	No cig butts found on site
66 89 AVENUE NW	Site is west of 213 St. NW - 21303. Site is on the north side of 89 Ave. NW commencing at intersection of 213 St. and 89 Ave. at house #21303.	5/30/2017	8:55AM 9:04AM	B N	13	13.5	13.5	Major	2	N RES	<3 N	N N N	N N	Y	N 2.0	3.0 NO BIN	Curb-Tree Line 1	N 53° 31.358 W113° 41.126	N 53° 31.379	W113° 41.162	N/A	N	S Sidewalk and road usage	N/A	No cig butts found at closest intersection	N/A
67 219 STREET NW	219 STREET NW - North of 94A Ave. NW. House #9461 Site is north of Whitemud & 46 Ave. NW. Site on east side of 117A north	5/30/2017	10:43AM 10:47AM	B N	6.5	6.5	6.5	Minor		N RES	N/A N	N N N	N N	N	N 0.0	1.0 NO BIN	Curb-Grass Line 1	N 53° 31.862 W 113° 41.697 N 53° 29.048 W113°	N 53* 31.862	W 113* 41.696	Day of audit happened to be garbage day in the neighbourhood	N	S Garbage set outs	On site	One butt found at closest intersection	N/A
68 117A STREET NW 69 51 AVENUE NW	of 46 Ave. commencing at house # 46076. Site is east of 114A St. NW. Site on south side of 51 Ave. NW commencing	5/29/2017 5/29/2017	2:45PM 2:51PM 2:56PM 3:04PM	A N	7	7	7	Minor		N RES	<3 N	N N N	N N	Y	N 2.0 N 1.0	0.0 NO BIN 5.0 NO BIN	Curb-Grass Line 1 Curb-Grass Line 1	32.137 N 53° 29.290 W113° 31.441	N 53* 29.061 N 53* 29.290	W113* 32.136 W113* 31.441	N/A Fairly clean site	N N	S N/A S Bus stop, junior high school	N/A Across the street and up the street	N/A No cig butts found at closest	N/A Approximately 1 cig butt was
70 68 AVENUE NW	at house # 11415 proceeding east 200'. Site is east of 109 St. NW . Site on 68 Ave. NW on north side of street commencing at intersection of 109 St. and 68 Ave. proceeding east for	6/1/2017	11:00 AM 11:06 AM	B N	16	16	16	Minor	,	N RES	N	N V N	N N	N	N 6.0	10.0 NO BIN	Curb-Grass Line 2	N 53° 30.295 W113°	N 53* 30.295	W113* 30.682	Area is busy (car traffic), student	N	S N/A	N/A	More cigarettes around intersection at 68 Ave and 109 St.	found every 2 m along the curb N/A
70 OB AVENUE NW	200'. Site is north of 64 Ave. NW and south of 65 Ave. NW. Site is on the west	0/1/2017	11.00 AW 11.00 AW	B N	10	10	10	WIIIO	-	N NES	3 "		N N		0.0	10.0 NO BIN	Culti-diass tille 2	30.682	N 33 30.253	W113 30.082	neighbourhood.	N	3 N/A	N/A	compared to cigarette butts on site.	NYA
71 110 STREET NW	side of 110 St. NW commencing at 65 Ave. NW and proceeding south for 200'.	6/1/2017	11:11 AM 11:17 AM	B N	10.5	10.5	10.5	Minor	6	N RES	<3 N	N Y N	N N	N	N 1.0	0.0 NO BIN	Curb-Grass Line 1	N 53° 30.098 W113° 30.732	N 53* 30.098	W113* 30.732	N/A	N	S N/A	N/A	N/A	N/A
72 WHITEMUD AVENUE	Site is west of 106 St. NW on the ramp from Whitemud Avenue to 106 St. NW. Site is north of 52 Ave. NW. Site is on the east side of 104 A St. NW	5/29/2017	3:17 PM 3:30 PM	A Y	18	18	18	Major	4	Y COM	3-6 Y	N Y Y	N Y	Y	N 5.0	7.0 Next to bus stop	Curb-Grass Line 2	N 53° 29.275 W113° 31.449 N 53° 29.380 W113°	N 53° 29.275	W113* 31.449	The nearest intersection only showed traces of large litter, but very minimal.	N	S Side of the freeway (Whitemud Drive), exit ramp	N/A	One butt at the nearest intersection.	N/A
73 104A STREET NW	beginning at house # 5219. Just N of 51 Ave. NW. Site on east side of Gateway Blvd. NW along Koch	5/29/2017	3:55 PM 4:01 PM	A N	6.5	6.5	6.5	Minor		N RES	<3 N	N N N	N N	N	N 3.0	2.0 NO BIN	Curb-Glass Line 1	29.927 N 53° 29.337 W113°	N 53* 29.380	W113* 29.927	No intersection within vicinity of site Bus stop present (potential congregation spot).	N	S Sidewalk usage	N/A	None present More cigarettes found further	N/A
74 GATEWAY BOULEVARD N	Motors fence line.	6/1/2017	12:39 PM 12:45 PM	B N	16	14	16	Major	8	Y COM	<3 N	N Y N	N N	Y	N 1.0	2.0 NO BIN	Curb 1	29.512	N 53° 29.337	W113* 29.512	Site are was defined by parked cars on display.	N	S Bus stop. Fast food restaurants. Site is right beside a busy street	150 m	from intersection.	N/A
75 104 STREET NW	Site is north of 64 Ave. NW. Site is on the east side of 104 St., NW commencing at 64 Ave. at house #6404. NW.	6/1/2017	12:19 PM 12:29 PM	В У	18	18	18	Major	6	у сом	3-6 N	N Y N	N N	N	N 21.0	7.0 NO BIN	Curb-Grass Line 4	N 53° 30.067 W113° 29.858	N 53* 30.067	W113° 29.858	Commercial area with lots of car traffic. Large litter all trapped in tall grass area.	N	and auto body shop that opens onto the street. Litter could be coming from cars/pedestrians.	N/A	No cigarette butts found near curb nearest to intersection.	b N/A
76 82 AVENUE (Whyte Ave	.) Site is on 82 Ave. NW just west of 105 St.	6/1/2017	9:43 AM 9:49 AM	B N	17	16	17	Major	4	Y COM	N/A Y	Y Y Y	γ γ	Y	N 2.0	29.0 East of start and or	Curb 1	N 53° 31.086 W113° 30.058	N 53° 31.086	W113* 30.058	Bus stop present. Site is in front of stores (all potential sources of litter). No evidence of	N	Site is right along a strip of restaurants, coffee shops and	N/A	N/A	N/A
77 73 AVENUE NW	Site is west of 91 St. NW . Site on north side of 73 Avenue NW at commencing at 91 St.	6/1/2017	10:28 AM 10:30 AM	B N	7	7	7	Minor	2	N RES	N/A N	N N N	N N	N	N 0.0	0.0 NO BIN	Curb 1	N 53°30.608 W113° 28.005	N 53*30.608	W113* 28.005	cigarette butts around bus stops. Quiet residential area.	N	S Residential, N/A	N/A	N/A	None found
78 94 STREET NW	Site is north of 92 Ave. NW. Site is on the east side of 94 Street NW in front of the park commencing at house # 9230.	6/1/2017	9:17 AM 9:21 AM	B N	14.5	17	16.5	Minor	2	N RES	<3 N	N N N	N Y	N	N 0.0	2.0 NO BIN	Curb 1	N 53°31.607 W113° 28.287 N 53° 32.060 W113°	N 53*31.607	W113° 28.287	Bonnie Doon Park (playground approx 200 ft away in a potential congregation area)	N	S Park	60 m	N/A	N/A No cigarette butts found near
79 75 STREET NW 80 106 AVENUE NW	Site is north of 96A Ave. NW. Site on right boulevard (east side) of 75 St. NW commencing at 96A Ave. Site is east of 48 St. NW. Site on the south side of 106 Ave. NW	6/1/2017	8:50 AM 8:54 AM 8:34 AM 8:40 AM	B N	7	7	7	Major		N RES	N/A N	N Y N	N N	N N	N 2.0	1.0 NO BIN 0.0 NO BIN	Curb 1	26.557 N 53° 33.081	N 53* 32.060 N 53* 33.081	W113* 26.557 W113*24.983	Fairly clean, residential laneway/major street Very clean site in front of church and residential	N N	S N/A S No litter found	N/A N/A	N/A N/A	intersection No cigarette butts found
	commencing at 48 St NW in front of Bible Church. Site is north of 89 Ave. NW. Site on east side of 68 St. commencing at 89	0/1/2017	0.547411 0.407411				,	WIIIIO	•	· NLJ	14/4				1.0	0.0 INO DIIN	Cuio	W113°24.983	14 33 33.001	W113 14.303				1974	14/2	140 eigarette butta found
81 68 STREET NW		6/1/2017	9:31 AM 9:36 AM	B N	7	7	7	Minor	2	N RES	N/A N	N N N	N N	N	N 3.0	0.0 NO BIN	Fence -Curb 1	N 53° 31.474 W113° 25.879	N 53° 31.474	W113° 25.879	N/A	N	S N/A (residential)	N/A	N/A	No cigarette butts found anywhere
81 68 STREET NW 82 92 AVENUE NW	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Distribution #9210.	6/1/2017 6/1/2017	9:31 AM 9:36 AM 9:41 AM 9:50 AM	B N	7	7	7	Minor		N RES	N/A N	N N N	N N		N 3.0 N 21.0	0.0 NO BIN 44.0 NO BIN	Fence -Curb 1 Curb 2	N 53° 31.474 W113° 25.879 N 53° 31.626 W113° 23.641	N 53° 31.474 N 53° 31.604	W113° 25.879 W113° 23.686	N/A In front of busy Esso truck stop. Lots of through traffic. Lots of small litter.	N N	S N/A (residential) S N/A very industrialized area	92 m to Esso station	N/A N/A	No cigarette butts found anywhere Cigarettes were not found anywhere on the site
	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of			B Y B Y		7 18	1					N N N N N N N N N N N N N N N N	N N					25.879 N 53° 31.626 W113°			In front of busy Esso truck stop. Lots of through	N N N		·		Cigarettes were not found
82 92 AVENUE NW	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Distribution #9210. Site is on 70 Avenue NW just east of 17 St. NW commencing at the corner	6/1/2017	9:41 AM 9:50 AM	B Y B Y	18		18	Minor	6	Y IND	<3 N	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N Y		N 21.0	44.0 NO BIN	Curb 2	25.879 N 53° 31.626 W113° 23.641 N 53° 30.406 W113°	N 53* 31.604	W113° 23.686	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Picnic table beyond industrial building Litter may come from cars (major road) or closest commercial business is approx 50 ft	N N N	S N/A very industrialized area Picnic table behind industrial	92 m to Esso station Congregation point approx 60 m at picnic table behind industrial	N/A	Cigarettes were not found anywhere on the site No cigarette butts found on site More butts found further from intersection every 50 ft along the
82 92 AVENUE NW 83 70 AVENUE NW	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Bistribution (9210. Site is on 70 Avenue NV) just east of 17 St. NW. Commencing at the corne of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at 8 5918 CT Premail Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW	6/1/2017 r 6/1/2017	9:41 AM 9:50 AM 10:00 AM 10:05 AM	B Y B Y B Y	18		18	Minor	6	Y IND	<3 N <3 N <3 N	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N Y	N N Y	N 21.0	44.0 NO BIN 2.0 NO BIN	Curb 2	25.879 N 53* 31.626 W113* 23.641 N 53* 30.406 W113* 22.105 N 53* 29.191 W113* 25.554 N 53* 28.922 W113*	N 53° 31.604 N 53° 30.406	W113* 23.686 W113* 22.105	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Picnic table beyond industrial building Litter may come from cars (major road) or	N	S N/A very industrialized area S Picnic table behind industrial building Very industrial area, commercial	92 m to Esso station Congregation point approx 60 m at picnic table behind industrial building. Commercial business 15 m from start of site Tim Horton's is about 92 m from start of site	N/A N/A	Cigarettes were not found anywhere on the site No cigarette butts found on site More butts found further from
82 92 AVENUE NW 83 70 AVENUE NW 84 ROPER RD NW	Ave. N.W. Site is west of 34 St. N.W. Site on the north side of 92 Avenue in front of the street from Esso Distribution 89210. Site is on 70 Avenue NW just east of 17 St. NW commencing at the corner of 17 St. NW Am and 70 Ave. in front of Precision Costings & Hydraulics. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at 8 9518 CCI Thermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is north of 65 St. NW. Site is on the north side of 23 Ave. NW adjacent	6/1/2017 r 6/1/2017 6/1/2017	9:41 AM 9:50 AM 10:05 AM 128 PM 1:37 PM	B Y B Y B Y A Y	18 18 18		18 18 18	Minor Major Major	6	Y IND Y COM	<3 N <3 N <3 N	N N N N N N N N N N N N N N N N N N N	N N	N N Y	N 21.0 N 4.0 N 1.0	44.0 NO BIN 2.0 NO BIN 14.0 Beside bus stop	Curb 2 Curb 2 Curb 1 Curb 1	25.879 N 53*31.626 W113* 23.641 N 53*30.406 W113* 22.105 N 53*29.191 W113* 25.554 N 53*28.922 W113* 25.039 N 53*27.223 W113*	N 53* 31.604 N 53* 30.406 N 53* 29.191	W113* 23.686 W113* 22.105 W113* 25.554 W113* 25.039	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Plont table beyond industrial building Little may come front cars (major road) or dosest commercial business is approx 50 ft away from start of site Fast food locations dose by Intersection 23 aw 6.655 : minimal litter. Mall	N N	NA very industrialized area Picnic table behind industrial building Very industrial area, commercial business Soft away Close by strip mall complex Mail 300 m from site, site is	92 m to Esso station Congregation point approx 60 m at picnic table behind industrial building Commercial business 15 m from start of site Tim Horton's is about 92 m from	N/A N/A N/A	Cigarettes were not found anywhere on the site No cigarette butts found on site More butts found further from intersection every 50 ft along the curb
82 92 AVENUE NW 83 70 AVENUE NW 84 ROPER RD NW 85 50 STREET NW 86 23 AVENUE NW	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Distribution (9210. Site is on 20 Avenue NV) just east of 17 St. NW. Commencing at the corne of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at # 5918 CCT Thermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW.	6/1/2017 f 6/1/2017 6/1/2017 6/1/2017 t 5/29/2017	9:41 AM 9:50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 10:48 AM 11:04 AM	B Y B Y B Y A Y	18 18 18 18	18 18 18	18 18 18 18 18	Minor Major Major Minor Minor	6	Y IND Y IND Y COM Y COM Y PARR		N N N N N N N N N N N N N N N N N N N	N N N N N N N N	N N Y N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0	44.0 NO BIN 2.0 NO BIN 14.0 Beside bus stop 7.0 Beside bus stop 13.0 NO BIN	Curb 2 Curb 2 Curb 1 Curb 1 Curb-Grass Line 1	25.879 N 53* 31.626 W113* 23.641 N 53* 30.406 W113* 22.105 N 53* 29.191 W113* 25.554 N 53* 28.922 W113* 25.039	N 53* 31.604 N 53* 30.406 N 53* 29.191 N 53* 28.922 N 53* 27.223	W113* 23.686 W113* 22.105 W113* 25.554 W113* 25.039 W113* 26.158	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Plont table beyond industrial building Litter may come fron cars (major road) or dossest commercial business is approx 30 ft away from start of 3 services to the same of the s	N N N	N/A very industrialized area Picnic table behind industrial building Very industrial area, commercial business 50% away Close by strip mall complex Mail 300 nr from site, site is adjacent to a park	92 m to Esso station Congregation point approx 60 m at picnic table behind industrial building Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m Mall is 300 m from site	N/A N/A N/A N/A	Cigarettes were not found anywhere on the site No cigarette butts found on site More butts found further from intersection exposed by 50 talong the curb No cigarette butts found None evident
82 92 AVENUE NW 83 70 AVENUE NW 84 ROPER D NW 85 50 STREET NW 86 23 AVENUE NW 87 94 STREET NW	Ave. N.W. Site is west of 34 St. N.W. Site on the north side of 92 Avenue in front of the street from Esso Distribution (9210). Site is no 70 Avenue NN just east of 17 St. N.W. Commending at the corne of 17 St. N.W and 70 Ave. in front of Precision Coatings & Hydraulics. Site is west of 59 St. N.W. Site on the north side of Roper Rd. N.W. beginning at # 9918 CCT Thermal Technologies. Site is north of 44 Ave. N.W. Site is on the north side of 50 St. N.W. commencing 200' North of 44 Ave. N.W. Site is north of 45 Ave. N.W. Site is on the north side of 23 Ave. N.W adjacent to Mill Wood Pk. Site is north of 45 Ave. N.W. Site is on the west side of 94 St. N.W betweer Dresser-Rand and Daco Industries inc.	6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 6/1/2017	9-41 AM 9-50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 10:48 AM 11:04 AM 1:15 PM 1:19 PM	B Y B Y A Y B Y	18 18 18		18 18 18	Minor Major Major Minor	6	Y IND Y COM Y COM Y PARK Y IND	d N d N d N d N	N	N N N Y N N	N N Y N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 Y 6.0	44.0 NO BIN 2.0 NO BIN 14.0 Beside bus stop 7.0 Beside bus stop 13.0 NO BIN 5.0 NO BIN	Curb 2 Curb 2 Curb 1 Curb 1 Curb-Grass Line 1 Curb 1	25.879 N 53*31.65 W113* 23.641 N 53*30.406 W113* 22.105 N 53*79.191 W113* 25.554 N 53*78.92 W113* 25.039 N 53*7.223 W113* 25.039 N 53*7.223 W113* 26.158	N 53* 31.604 N 53* 30.406 N 53* 29.191 N 53* 28.922 N 53* 27.223	W113* 23.686 W113* 22.105 W113* 25.554 W113* 25.039	In front of busy Esso truck stop. Lots of through raffic. Lots of small litter. Plorito table beyond industrial building Littler may cone from cars (major road) or closest commercial business is approx 50 ft sway from start of site Fast food locations close by Intersection 23 ave 8.66 St - minimal litter. Mall across the street, lite right along park. Mall approx 200 meters away approx 200 meters away	N N	NA very industrialized area Picnic table behind industrial building Very industrial area, commercial business Soft away Close by strip mall complex Mail 300 m from site, site is	92 m to Esso station Congregation point approx 60 m at picnic table behind industrial building. Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m.	N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the site No cigarette butts found on site More butts found further from intersection every 50 ft along the curb No cigarette butts found
82 92 AVENUE NW 83 70 AVENUE NW 84 ROPER RD NW 85 50 STREET NW 86 23 AVENUE NW	Ave. N.W. Site is west of 34 St. N.W. Site on the north side of 92 Avenue in front of the street from Esso Distribution (9210). Site is no 70 Avenue NN just east of 17 St. N.W. Commending at the corner of 17 St. N.W. and 70 Ave. in front of Precision Coatings & Phydraulics. Site is west of 59 St. N.W. Site on the north side of Roper Rd. N.W. beginning at # 9988 CCT Thermal Technologies. Site is north of 44 Ave. N.W. Site is on the west side of 59 St. N.W. commencing 200' North of 44 Ave. N.W. Site is west of 66 St. N.W. Site is on the north side of 23 Ave. N.W. adjacent to Mill Wood Pk. Site is north of 45 Ave. N.W. Site is on the west side of 95 St. N.W. between	6/1/2017 f 6/1/2017 6/1/2017 6/1/2017 t 5/29/2017	9:41 AM 9:50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 10:48 AM 11:04 AM	B N Y B Y B Y B Y B Y B N N	18 18 18 18	18 18 18	18 18 18 18 18	Minor Major Major Minor Minor	6	Y IND Y IND Y COM Y COM Y PARR	d N d N d N d N	N	N N N N N N N N	N N Y N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0	44.0 NO BIN 2.0 NO BIN 14.0 Beside bus stop 7.0 Beside bus stop 13.0 NO BIN	Curb 2 Curb 2 Curb 1 Curb 1 Curb-Grass Line 1	25.879 N53*31.626 W113* 23.641 N53*30.406 W113* 25.554 N53*29.191 W113* 25.554 N53*28.922 W113* 25.039 N53*27.223 W113* 26.158 N53*29.015 W113*	N 53* 31.604 N 53* 30.406 N 53* 29.191 N 53* 28.922 N 53* 27.223	W113* 23.686 W113* 22.105 W113* 25.554 W113* 25.039 W113* 26.158	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Picnit table beyond industrial building Litter may come from cars (major read) or dosest commercial business is approx 50 ft away from start of afre Fast food locations close by Intersection 22 aw 66 65 st minimal litter. Mail across the street, site right along park. Mail approx 30 meters away Any litter found was along curb because gratus were present Commercial area, for fronts are approx. 50 ft away, Bus stop and bench are potential area for commercial; area, for fronts are approx. 50 ft away, Bus stop and bench are potential area for commercial; area, for fronts are approx. 50 ft away, Bus stop and bench are potential area for commercial; area, for fronts are approx. 50 ft	N N N	N/A very industrialized area Picnic table behind industrial building Very industrial area, commercial business 50% away Close by strip mall complex Mail 300 nr from site, site is adjacent to a park	92 m to Esso station Congregation point approx 60 m at picnic table behind industrial building Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m. Mall is 300 m from site	N/A N/A N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the site No cigarette butts found on site More butts found further from intersection exposed by 50 talong the curb No cigarette butts found None evident
82 92 AVENUE NW 83 70 AVENUE NW 84 ROPER D NW 85 50 STREET NW 86 23 AVENUE NW 87 94 STREET NW	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Estribution (9210. Site is no 70 Avenue NV just seed of 17 St. NW Commencing at the corne of 17 St. NW Commencing at the corne of 17 St. NW Avenue NV just seed of 17 St. NW Commencing at the corne of 17 St. NW. Site on the north side of Roper Rd. NW beginning at 8 9918 CH. Thermal Technologies. Site is west of 59 St. NW. Site on the west side of 50 St. NW commencing 200' North of 44 Ave. NW. Site is north of 44 Ave. NW. Site is on the west side of 23 Ave. NW adjacent to Mill Wood Pk. Site is west of 66 St. NW. Site is on the west side of 93 St. NW between Diverser-Park and Pk. NW. Site is north of 45 Ave. NW. Site is not the north side of 93 St. NW between Diverser-Park and and Dazo Industries Inc. Site is north of 45 Ave. NW. Site is on the west side of 93 St. NW. Site is north of 45 Ave. NW. NW. Site is not the west side of 93 St. NW. Site is north of 45 Ave. NW. NW. Site is not the east side of 99 St. NW.	6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 6/1/2017	9-41 AM 9-50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 10:48 AM 11:04 AM 1:15 PM 1:19 PM	B N Y B Y A Y B N A N	18 18 18 18	18 18 18	18 18 18 18 18	Minor Major Major Minor Minor Major	2 6 3 2 4 4 2 4 4	Y IND Y COM Y COM Y PARK Y IND	d	N	N N N N N N N N	N N N N N N N N N N N N N N N N N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 Y 6.0	44.0 NO BIN 2.0 NO BIN 14.0 Beside bus stop 7.0 Beside bus stop 13.0 NO BIN 5.0 NO BIN	Curb 2 Curb 2 Curb 1 Curb 1 Curb-Grass Line 1 Curb 1	25.879 N 53" 31.626 W113" 23.641 N 53" 30.406 W113" 22.105 N 53" 29.191 W113" 25.554 N 53" 28.922 W113" 26.158 N 53" 27.223 W113" 26.158 N 53" 29.015 W113" 28.800 N 53" 28.964 W113"	N 53* 31.604 N 53* 30.406 N 53* 29.191 N 53* 28.922 N 53* 27.223	W113* 23.886 W113* 22.105 W113* 25.554 W113* 25.039 W113* 26.158 W113* 28.380	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Picnit table beyond industrial building Litter may come from cars (major road) or dosest commercial business is approx 50 ft away from start of afte Fast food locations close by Intersection 22 we 8 66 St minimal litter. Mail across the street, site right along park. Mail approx 300 meters away Any litter found was along curb because grass was being cut and mathanied with lead was being cut and mathanied with lead to commercial - was core fronts are approx. 50 ft Commercial - was core fronts are approx. 50 ft	N N N	5 N/A very industrialized area 5 Picnic table behind industrial building 5 Very industrial area, commercial business 50th away 5 Close by strip mail complex 5 Mail 300 m from site, site is adjacent to a pax 5 N/A very industrial area	92 m to Esso station Congregation point approx 60 m at principate behind industrial building commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m Mall is 300 m from site.	N/A N/A N/A N/A N/A N/A N/A Several cigarette butts at the coner of 102 Are and 19 Ave, picture taken. Flextue taken of picture taken. Flextue taken of the coner of 102 Are and 19 Ave, picture taken.	Cigarettes were not found anywhere on the site of the control of t
82 92 AVENUE NW 83 70 AVENUE NW 84 ROPER DINW 85 50 STREET NW 86 23 AVENUE NW 87 94 STREET NW 88 99 STREET NW	Ave. NW. Site is west of 34 St. NW. Site on the north side of \$2 Avenue is in front of the street from Esso Estribution (\$9210. Site is no 70 Avenue NV just seat of 1.75 s. NW Commencing at the corne of 1.7 St. NW and 70 Ave. in front of Precision Coatings & Hydraulic. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at 8 9918 CH. Thermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is north of 45 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is west of 66 St. NW. Site is on the west side of 93 St. NW between the NW. Site is north of 45 Ave. NW. Site is on the west side of 93 St. NW between the NW. Site is north of 45 Ave. NW. Site is on the west side of 99 St., NW commencing at house # 4.505 just north of the bus stop. Site is north of 45 Ave. NW. Site on the east side of 99 St., NW commencing at house # 4.505 just north of the bus stop. Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW. Site is north side of 10 Ave. NW.	6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 6/1/2017 5/29/2017	9:41 AM 9:50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 10:48 AM 11:04 AM 1:15 PM 1:19 PM 1:02 PM 1:06 PM	B N Y B Y A Y B N N A N	18 18 18 18 18 18 18 6	18 18 18	18 18 18 18 18 18 18 6	Minor Major Major Minor Major Minor Major Minor	2 6 3 2 4 4 2 4 4	Y IND Y COM Y COM Y PARK Y IND Y COM	d N d N	N	N N Y N N N N N N N N N Y N Y	N N N N N N N N N N N Y Y	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 Y 6.0 N 0.0	44.0 NO BIN 2.0 NO BIN 14.0 Beside bus stop 7.0 Beside bus stop 13.0 NO BIN 5.0 NO BIN 0.0 Beside bus stop (3	Curb 2 Curb 1 Curb 1 Curb-Grass Line 1 Curb 1 Curb 1 Fence-Curb-Grass 1	25.879 1.53*13.65 W113* 2.2.641 N.53*13.06 W113* 2.2.105 N.53*2.9.191 W113* 2.5.54 N.53*2.8.922 W113* 2.5.599 N.53*2.7.222 W113* 2.6.158 N.53*2.8.964 W113* 2.9.160 N.53*2.8.964 W113* 2.9.160 N.53*2.8.964 W113* 2.9.17 N.53*2.7.909 W113*	N 53* 31.604 N 53* 30.406 N 53* 29.191 N 53* 28.922 N 53* 27.223 N 53* 29.015	W113* 23.686 W113* 22.105 W113* 25.554 W113* 25.039 W113* 26.158 W113* 28.380	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Picnit table beyond industrial building Litter may come from cars (major road) or dosest commercial business is approx 50 ft away from start of alre Fast food locations close by interaction 22 away from start of alre approx 200 meters away Any litter found was along curb because grass were present Commercial years, stop fronts are approx. 50 ft away, Bus stop and bench are potential area for compregation. Construction taking place diagonal to the start Condition to the place diagonal to the start Condition taking place diagonal to the start Condition taking place diagonal to the start Condition taking place diagonal to the start Could be source for some blowing litter. Tim	N N N	5 N/A very industrial zed area 5 Picnic table behind industrial building 5 Very industrial area, commercial business 50fs away 5 Close by strip mall complex 5 Mail 300 m from site, site is adjacent to a part 5 N/A very industrial area 5 N/A 6 Many shopping centers, bus stop	92 m to Esso station Congregation point approx 60 m at princt table behind industrial building Commercial business 15 m from start of site Tim Horton's is about 92 m from start of site, some fast food within 30 m from site Mall is 300 m from site	N/A N/A N/A N/A N/A N/A N/A Several cigarette butts at the corner of 1012 Ave and 19 Ave,	Cigarettes were not found anywhere on the site of the control of t
82 92 AVENUE NW 83 70 AVENUE NW 84 ROPER RD NW 85 50 STREET NW 86 23 AVENUE NW 87 94 STREET NW 88 99 STREET NW 89 19 AVENUE NW	Ave. N.W. Site is west of 34 St. N.W. Site on the north side of 92 Avenue in front of the street from Esso Estribution (9210). Site is no 70 Avenue NN just east of 175 St. N.W. Commending at the correct of 17 St. N.W. and 70 Ave. in front of Precision Coatings & Hydraulics. Site is west of 59 St. N.W. Site on the north side of Roper Rd. N.W. beginning at # 9918 CCT Thermal Technologies. Site is west of 59 St. N.W. Site is on the north side of 50 St. N.W. commencing 200 North of 44 Ave. N.W. Site is north of 44 Ave. N.W. Site is on the west side of 50 St. N.W. Site is west of 66 St. N.W. Site is on the north side of 23 Ave. N.W. adjacent to MIII Wood Pk. Site is north of 45 Ave. N.W. Site is on the west side of 94 St. N.W. between Dresser-Rand and Daco Industries inc. Site is north of 45 Ave. N.W. Site is on the east side of 99 St., N.W. commencing at house # 3-650 just north of the bus stop. Site just east of Gateway Boulevard NW on the north side of 19 Ave. N.W. across from Tim Horton's. Site is west of 108 St. N.W. Site on north side of 33 Ave. N.W. commencing at house # 10808.	6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 6/1/2017 5/29/2017	9:41 AM 9:50 AM 10:00 AM 10:00 AM 10:05 AM 11:28 PM 11:37 PM 11:44 PM 11:52 PM 10:48 AM 11:04 AM 11:59 PM 11:09 PM 11:09 PM 11:09 PM 11:04 AM 11:24 AM 11:24 AM 11:44 AM	B N Y B Y B N N A N	18 18 18 18 18 18 18 18 18 18 18 18 18 1	18 18 18 18 18 6 18 18	18 18 18 18 18 18 18 18 15 18 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Minor Major Major Minor Minor Minor Major Minor Major Minor Major	2 6 3 2 4 4 2 4 4	Y IND Y COM Y COM Y COM Y PARK Y IND Y COM Y COM	d N d N	N N N N N N N N N N N N N N N N N N N	N N Y N N N N N N N N N Y N Y	N N N N N N N N N N N Y Y	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 Y 6.0 N 0.0	44.0 NO BIN 2.0 NO BIN 14.0 Beside bus stop 7.0 Beside bus stop 13.0 NO BIN 5.0 NO BIN 0.0 Beside bus stop (3 17.0 Beside bus stop	Curb 2 Curb 1 Curb 1 Curb-Grass Line 1 Curb 1 Curb 1 Fence-Curb-Grass 2	25.879 N 53"31.65 W113" 23.641 N 53"30.60 W113" 22.105 N 53"29.591 N 53"27.239 W113" 25.039 N 53"27.239 W113" 28.380 N 53"28.964 W113" 29.377 N 53"27.999 W113" N 53"27.999 W113"	N 53' 31.604 N 53' 30.406 N 53' 29.191 N 53' 28.922 N 53' 27.223 N 53' 29.015 N 53' 28.964	W113* 23.685 W113* 22.105 W113* 25.554 W113* 25.554 W113* 26.158 W113* 26.158 W113* 29.160 W113* 29.377	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Plical to take depend industrial building litter may come from cars (major road) or dosest commercial business is approx 50 ft away from start of site ways from start of site part of site	N N N N N N N N	N/A very industrialized area Picnic table behind industrial building Very industrial area commercial business 50f away Close by strip mall complex Mail 300 m from site, site is adjacent to a part N/A very industrial area N/A Many shopping centers, bus stop with inter bin.	92 m to Esso station Congregation point approx. 60 m at princt table behind industrial building Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m Mall is 300 m from site. N/A Store fronts are approx 15 m away.	N/A N/A N/A N/A N/A N/A N/A Several cigarette butts at the corner of 102 Ave and 19 Ave, picture taken. *Picture taken of hub cap on the side of a fence. N/A	Cigarettes were not found anywhere on the site of the control of t
82 92 AVENUE NW 83 70 AVENUE NW 84 ROPER RD NW 85 50 STREET NW 86 23 AVENUE NW 87 94 STREET NW 88 99 STREET NW 89 19 AVENUE NW	Ave. NW. Site is west of 34 St. NW. Site on the north side of \$2 Avenue is in front of the street from Esso Estribution (\$9210. Site is no 70 Avenue NV just seat of 1.75 s. NW Commencing at the corne of 1.7 St. NW and 70 Ave. in front of Precision Coatings & Hydraulic. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at 8 9918 CH. Thermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is north of 45 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is west of 66 St. NW. Site is on the west side of 93 St. NW between the NW. Site is north of 45 Ave. NW. Site is on the west side of 93 St. NW between the NW. Site is north of 45 Ave. NW. Site is on the west side of 99 St., NW commencing at house # 4.505 just north of the bus stop. Site is north of 45 Ave. NW. Site on the east side of 99 St., NW commencing at house # 4.505 just north of the bus stop. Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW. Site is north side of 10 Ave. NW.	6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 6/1/2017 5/29/2017	9:41 AM 9:50 AM 10:00 AM 10:00 AM 10:05 AM 11:28 PM 11:37 PM 11:44 PM 11:52 PM 10:48 AM 11:04 AM 11:59 PM 11:09 PM 11:09 PM 11:09 PM 11:04 AM 11:24 AM 11:24 AM 11:44 AM	B N Y B Y A Y B N A N A N A Y	18 18 18 18 18 18 18 18 18 18 18 18 18 1	18 18 18 18 18 6 18 18	18 18 18 18 18 18 18 18 15 18 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Minor Major Major Minor Minor Minor Major Minor Major Minor Major	2 6 3 2 2 4 4 2 2 4 4 2 2 1 4 4 2 2 1 1 1 1 1	Y IND Y COM Y COM Y COM Y PARK Y IND Y COM Y COM	d	N	N N Y N N N N N N N N N Y N Y	N N N N N N Y Y N N N N N N N N N N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 Y 6.0 N 0.0	44.0 NO BIN 2.0 NO BIN 14.0 Beside bus stop 7.0 Beside bus stop 13.0 NO BIN 5.0 NO BIN 0.0 Beside bus stop (3 17.0 Beside bus stop	Curb 2 Curb 1 Curb 1 Curb-Grass Line 1 Curb 1 Curb 1 Fence-Curb-Grass 2	25.879 1.53*13.65 W113* 2.2.641 N.53*13.06 W113* 2.2.105 N.53*2.9.191 W113* 2.5.54 N.53*2.8.922 W113* 2.5.599 N.53*2.7.222 W113* 2.6.158 N.53*2.8.964 W113* 2.9.160 N.53*2.8.964 W113* 2.9.160 N.53*2.8.964 W113* 2.9.17 N.53*2.7.909 W113*	N 53' 31.604 N 53' 30.406 N 53' 29.191 N 53' 28.922 N 53' 27.223 N 53' 29.015 N 53' 28.964	W113* 23.685 W113* 22.105 W113* 25.554 W113* 25.554 W113* 26.158 W113* 26.158 W113* 29.160 W113* 29.377	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Plical to take depend industrial building litter may come from cars (major road) or dosest commercial business is approx 50 ft away from start of site ways from start of site part of site	N N N N N N N N	N/A very industrialized area Picnic table behind industrial building Very industrial area commercial business 50f away Close by strip mall complex Mail 300 m from site, site is adjacent to a part N/A very industrial area N/A Many shopping centers, bus stop with inter bin.	92 m to Esso station Congregation point approx. 60 m at princt table behind industrial building Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m Mall is 300 m from site. N/A Store fronts are approx 15 m away.	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the site of the
82 92 AVENUE NW 83 70 AVENUE NW 84 ROPER RD NW 85 50 STREET NW 86 23 AVENUE NW 87 94 STREET NW 88 99 STREET NW 89 19 AVENUE NW 90 33 AVENUE NW	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Exo Birthbution (9210). Site is no 70 Avenue NV just east of 17 St. NW. Commencing at the corne of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at 8 9518 CT Fermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is west of 66 St. NW. Site is on the west side of 23 Ave. NW adjacent to Mill Wood Pk. Site is north of 45 Ave. NW. Site is on the west side of 94 St. NW between Dresser-Rand and Dato Industries inc. Site is north of 45 Ave. NW. Site is on the west side of 94 St. NW between Dresser-Rand and Dato Industries inc. Site is north of 45 Ave. NW. Site is on the act side of 95 St., NW. Commencing at house 8 4505 just north of the bus stop. Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW across from Tim Norton's. Site is west of 108 St. NW. Site on north side of 131 Ave. NW commencing at house # 1000c. Site is north of 40 Ave. NW. Site on west side of 1111 St. NW. Site moved due to construction.	6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/20/2017 6/1/2017 5/20/2017 5/20/2017	9:41 AM 9:50 AM 10:00 AM 10:00 AM 10:05 AM 10:05 AM 11:28 PM 11:37 PM 11:44 PM 11:52 PM 11:04 AM 11:15 PM 11:19 PM 11:02 PM 11:04 AM 11:24 AM 11:24 AM 11:24 AM 11:24 AM 11:24 AM 11:24 AM 11:25 PM		18 18 18 18 18 18 18 18 7	18 18 18 18 18 6 6 18 6.5	18 18 18 18 18 18 18 18 15 18 15 18 18 15 18 16 16 16 16 16 16 16 16 16 16 16 16 16	Minor Major Major Major Minor Major Minor Major Minor Major Minor	2 6 3 2 2 4 4 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Y IND Y COM Y COM Y PARR Y IND Y COM Y COM N RES	d N d N		N N Y N N N N N N N N N N N N N Y N Y	N N N N N N N N Y Y N N Y Y	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 Y 6.0 N 0.0 N 24.0 N 1.0	44.0 NO BIN 2.0 NO BIN 14.0 Beside bus stop 7.0 Beside bus stop 13.0 NO BIN 5.0 NO BIN 6.0 Beside bus stop (3 17.0 Beside bus stop (3 17.0 Beside bus stop (3	Curb 2 Curb 1 Curb 1 Curb-Grass Line 1 Curb 1 Curb 1 Fence-Curb-Grass Line 1 Curb-Grass Line 1	75.879 N 53" 31.66 W113" 23.641 N 53" 30.60 W113" 22.105 N 53" 29.191 W113" 25.539 N 53" 28.922 W113" 26.138 N 53" 28.921 W113" 26.158 N 53" 28.901 W113" 27.109 W113" 28.180 N 53" 28.901 W113"	N 53' 31.604 N 53' 30.406 N 53' 29.191 N 53' 28.922 N 53' 27.223 N 53' 27.223 N 53' 27.6816 N 53' 28.964	W113* 23.685 W113* 22.105 W113* 25.554 W113* 25.554 W113* 26.158 W113* 26.158 W113* 29.160 W113* 29.377 W113* 29.377	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Picnt table beyond industrial building United the properties of the prope	N N N N N N N N N N N N N N N N N N N	S N/A very industrialized area Picnic table behind industrial building Very industrial area, commercial business SOft away Close by strip mail complex Mail 300 m from site, site is adjacent to a park N/A very industrial area N/A wery industrial area N/A Many shopping centers, bus stop with litter bin. None evident Intersection, near a mail Bus stop and high school within	92 m to Esso station Congregation point approx 60 m at principate the behind industrial building Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m Mall is 300 m from site. N/A Store fronts are approx 15 m away. N/A	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the size No cigarette butts found on site No cigarette butts found on site More butts found further from intersection every 50 ft along the curb No cigarette butts found None evident No cigarette butts were found No cigarette butts were found N/A No notable amounts of cigarette butts with No cigarette butts were found No notable amounts of cigarette butts evident No notable camounts of cigarette butts evident No cigarette Dutts evident No cigarette Dutts evident No cigarette Dutts evident No cigarette Dutts evident No cigarette No cigarette Dutts evident No cigarette Dutts evident No cigarette Du
### 82 92 AVENUE NW ### 83 70 AVENUE NW ### 84 ROPER RD NW ### 85 50 STREET NW ### 86 23 AVENUE NW ### 87 94 STREET NW ### 88 99 STREET NW ### 89 19 AVENUE NW ### 90 33 AVENUE NW ### 91 111 STREET NW ### 92 114 STREET NW	Ave. NW. Site is west of 34 St. NW. Site on the north side of \$2 Avenue is in front of the street from Esso Estribution 89210. Site is no 70 Avenue NV just seat of 17 St. NW Commencing at the corne of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulic. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at 8 938 EAC Thermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is west of 66 St. NW. Site is on the west side of 23 Ave. NW adjacent to Mill Wood Pk. Site is north of 45 Ave. NW. Site is on the west side of 98 St. NW between Experimental Commencing at Nove Rd. Site is north of 45 Ave. NW. Site is north of 45 Ave. NW. Site on the west side of 99 St. NW commencing at house # 4.050 just north of the bus stop. Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW across from Tim Horton's. Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW. Site is north of 40 Ave. NW. Site on when side of 33 Ave. NW commencing at house # 1.000%. Site is north of 40 Ave. NW. Site on the west side of 111 St. NW. Site nowed due to construction. Site is north of 40 Ave. NW. Site on the west side of 114 St. NW commencing at Ave. NW. Site on the west side of 114 St. NW commencing at Ave. NW at house # 8204. Site is south of 42 Ave. NW. Site on the west side of 114 St. NW commencing at Ave. NW at house # 8205.	6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 6/1/2017 5/29/2017 5/29/2017 5/29/2017	9:41 AM 9:50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 10:48 AM 11:04 AM 1:15 PM 1:06 PM 1:02 PM 1:06 PM 11:24 AM 11:44 AM 11:54 AM 12:05 PM 1:48 PM 2:02 PM 2:09 PM 2:15 PM		18 18 18 18 18 18 18 18 18 18 18 18 18 1	18 18 18 18 6 6 18 65 18 7	18 18 18 18 18 18 18 18 18 18 18 18 18 1	Minor Major Major Minor Major Minor Major Minor Major Minor Minor Minor Minor	2 6 3 2 4 4 2 2 4 4 2 2 4 4 4 2 2 4 4 4 4 4	Y IND Y COM Y COM Y PARK Y IND Y COM Y COM Y COM N RES N RES	d	N Y N	N N Y N N N N N N N N N N N Y N Y N Y N	N N N N N N N N N N N Y Y N N Y Y N N Y Y N N Y Y N N Y Y N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 V 6.0 N 24.0 N 1.0 N 1.0	44.0 NO BIN 2.0 NO BIN 14.0 Beside bus stop 7.0 Beside bus stop 13.0 NO BIN 5.0 NO BIN 0.0 Beside bus stop (3 17.0 Beside bus stop (3 17.0 Beside bus stop 0.0 NO BIN 5.0 NO BIN 1.0 Beside School	Curb 2 Curb 1 Curb 1 Curb-Grass Line 1 Curb 1 Curb 1 Fence-Curb-Grass 2 Curb-Grass Line 1 Curb-Grass Line 1 Curb-Grass Line 1 Curb-Grass Line 1	25.879 N 53" 31.65 W113" 22.1641 N 53" 30.60 W113" 22.105 N 53" 22.919 W113" 25.554 N 53" 28.922 W113" 26.158 N 53" 28.922 W113" 26.158 N 53" 28.924 W113" 29.160 N 53" 28.964 W113" 29.160 N 53" 28.964 W113" 30.558 N 53" 28.964 W113" N 53" 28.790 W113"	N 53' 31.604 N 53' 30.406 N 53' 29.191 N 53' 28.922 N 53' 27.223 N 53' 27.223 N 53' 27.229 N 53' 28.664 N 53' 28.664 N 53' 28.6709	W113* 23.686 W113* 22.105 W113* 25.554 W113* 25.554 W113* 26.158 W113* 26.158 W113* 29.160 W113* 29.377 W113* 30.558 W113* 31.014	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Ploric table beyond industrial building Litter may come from cars (major road) or dissert commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial award t	N N N N N N N N N N N N N N N N N N N	S N/A very industrialized area Picnic table behind industrial building Very industrial reac commercial business SOI away Close by strip mail complex Mail 300 on from site, site is adjacent to a park N/A very industrial area N/A very industrial area N/A very industrial area N/A very industrial area N/A sery industrial area Industrial interest in None evident Interest in None evident Bus stop and high school within 300 m of site.	92 m to Esso station Congregation point approx. 65 m at principation behind industrial building. Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m. Mall is 300 m from site. N/A Store fronts are approx 15 m away. N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the size No cigarette butts found on site More butts found on site More butts found on site intersection every 50 ft along the cut No cigarette butts found None evident No cigarette butts were found No cigarette butts were found N/A No notable amounts of cigarette butts. No cigarette butts evident Collegarette butts evident Collegarette butts evident Collegarette butts evident Collegarette butts Collegarette butts Collegarette butts Collegarette butts Collegarette courb along site Likely to be from people falling timen from their whickes. Approximately 1 every 6 ft along curb. No evident cigarette butts.
82 92 AVENUE NW 83 70 AVENUE NW 84 ROPER RD NW 85 50 STREET NW 86 23 AVENUE NW 87 94 STREET NW 88 99 STREET NW 89 19 AVENUE NW 90 33 AVENUE NW 91 111 STREET NW 92 114 STREET NW 93 35 AVENUE NW 93 35 AVENUE NW	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Estribution 89210. Site is no 70 Avenue NV just east of 1.75 s. NW commencing at the corne of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginging at 8 9918 CF. Thermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200' North of 44 Ave. NW. Site is north of 44 Ave. NW. Site is on the west side of 23 Ave. NW adjacent to Mill Wood Pic. Site is west of 66 St. NW. Site is on the north side of 23 Ave. NW adjacent to Mill Wood Pic. Site is north of 45 Ave. NW. Site is on the west side of 99 St. NW between Dresser-Rand and Dazo Industries inc. Site is north of 45 Ave. NW. Site is on the west side of 99 St. NW commencing at house # 4.505 just north of the bus stop. Site is north of 45 Ave. NW. Site on the east side of 99 St., NW commencing at house # 4.505 just north of the bus stop. Site is north of 40 Ave. NW. Site on the west side of 119 Ave. NW. Site is north of 40 Ave. NW. Site on onth side of 33 Ave. NW commencing at house # 1.0008. Site is north of 40 Ave. NW. Site on the west side of 111 St. NW. Site north of 40 Ave. NW. Site on the west side of 111 St. NW. Site is north of 40 Ave. NW. Site on the west side of 114 St. NW commencing at Ave. NW. Site on the west side of 116 St. NW. Site is north of 42 Ave. NW. Site on the west side of 116 St. NW. Site is north of 42 Ave. NW. Site on the west side of 118 St. NW commencing at 114 St. NW in parkland.	6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/25/2017 6/1/2017 5/25/2017 5/25/2017 5/25/2017 5/25/2017 5/25/2017	9-41 AM 9-50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 10:48 AM 11:04 AM 1:15 PM 1:19 PM 1:02 PM 1:06 PM 1:124 AM 11:44 AM 11:54 AM 12:05 PM 1:48 PM 2:02 PM 2:09 PM 2:15 PM		18 18 18 18 18 18 18 18 18 18 18 18 18 1	18 18 18 18 18 6 6 18 65 18 18 18 18 18 18 18 18 18 18 18 18 18	18 18 18 18 18 18 18 18 18 18 18 18 16.5 16.5 18 18 18	Minor Major Major Minor Minor Minor Minor Minor Minor Major Minor Minor Minor Minor Minor	2 6 3 2 4 4 2 4 4 2 2 2 2 2 2 2	Y IND Y COM Y COM Y PARK Y IND Y COM Y COM N RES N RES N RES N RES	d N d	N Y N N Y Y	N N Y N N N N N N N N N N N Y N N Y N N Y N N Y	N N N N N N N N N N N N N N N N N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 V 6.0 N 24.0 N 1.0 N 1.0 N 1.0 N 1.0 N 1.0 N 1.0	44.0 NO BIN	Curb 2 Curb 2 Curb 1 Curb 1 Curb Grass Line 1 Curb 1 Curb 1 Fence-Curb-Grass Line 2 Curb-Grass Line 1	25.879 3.2641 N 53*31.668 W113* 22.105 N 53*22.9191 W113* 25.54 N 53*28.922 W113* 25.54 N 53*28.922 W113* 26.158 N 53*28.921 W113* 26.158 N 53*28.964 W113* 29.160 N 53*28.964 W113* 30.558 N 53*28.964 W113* 30.558 N 53*28.972 W113* 30.558 N 53*28.972 W113* 31.144 N 53*28.972 W113* 31.144	N 53' 31.604 N 53' 30.406 N 53' 29.191 N 53' 28.922 N 53' 27.223 N 53' 27.223 N 53' 27.005 N 53' 28.964 N 53' 28.964 N 53' 28.964	W113' 23.686 W113' 22.105 W113' 22.105 W113' 25.554 W113' 25.554 W113' 26.158 W113' 26.158 W113' 29.160 W113' 31.014 W113' 31.686	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Plant to take of small litter. Plant to take be pound industrial building. Litter may come from cars (major road) or dosest commercial business is approx 50 ft and the stop of the stop o	N N N N N N N N N N N N N N N N N N N	S N/A very industrialized area Picnic table behind industrial building Very industrial reac commercial business Soft away Close by strip mall complex Mail 300 m from site, site is adjacent to a park N/A very industrial area N/A very industrial area N/A Many shopping centers, bus stop with litter bin. None evident Intersection, near a mail Bus stop and high school within 300 m of site. Park usage, sidewalks	92 m to Esso station Congregation point approx 65 m at picnic table behind industrial building Commercial business 15 m from start of site Tim Horton's is about 92 m from start of site, some fast food within 30 m Mall is 300 m from site N/A Store fronts are approx 15 m away. N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the size No cigarette butts found on site More butts found under site More butts found further from intersection every 50 ft along the cuty No cigarette butts found None evident No cigarette butts were found No cigarette butts were found No cigarette butts were found No notable amounts of cigarette butts. No cigarette butts evident Noticed scattered cigarette butts does to curb along site. Likely to be from people fiscing them from their vehicles. Approximately 1 every 61 along curb. No evident cigarette butts.
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Commencing at house 8 4505 just north of the bus stop. Site is set of Gateway Boulevard NW on the north side of 19 Ave. NW across from Tim Horton's. Site is west of 108 St. NW. Site on north side of 313 Ave. NW commencing at house 8 4505 just north of the bus stop. Site is set of 108 St. NW. Site on the west side of 111 St. NW. Site moved due to construction. Site is set of 113 St. NW across from house 8 11347. Site on north side of 35 Avenue commencing at 145 St. NW in parkind. Site is set of 113 St. NW across from house 8 11347. Site on north side of 35 Avenue commencing at 145 St. NW in parkind. Site is set of 113 and west of 114 St. NW. Site on the south side of 35 Avenue commencing at 145 St. NW in parkind. Site is set of Challer Hill Rd NW. Site on east side of Otchenden Pake NW.	6/1/2017 6/1/2017 6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017	9:41 AM 9:50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 10:48 AM 11:04 AM 1:15 PM 1:19 PM 1:02 PM 1:06 PM 11:24 AM 11:44 AM 11:54 AM 12:05 PM 1:48 PM 2:02 PM 1:48 PM 2:02 PM 1:48 PM 12:34 PM 12:42 PM 12:34 PM		18 18 18 18 18 18 18 18 18 18 18 18 18 1	18 18 18 18 18 6 6 18 18 6.5 1	18 18 18 18 18 18 18 6 5 16.5 18 18 18 18 18 18 18 18 18 18 18 18 18	Minor Major Major Major Minor Major Minor Major Minor Minor Minor Minor Minor	2 6 3 3 2 4 4 2 4 4 2 2 4 4 2 2 2 2 2 2 2 2	Y IND Y COM Y COM Y PARR Y IND Y COM Y COM N RES N RES N RES N RES	d N d N	N Y N	N N Y N N N N N N N N N N Y N N Y N N N N Y	N N N N N N N N N N N N N N N N N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 Y 6.0 N 24.0 N 1.0 N 1.0 N 1.0 N 1.0 N 1.0 N 1.0	44.0 NO BIN 2.0 NO BIN 14.0 Beside bus stop 7.0 Beside bus stop 13.0 NO BIN 5.0 NO BIN 5.0 NO BIN 5.0 NO BIN 17.0 Beside bus stop (3 17.0 Beside bus stop 1.0 NO BIN 5.0 NO BIN 5.0 NO BIN 5.0 NO BIN 5.0 NO BIN 6.0 NO BIN	Curb 2 Curb 2 Curb 1 Curb 1 Curb-Grass Line 1 Curb 1 Curb 1 Fence-Curb-Grass 2 Curb-Grass Line 1	25.879 N 53" 31.65 W113" 22.1641 N 53" 30.60 W113" 22.105 N 53" 22.919 W113" 25.554 N 53" 28.922 W113" 26.158 N 53" 28.922 W113" 26.158 N 53" 28.924 W113" 29.160 N 53" 28.964 W113" 29.160 N 53" 28.964 W113" 30.558 N 53" 28.964 W113" N 53" 28.790 W113"	N 53' 31.604 N 53' 30.406 N 53' 20.406 N 53' 20.191 N 53' 20.191 N 53' 20.191 N 53' 20.15	W113* 23.685 W113* 22.105 W113* 25.554 W113* 25.554 W113* 26.158 W113* 26.158 W113* 29.160 W113* 29.377 W113* 30.558 W113* 31.696 W113* 31.696 W113* 31.696	In front of busy Esso truck stop. Lots of through traffic. Lots of small litter. Ploric table beyond industrial building Litter may come from cars (major road) or dissert commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial business is approx 50 ft award to the commercial award t	N N N N N N N N N N N N N N N N N N N	S N/A very industrialized area Picnic table behind industrial building Very industrial area commercial business Soft awary Close by strip mail complex Mail 300 m from site, site is adjacent to a jaw. N/A very industrial area N/A Many shopping centers, bus stop with litter bin. None evident Intersection, near a mail Bus stop and high school within 300 m of site. Park across the street could lead to None evident None evident	92 m to Esso station Congregation point approx 60 m at principal cable behind industrial building Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m Mall is 300 m from site. N/A Store fronts are approx 15 m away. N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the size No cigarette butts found on site More butts found on site More butts found on site intersection every 50 ft along the cut No cigarette butts found None evident No cigarette butts were found No cigarette butts were found N/A No notable amounts of cigarette butts. No cigarette butts evident Collegarette butts evident Collegarette butts evident Collegarette butts evident Collegarette butts Collegarette butts Collegarette butts Collegarette butts Collegarette courb along site Likely to be from people falling timen from their whickes. Approximately 1 every 6 ft along curb. No evident cigarette butts.
### 82	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue is in front of the street from Esso Estribution 89210. Site is no 70 Avenue NW just east of 17 St. NW Commencing at the corne of 17 St. NW and 70 Ave. In front of Precision Coatings & Hydraulics. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at 8 9318 CCT Thermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is west of 66 St. NW. Site is on the west side of 93 St. NW between the NW. Site is north of 45 Ave. NW. Site on the west side of 99 St., NW commencing at Nouse # 4305 just north of the bus stop. Site is north of 45 Ave. NW. Site on the east side of 99 St., NW commencing at Nouse # 3005 just north of the bus stop. Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW. Site is north of 40 Ave. NW. Site on the north side of 11 Ave. NW. Site is north of 40 Ave. NW. Site on the west side of 111 St. NW. Site is north of 40 Ave. NW. Site on the west side of 1114 St. NW. Site is north of 42 Ave. NW. Site on the west side of 1114 St. NW. Site is south of 42 Ave. NW. Site on the west side of 114 St. NW. Site is south of 42 Ave. NW. Site on the west side of 114 St. NW. Site is south of 42 Ave. NW. Site on the west side of 114 St. NW. NW. In parkland. Site is set of 115 and west of 114 St. NW. Site on the south side of 32 Ave. NW commencing at 114 St. NW. Site on the south side of 32 Ave. NW commencing at 114 St. NW. Site on the south side of 32 Ave. NW commencing at 114 St. NW. Site on the south side of 32 Ave. NW commencing at 114 St. NW. Site on the south side of 32 Ave. NW commencing at 10 NW. Site on the south side of 32 Ave. NW commencing a	6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/1/2017 6/1/2017 5/1/2017 5/1/2017 5/1/2017 5/1/2017 5/1/2017 5/1/2017 5/1/2017 5/1/2017 5/1/2017 5/1/2017 5/1/2017 5/1/2017	9:41 AM 9:50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 10:48 AM 11:04 AM 1:15 PM 1:06 PM 1:02 PM 1:06 PM 11:24 AM 11:44 AM 11:54 AM 12:05 PM 1:48 PM 2:02 PM 2:09 PM 2:15 PM 12:42 PM 12:54 PM 12:15 PM 12:54 PM		18 18 18 18 18 18 6 18 18 6 18 18 6 18 18 18 18 18 18 18 18 18 18 18 18 18	18 18 18 18 18 6 18 7 18 6.5 18	18 18 18 18 18 18 18 18 18 18 18 18 18 1	Minor Major Major Minor Major Minor Minor Major Minor Minor Minor Minor Minor Minor Minor Minor Minor	2 6 3 2 4 4 2 2 4 4 2 2 2 2 2 2 2 2 2 2 1 4 1 1 1 1	Y IND Y COM Y COM Y PARR Y IND Y COM Y COM N RES N RES N RES N RES N RES	d N d N	N Y N N Y N N Y N N N N N	N N N N N N N N N N N N Y N N Y N N N N	N N N N N N N N N N N N N N N N N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 Y 6.0 N 24.0 N 1.0	14.0 NO BIN	Curb 2 Curb 1 Curb 1 Curb 1 Curb-Grass Line 1 Curb 1 Fence-Curb-Grass 2 Curb-Grass Line 1 Curb-Trans Line 1 Curb-Trans Line 1	25.879 N 53" 31.66 W13" 23.641 N 53" 30.60 W13" 22.105 N 53" 29.191 W13" 25.554 N 53" 28.922 W113" 26.138 N 53" 28.922 W13" 26.138 N 53" 28.916	N 53' 31.604 N 53' 30.406 N 53' 29.191 N 53' 28.922 N 53' 27.223 N 53' 27.229 N 53' 28.964 N 53' 28.964 N 53' 28.966 N 53' 28.966 N 53' 28.968 N 53' 28.709	W113* 23.685 W113* 22.105 W113* 25.554 W113* 25.554 W113* 26.158 W113* 26.158 W113* 29.160 W113* 29.160 W113* 31.014 W113* 31.686 W113* 31.686 W113* 31.686	In front of busy Esso truck stop. Lots of through in front of busy Esso truck stop. Lots of through interest in the control of	N N N N N N N N N N N N N N N N N N N	S N/A very industrialized area S Picnic table behind industrial building S Very industrial area commercial business SOft away S Close by strip mail complex S Mail 300 m from site, site is adjacent to a pair. S N/A very industrial area S N/A very industrial area S N/A S Many shopping centers, bus stop with litter bin. S None evident S Intersection, near a mail Bus stop and high school within 300 m of site. S Park usage, sidewalks S None evident Park across the street could lead to more human traffic, and thus more litter.	92 m to Esso station Congregation point approx 60 m at princit cable behind industrial building Commercial business 15 m from start of site Tim Horton's is about 92 m from start of site, some fast food within 30 m Mall is 300 m from site N/A Store fronts are approx 15 m away. N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the No cigarette butts found on site Nor butts found on site Nor butts found on site Nor butts found further from intersection every 50 ft along the Current No cigarette butts found None evident None evident None evident No cigarette butts were found N/A No cigarette butts were found N/A No notable amounts of cigarette butts. No cigarette butts evident Noticed scattered cigarette butts evident Noticed scattered cigarette butts evident Noticed scattered cigarette butts dock to curb along site. Likely to be from people flicking them from their evidence, Approximately 1 every 6 ft along curb. No evident cigarette butts. None evident None evident None evident More cigarette butts found closer to yield sign on corner.
### 82	Ave. NW. Site is west of 34 St. NW. Site on the north side of \$2 Avenue in front of the street from Esso Estribution (\$9210.) Site is no 70 Avenue NV just east of 1.75 s. NW commencing at the corne of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulic. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at 8 938 EG. Thermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is north of 44 Ave. NW. Site is on the west side of 23 Ave. NW adjacent to Mill Wood Pk. Site is west of 66 St. NW. Site is on the west side of 23 Ave. NW adjacent to Mill Wood Pk. Site is north of 45 Ave. NW. Site is on the west side of 93 St. NW between Dresser-Rand and Daco Industries inc. Site is north of 45 Ave. NW. Site is on the west side of 99 St., NW commencing at house # 3505 just north of the bus stop. Site just east of Gateway Roulevard NW on the north side of 19 Ave. NW across from Tim Horton's. Site is west of 108 St. NW. Site on north side of 33 Ave. NW commencing at house # 3505 just north of the bus stop. Site is south of 42 Ave. NW. Site on north side of 33 Ave. NW commencing at house # 11367. Site on orth side of 33 Ave. NW commencing at Nouse # 11367. Site on orth side of 33 Ave. NW commencing at Nouse # 11367. Site on orth side of 33 Avenue commencing at 114 St. NW in parkland. Site is seat of 113 St. Ave. NW. Site on the seat side of 114 St. NW commencing at Nouse # 11367. Site on orth side of 32 Avenue commencing at 114 St. NW in parkland. Site is east of 135 and west of 113 St. NW. Site on the south side of 32 Avenue commencing at fire hydrard # 12916. Just N of CEMING RD - 221. Site on east side of Ockenden Place NW commencing at fire hydrard # 12916. East of Terwillegar Rd. and north of 16 creat side of 6 sites side of 6	6/1/2017 6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017	9:41 AM 9:50 AM 10:00 AM 10:05 AM 11:28 PM 11:37 PM 11:44 PM 11:52 PM 10:48 AM 11:04 AM 11:15 PM 11:06 PM 11:24 AM 11:44 AM 11:54 AM 12:05 PM 11:54 AM 22:02 PM 12:42 PM 22:54 PM 12:42 PM 12:54 PM 12:47 PM 22:54 PM 2:47 PM 22:54 PM 3:30 PM 31:00 PM		18 18 18 18 18 18 18 18 18 18 18 18 18 1	18 18 18 18 18 6 6 18 18 6 6 5 18 18 18 18 18 18 18 18 18 18 18 18 18	18 18 18 18 18 18 18 18 18 18 18 18 18 1	Minor Major Major Major Minor Major Minor Major Minor Minor Minor Minor Minor Minor Minor Minor	2 6 6 3 4 2 4 4 2 2 4 4 4 2 2 2 2 2 2 2 2 2 2	Y IND Y COM Y COM Y PARK Y IND Y COM Y COM Y COM N RES N RES N RES N RES N RES Y RES	d N d N	N Y N N Y Y	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 V 6.0 N 24.0 N 1.0	14-0	Curb 2 Curb 1 Curb 1 Curb Grass Line 1 Curb Tarss Line 1 Curb Grass Line 1 Curb-Grass Line 1	25.879 N 53" 31.66 W113" 22.051 N 53" 20.600 W113" 22.105 N 53" 22.9191 W113" 25.554 N 53" 28.922 W113" 26.158 N 53" 22.915 W113" 26.158 N 53" 28.924 W113" 27.9160 N 53" 28.964 W113" 27.9160 N 53" 28.964 W113" 28.1686 N 53" 28.964 W113" 31.014 N 53" 28.968 W113" 31.014 N 53" 27.987 W113" 31.014 N 53" 27.987 W113" 31.014 N 53" 27.987 W113" 31.014 N 53" 28.968 W113" 31.014	N 53' 31.604 N 53' 30.406 N 53' 29.191 N 53' 28.922 N 53' 27.223 N 53' 27.223 N 53' 27.205 N 53' 28.964 N 53' 27.817 N 53' 28.709	W113* 23.686 W113* 22.105 W113* 25.554 W113* 25.554 W113* 26.158 W113* 26.158 W113* 29.160 W113* 29.160 W113* 31.588 W113* 31.588 W113* 31.588 W113* 31.588	In front of busy Esso truck stop. Lots of through in front of busy Esso truck stop. Lots of small litter. Plorito table beyond industrial building Littler may come from cars (major road) or dosest commercial business is approx 50 ft sway from start of site Fast food locations dose by intersection 23 ave 8.66 St - minimal litter. Mail across the street, site right along park. Mall approx 30 meters away Any little found was along curb because gardson was being out and manistander while support to the street of the street part of the stree	N N N N N N N N N N N N N N N N N N N	S N/A very industrialized area S Picnic table behind industrial building S Very industrial area commercial building S Very industrial area commercial business SOI away S Close by strip mail complex S Mall 300 on from site, site is adjacent to a park S N/A very industrial area Industrial area S N/A very industrial area S N/A very industrial area Industrial area S N/A very industria	92 m to Esso station Congregation point approx. 65 m at princin table behind industrial building. Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m. Mall is 300 m from site. N/A Store fronts are approx 15 m away. 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Lots of through traffic. Lots of small litter. Plorito table beyond industrial building Utter may come from cars (major road) or closest commercial business is approx 50 ft sway from start of site Fast food locations close by intersection 23 ave 8, 66 St - minimal litter. Mail across the street, site right along park. Mail approx 50 meters away and subject of the street, site right along park shall approx 50 meters away was been gut and animatished while auditors was being out and animatished while auditors was being out and animatished while auditors was being out and animatished while auditors away. Bus stop an across from the street park and street and site runs across railway tracks. Residential area N/A Closest intersection clean. No evidence of litter at intersection. Garbage can and benches in park area. No large litter found. Site is very clean Construction and construction vehicles parked along site. N/A N/A N/A	N N N N N N N N N N N N N N N N N N N	S N/A very industrialized area S Picnic table behind industrial building Very industrial rea, commercial business Stift away S Close by strip mail complex S Mail 300 in from site, site is adjacent to a park S N/A very industrial area S N/A very industrial area S N/A very industrial area S N/A wery industrial area S N/A sery industrial area S N/A service state in a s	92 m to Esso station Congregation point approx. 65 m at picnic table behind industrial building. Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m. Mall is 300 m from site N/A Store fronts are approx 15 m away. 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### 82	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Exo Distribution (1921). Site is no 70 Avenue NV just east of 17 St. NW. Commencing at the corne of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW. Site is west of 59 St. NW. Site on the north side of 18 Oper Rd. NW beginning at 8 59 ISE C Thermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is north of 45 Ave. NW. Site is on the west side of 23 Ave. NW adjacent to Mill Wood Pk. Site is north of 45 Ave. NW. Site is on the west side of 94 St. NW between Dresser-Rand and Dato Industries Inic. Site is north of 45 Ave. NW. Site is on the west side of 94 St. NW commencing at Phose 46 AVG5 just north of the bus stop. Site is north of 45 Ave. NW. 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Commercial, area, slove fronts are approx. 50 ft awards, Business and the stop and the commercial area and sent and the commercial area. No evidence of litter at intersection. Garbage can and benches in park area. No large litter found. Site is very clean. Construction and construction vehicles parked along site. N/A N/A N/A Lots of construction and equipment interfered.	N N N N N N N N N N N N N N N N N N N	S	92 m to Esso station Congregation point approx. 65 m at princin table behind industrial building. Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m. Mall is 300 m from site. N/A Store fronts are approx 15 m away. N/A N/A N/A N/A N/A N/A N/A N/	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the size No cigarette butts found on size More butts found on size More butts found on size In the size of t
### 82	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Exo Bistribution (1921). Site is no 70 Avenue NV just east of 17 St. NW. Commencing at the corne of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW. Site is west of 59 St. NW. Site on the north side of 16 Oper Rd. NW beginning at 8 5918 CT Fermal Technology in Commencing 200 North of 44 Ave. NW. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is west of 66 St. NW. Site is on the west side of 23 Ave. NW adjacent to Mill Wood Pk. Site is north of 45 Ave. NW. Site is on the west side of 93 St. NW between Dresser-Rand and Dato Industries Inic. Site is north of 45 Ave. NW. Site is on the west side of 94 St. NW between Dresser-Rand and Dato Industries Inic. Site is north of 45 Ave. NW. Site is on the west side of 95 St. NW. 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NW proceeding north and commencing at 50 and 40 Ave. NW proceeding north and commencing at 50 and 40 Ave. NW proceeding north and commencing at 50 and 4	6/1/2017 6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017	9:41 AM 9:50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 10:48 AM 11:04 AM 1:15 PM 1:09 PM 1:02 PM 1:06 PM 1:24 AM 11:44 AM 11:54 AM 12:05 PM 1:48 PM 2:02 PM 2:09 PM 2:15 PM 12:42 PM 12:54 PM 12:42 PM 12:54 PM 12:15 PM 12:34 PM 2:47 PM 2:54 PM 3:00 PM 3:10 PM 3:15 PM 3:23 PM 3:15 PM 3:23 PM		18 18 18 18 18 18 18 18 18 18 18 18 18 1	18 18 18 18 18 6 6 18 18 18 18 18 18 18 18 18 18 18 18 18	18 18 18 18 18 18 18 18 18 18 18 18 18 1	Minor Major Major Major Minor Major Minor Major Minor	2	Y IND Y COM Y COM Y PARK Y IND Y COM Y COM Y COM N RES N RES N RES N RES Y RES N RES Y RES Y RES N RES Y RES N RES	d N N N N N N N N N	N Y N N Y N N Y N N N N N N N N Y N N Y Y N Y Y	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 V 6.0 N 24.0 N 1.0 N 1.0 N 2.0 N 1.0 N 1.0 N 1.0 N 1.0 N 1.0 N 1.0 N 0.0	14.0 NO BIN	Curb 2 Curb 1 Curb 1 Curb Grass Line 1 Curb Tarss Line 1 Curb Grass Line 1 Curb Grass Line 1 Curb-Grass Line 1	25.879 N 53" 32.65 W113" 22.105 N 53" 22.005 W113" 22.105 N 53" 22.9191 W113" 25.54 N 53" 28.922 W113" 26.158 N 53" 28.922 W113" 28.159 N 53" 28.924 W113" 29.160 N 53" 28.964 W113" 30.558 N 53" 28.27 W113" 31.014 N 53" 28.77 W113" 31.014 N 53" 28.77 W113" 31.014 N 53" 28.878 W113" N 53" 28.868 W113" 38.865	N 53' 31.604 N 53' 30.406 N 53' 30.406 N 53' 29.191 N 53' 28.922 N 53' 28.922 N 53' 28.964 N 53' 28.964 N 53' 28.964 N 53' 28.964 N 53' 28.968 N 53' 27.877 N 53' 28.799 N 53' 28.799 N 53' 28.799 N 53' 28.8877 N 53' 28.888	W113* 23.685 W113* 22.105 W113* 25.554 W113* 25.554 W113* 26.158 W113* 26.158 W113* 29.160 W113* 29.160 W113* 31.588 W113* 31.588 W113* 31.588 W113* 31.588 W113* 31.586 W113* 31.686 W113* 31.686 W113* 31.686 W113* 31.686	In front of busy Esso truck stop. Lots of through in front of busy Esso truck stop. Lots of through interest in the control of	N N N N N N N N N N N N N N N N N N N	S N/A very industrialized area S Picnic table behind industrial building Very industrial area, commercial business SOIt away S Close by strip mail complex S Mail 300 on from site, site is adjacent to a park S N/A very industrial area S N/A very ind	92 m to Esso station Congregation point approx. 65 m at principate behind industrial building. Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m. Mall is 300 m from site. N/A Store fronts are approx 15 m away. N/A N/A N/A N/A N/A N/A N/A N/	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the size No cigarette butts found on site More butts found on site More butts found further from intersection every 50 ft along the curb. 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## 82	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Estribution 19210. Site is on 70 Avenue NV just east of 17 St. NW Commencing at the corne of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at 8 99 Site C Thermal Technology. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200' North of 44 Ave. NW. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200' North of 44 Ave. NW. Site is west of 66 St. NW. Site is on the west side of 23 Ave. NW adjacent to Mill Wood Pk. Site is north of 45 Ave. NW. Site is on the west side of 50 St. NW between Dresser-Band and Dato Industries inc. Site is north of 45 Ave. NW. Site is on the west side of 50 St. NW commencing at house # 4505 just north of the bus stop. Site is north of 45 Ave. NW. Site on the east side of 99 St., NW commencing at house # 4505 just north of the bus stop. Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW across From Tim Morton's. Site is west of 108 St. NW. Site on morth side of 33 Ave. NW commencing at house # 10008. Site is north of 40 Ave. NW. Site on the west side of 1115 St. NW. Site moved due to construction. Site is south of 42 Ave. NW. Site on the west side of 114 St. NW commencing at 42 Ave. NW at house # 13147. Site on north side of 35 Avenue commencing at 114 St. NW in punkland. Site is west of 113 St. NW across from house # 13147. Site on the south side of 42 Ave. NW commencing a 114 St. NW in punkland. Site is west of 113 St. NW across from house # 13147. Site on the south side of 32 Avenue commencing at bouse # 13140. Site is west of 113 St. NW site on east side of Otchenden Place NW commencing at house # 221. East of Terullingar Rd. and north of 18 in the word side of Burton Road commencing a thouse # 221. East of Terullingar Rd. and north of 18 of 18 Avenue Commencing a NW of the Site is a seat of	6/1/2017 6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 6/1/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/30/2017 5/30/2017 5/30/2017 5/30/2017	9:41 AM 9:50 AM 10:00 AM 10:05 AM 11:28 PM 11:37 PM 11:44 PM 11:52 PM 10:48 AM 11:04 AM 11:15 PM 11:09 PM 11:24 AM 11:04 AM 11:24 AM 11:04 AM 11:34 AM 12:05 PM 12:42 PM 2:02 PM 12:42 PM 12:54 PM 12:42 PM 12:54 PM 12:42 PM 12:54 PM 12:15 PM 12:24 PM 13:15 PM 3:30 PM 3:31 PM 3:45 PM 3:49 PM		18 18 18 18 18 18 18 18 18 18 18 18 18 1	18 18 18 18 6 6 18 18 18 18 18 18 18 18 18 18 18 18 18	18 18 18 18 18 18 18 18 18 18 18 18 18 1	Minor Major Major Major Minor Major Minor Major Minor	2	Y IND Y COM Y COM Y PARK Y IND Y COM Y COM Y COM N RES N RES N RES N RES Y RES N RES Y RES N RES N RES N RES N RES	d N N N N N N N N N	N Y N N Y N N Y N N N N N N N N Y N Y Y N N N N	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 V 6.0 N 24.0 N 1.0 N 0.0	14.0 NO BIN	Curb 2 Curb 1 Curb 1 Curb Grass Line 1 Curb Tarss Line 1 Curb Grass Line 1 Curb Grass Line 1 Curb-Grass Line 1	7.5.879 N.53" 2.6.60 W13" 23.641 N.53" 2.0.60 W13" 22.105 N.53" 29.191 W13" 25.554 N.53" 28.922 W13" 26.158 N.53" 28.922 W13" 31.014 N.53" 28.922 W13" 31.966 N.53" 28.922 W13" 31.966 N.53" 28.922 W13" 31.966 N.53" 28.922 W13" 31.97 N.53" 28.928 W13" 31.97 N.53" 28.928 W13" 31.980 W13" 31.344 N.53" 28.668 W13" 38.912 N.53" 28.668 W13" 33.5912 N.53" 27.26 W13" 33.414 N.53" 28.668 W13" 38.912 N.53" 27.26 W13" 33.414 N.53" 28.668 W13" 38.912 N.53" 27.26 W13" 33.414 N.53" 27.26 W13" 33.414	N 53' 31.604 N 53' 30.406 N 53' 29.191 N 53' 28.922 N 53' 27.223 N 53' 27.223 N 53' 27.8964 N 53' 28.964 N 53' 28.964 N 53' 28.964 N 53' 28.977 N 53' 28.978 N 53' 28.978 N 53' 28.978 N 53' 28.988 N 53' 28.888 N 53' 29.244 N 53' 28.655	W113* 23.685 W113* 22.105 W113* 25.554 W113* 25.554 W113* 26.158 W113* 26.158 W113* 29.160 W113* 29.160 W113* 31.558 W113* 31.586 W113* 31.74 W113* 31.486 W113* 31.586 W113* 31.586 W113* 31.586	In front of busy Esso truck stop. Lots of through in front of busy Esso truck stop. Lots of through interest in the first state. Lots of small litter. Plorito table beyond industrial building Littler may come from cars (major road) or closest commercial business is approx 50 ft sways from start of site Fast food locations close by intersection 23 ave 8, 66 St - minimal litter. Mail across the street, site right along park. Mail approx 50 meters away any little found was along curb because grass was being out and maintained while auditors away. Bus stop and bench are approx. 50 ft away. Bus stop and bench are approx. 50 ft away. Bus stop and bench are approx. 50 ft away. Bus stop and bench are approx. 50 ft away. Bus stop and bench are approx. 50 ft away. Bus stop and bench are approx. 50 ft away. Bus stop and bench are approx. 50 ft away. Bus stop and bench are and ster uns across railway tracks. Residential area No evidence of litter at intersection. Garbage can did benches in park area. No large litter found. Site is very clean Construction and construction vehicles parked along site N/A N/A N/A Lots of construction and equipment interfered with the site	N N N N N N N N N N N N N N N N N N N	S N/A very industrialized area S Picnic table behind industrial building S Very industrial area, commercial business SOIt away S Close by strip mail complex S Mail 300 on from site, site is adjacent to a park S N/A very industrial area S None evident S Intersection, near a mail Intersection, near a mail S Bus stop and high school within 300 m of site. S Park usage, sidewalks S None evident Park across the street could lead to more human traffic, and thus more littler. S No evidence Possibly the two litter bins, which are several meters from each other. S No evidence S No evidence S No evidence	92 m to Esso station Congregation point approx. 65 m at princin table behind industrial building. Commercial business 15 m from start of site. Tim Horton's is about 92 m from start of site, some fast food within 30 m. Mall is 300 m from site. N/A Store fronts are approx 15 m away. N/A N/A N/A N/A N/A N/A N/A N/	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the size No cigarette butts found on site More butts found further from intersection every 50 ft along the curb. No cigarette butts found Non evident No cigarette butts found Non cigarette butts were found Non cigarette butts were found No cigarette butts werdent No cigarette butts evident Noiced scattered cigarette butts close to curb along site. Likely to be from people ficking them from their welkices. Approximately 1 every 6 ft along curb. No evident cigarette butts. None evident More cigarette butts found closer to yield sign on corner. None found No cigarette butts were found No cigarette butts were found No cigarette butts were found Cigarette butts were found Cigarette butts were found
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S Park usage, sidewalks S None evident Park across the street could lead to more human traffic, and thus more litter. S No evidence Possibly the two litter bins, which are several metter for meach other. No evidence S N/A No evidence S No evidence	92 m to Esso station Congregation point approx. 65 m at picnic table behind industrial building Commercial business 15 m from start of site, some fast food within 30 m Mail is 300 m from site at 50 m from start of site, some fast food within 30 m Mail is 300 m from site N/A Store fronts are approx 15 m away. N/A N/A N/A N/A N/A N/A N/A N/	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarette were not found anywhere on the size No cigarette butts found on site More butts found further from intersection every 50 ft along the curb. No cigarette butts found on site No cigarette butts found Non evident No cigarette butts were found No cigarette butts evident No cigarette butts evident No cigarette butts evident No cigarette butts evident No evident cigarette butts No evident cigarette butts No evident cigarette butts No evident cigarette butts None evident None found No cigarette butts found closer to yield signo coroner. None found No cigarette butts were found No cigarette butts were found Cigarette butts were found Cigarette butts were found Cigarette butts more plentiful further away from intersection N/A
### 82	Ave. NW. Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Estribution (9210). Site is no 70 Avenue NV just east of 17 St. NW Commencing at the corne of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW be beginning at 8 99 IBS CT Fermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is west of 66 St. NW. Site is on the west side of 23 Ave. NW adjacent to Mill Wood Pk. Site is north of 45 Ave. NW. Site is on the west side of 23 Ave. NW adjacent Dresser-Rand and Dato Industries Inc. Site is north of 45 Ave. NW. Site is on the west side of 59 St. NW commencing at house # 4505 just north of the bus stop. Site is north of 45 Ave. NW. Site on the seat side of 96 St. NW commencing at house # 4505 just north of the bus stop. Site is seat of Gateway Boulevard NW on the north side of 19 Ave. NW across from Tim Norton's. Site is west of 108 St. NW. Site on onthe deed 53 Ave. NW commencing at house # 10008. Site is south of 42 Ave. NW. Site on the west side of 1115 St. NW. Site moved due to construction. Site is south of 42 Ave. NW. Site on the west side of 1115 St. NW. Site is a seat of 113 St. NW across from house # 11347. Site on the south side of 32 Avenue commencing at 143 N. NW in purkand. Site is seat of 135 St. NW across from house # 11404. Site is seat of 135 St. NW site on seat side of 84 Ne. NW proceeding of Ave. NW commencing at 140 New Proceeding and the seat side of Ave. NW proc	6/1/2017 6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/30/2017 5/30/2017 5/30/2017 5/30/2017 5/30/2017	9-41 AM 9-50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 10:48 AM 11:04 AM 1:15 PM 1:19 PM 1:02 PM 1:06 PM 1:124 AM 11:44 AM 11:54 AM 12:05 PM 2:02 PM 2:15 PM 12:42 PM 12:54 PM 12:15 PM 12:24 PM 12:15 PM 12:24 PM 13:15 PM 3:38 PM 3:15 PM 3:39 PM 3:15 PM 3:38 PM 1:55 PM 3:38 PM 1:55 PM 3:38 PM 1:55 PM 2:09 PM 1:26 PM 12:40 PM		18 18 18 18 18 18 18 18 18 18 18 6 18 7 18 18 6.5 18 18 18 18 18 18 18	18 18 18 18 18 18 6 6 18 18 6.5 18 18 18 18 18 18 18 18 18 18 18 18 18	18 18 18 18 18 18 18 18 18 18 18 18 18 1	Minor Major Major Minor Major Minor Major Major Minor	2	Y IND Y COM Y COM Y COM Y IND Y COM Y COM Y COM N RES N RES N RES Y RES	d N d N	N Y N N Y N N Y Y N N N N N N N N N N Y Y N N Y N N N N N	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 V 6.0 N 24.0 N 1.0 N 3.0 N 1.0 N 3.0 N 3.0 N 1.0 N 1.	14.0 NO BIN	Curb 2 Curb 1 Curb 1 Curb Grass Line 1 Curb Tarss Line 1 Curb Tarss Line 1 Curb Grass Line 1 Curb Tarse Line 1 Curb 4 Fence-Curb 4 Gurb 1 Curb Grass Line 1 Curb Grass Line 1	7.58.79 N.53" 2.6.60 W.13" 22.6.61 N.53" 2.0.60 W.13" 22.1.05 N.53" 2.2.105 N.53" 2.2.105 N.53" 2.2.105 N.53" 2.2.20 W.13" 25.5.54 N.53" 2.2.20 W.13" 26.158 N.53" 2.8.20 W.13" 29.160 N.53" 2.8.20 W.13" 29.160 N.53" 2.8.20 W.13" 31.0.14 N.53" 2.8.20 W.13" 31.0.14 N.53" 2.8.20 W.13" 31.0.14 N.53" 2.8.20 W.13" 31.0.14 N.53" 2.8.20 W.13" 31.74 N.53" 2.8.20 W.13" 31.75 N.53" 2.8.20 W.13" 31.50 W.13" 33.50 W.13" N.53" 2.8.23 W.13" N.53" 2.8.24 W.13" 33.25 W.13" N.53" 2.8.24 W.13" 33.25 W.13"	N 53' 31.604 N 53' 30.406 N 53' 29.191 N 53' 28.922 N 53' 27.223 N 53' 28.964 N 53' 28.964 N 53' 28.964 N 53' 28.979 N 53' 28.377 N 53' 28.377 N 53' 28.377 N 53' 28.287 N 53' 28.287 N 53' 28.287 N 53' 28.287	W113' 23.686 W113' 22.105 W113' 22.105 W113' 25.554 W113' 25.554 W113' 26.158 W113' 26.158 W113' 28.380 W113' 29.377 W113' 31.586 W113' 31.74 W113' 31.686 W113' 31.74 W113' 33.826 W113' 34.344 W113' 34.345 W113' 34.365 W113' 34.365 W113' 35.512 W113' 35.514	In front of busy Esso Truck stop. Lots of through traffic. Lots of small litter. Ploric table beyond industrial building Litter may come from cars (major road) or dosest commercial business is approx 50 ft away for the commercial business is approx 50 ft away for the commercial business is approx 50 ft away for most act of site fast food locations close by intersection 23 ave & 66 St - minimal litter. Mail across the street, the right along park. Natl approx 20 meters away any litter found was along curb because prass was being cut and maintained with earlier found was along curb because prass was being cut and maintained with earlier some street, and along the cut of the commercial area, store from a sea approx. 50 ft away. But stop and maintained with earlier some blowing litter. Tim Horton's across the street and site runs across railway tracks. Residential area No evidence of litter at intersection. Garbage can and benches in past area. No large litter found. Site is very clean Construction and construction vehicles parked along site N/A N/A N/A N/A N/A N/A N/A N/	N N N N N N N N N N N N N N N N N N N	S N/A very industrialized area S Picnic table behind industrial building S Very industrial reac commercial business Soft away S Close by strip mail complex S Mail 300 m from site, site is adjacent to a park S N/A very industrial area S N/A Many shopping centers, bus stop with litter bin. S None evident S Intersection, near a mail Bus stop and high school within 300 m of site. S Park usage, sidewalks Park aross the street could leaf to more human rraffic, and thus more interest. No evidence Possibly the two litter bins, which are several meters from each other. No evidence No evidence No evidence No evidence No evidence	92 m to Esso station Congregation point approx. 60 m at picnic table behind industrial building Commercial business 15 m from start of site, some fast food within 30 m Mail is 300 m from site at 50 m from start of site, some fast food within 30 m Mail is 300 m from site N/A Store fronts are approx 15 m away. N/A N/A N/A N/A N/A N/A N/A N/	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarettes were not found anywhere on the size No cigarette butts found on size More butts found further from intersection every 50 ft along the Curb No cigarette butts found None evident No cigarette butts were found No cigarette butts evident No evident cigarette butts does to curb along size. Likely to be from people ficing them from their vehicles. Approximately 1 every 61 talong curb. None evident More evident More digarette butts found closer to yield sign on corner. None found No cigarette butts were found anywhere on size None found Cigarette butts more pientiful further away from intersection N/A N/A
82 92 AVENUE NW	Ave. NW. Site is west of 34 St. NW. Site on the month side of 92 Avenue in front of the street from Esso Estribution (9210). Site is no 70 Avenue NV just seat of 17 St. NW Commencing at the corne of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics. Site is west of 59 St. NW. Site on the north side of Roper Rd. NW. beginning at 8 9938 CET Thermal Technologies. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200 North of 44 Ave. NW. Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW adjacent to Mill Wood Pk. Site is west of 66 St. NW. Site is on the west side of 23 Ave. NW adjacent to Mill Wood Pk. Site is north of 45 Ave. NW. Site is on the west side of 93 St. NW between Demonstration of the St. NW. Site is not the north side of 23 Ave. NW. Adjacent to Mill Wood Pk. Site is north of 45 Ave. NW. Site is on the west side of 99 St., NW commencing at house # 3.505 just north of the bus stop. Site is north of 45 Ave. NW. Site on the east side of 99 St., NW commencing at house # 3.505 just north of the bus stop. Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW. across from Tim Horton's. Site is seat of 108 St. NW. Site on north side of 33 Ave. NW commencing at house # 3.505. Site is north of 40 Ave. NW. Site on north side of 33 Ave. NW commencing at house # 3.505. Site is seat of 135 St. NW. Site on north side of 33 Ave. NW commencing at house # 3.504. Site is seat of 135 St. NW across from house # 13347. Site on north side of 33 Avenue commencing at 145 St. NW. Site is seat of 135 St. NW across from house # 13407. Site on north side of 34 Avenue commencing at house # 3.504. Site is seat of 135 St. NW across from house # 13407. Site on east side of Bulysa Rd. commencing at no on the north side of Avenue NW commencing at no one of side of Avenue NW commencing at no one house # 13504. Site is seat of Rabbit Hill Rd. Site on the seat side of 34 Avenue NW commencing at no one house # 13504. NW commencing at posciety fore	6/1/2017 6/1/2017 6/1/2017 6/1/2017 6/1/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/29/2017 5/30/2017 5/30/2017 5/30/2017 5/30/2017 5/30/2017	9:41 AM 9:50 AM 10:00 AM 10:05 AM 1:28 PM 1:37 PM 1:44 PM 1:52 PM 1:048 AM 11:04 AM 1:15 PM 1:06 PM 1:24 AM 11:44 AM 1:15 PM 1:05 PM 1:48 PM 2:02 PM 2:09 PM 2:15 PM 12:42 PM 12:54 PM 12:47 PM 2:54 PM 2:47 PM 2:54 PM 3:30 PM 3:10 PM 3:15 PM 3:23 PM 3:45 PM 3:38 PM 1:55 PM 2:29 PM 1:55 PM 12:30 PM 1:55 PM 12:30 PM 3:15 PM 12:30 PM		18 18 18 18 18 18 18 18 18 18 18 18 18 1	18 18 18 18 18 6 6.5 18 18 18 18 18 18 18 18 18 18 18 18 18	18 18 18 18 18 18 18 18 18 18 18 18 18 1	Minor Major Major Major Minor Major Minor Major Minor	2	Y IND Y COM Y COM Y PARK Y IND Y COM Y COM Y COM N RES N RES N RES Y RES N RES Y RES Y RES Y RES Y PARK Y RES N RES N RES	d	N Y N N Y N N Y Y N N N N N N N N N N Y Y N N Y N N N N N	N N N N N N N N N N N N N N N N N N N	N N N N N N N N N N N N N N N N N N N	N 21.0 N 4.0 N 1.0 N 3.0 N 8.0 V 6.0 N 24.0 N 1.0	14.0 NO BIN	Curb 2 Curb 1 Curb 1 Curb - Grass Line 1	7.5.8.79 N.53" 2.6.60 W13" 23.6.41 N.53" 2.6.00 W13" 22.1.05 N.53" 2.9.191 W13" 25.5.54 N.53" 28.922 W113" 26.158 N.53" 28.922 W113" 26.158 N.53" 28.922 W113" 26.158 N.53" 28.910 W113" 27.93.90 N.53" 28.910 N.53" 28.930	N 53' 31.604 N 53' 30.406 N 53' 29.191 N 53' 29.191 N 53' 28.922 N 53' 29.295 N 53' 29.2964 N 53' 29.2964 N 53' 28.577 N 53' 28.709 N 53' 28.709	W113* 23.686 W113* 22.105 W113* 25.554 W113* 25.554 W113* 26.158 W113* 26.158 W113* 29.160 W113* 29.160 W113* 31.014 W113* 31.586	In front of busy Esso truck stop. Lots of through in front of busy Esso truck stop. Lots of through interest in the control of		S N/A very industrialized area S Picnic table behind industrial building S Very industrial area commercial building S Very industrial area commercial business SOft away S Close by strip mail complex S Mall 300 on from site, site is adjacent to a park S N/A very industrial area S N/A None evident S None evident S None evident S Park usage, sidewalks S None evident S None evident S None evident S None evident S No evidence S N/A S No evidence S N/A S No evidence	92 m to Esso station Congregation point approx. 65 m at princi table to the principal state of the state of t	N/A N/A N/A N/A N/A N/A N/A N/A	Cigarette were not found anywhere on the size No cigarette butts found on size More butts found further from intersection every 50 ft along the curb. No cigarette butts found Non evident No cigarette butts were found No cigarette butts weident Noice destructions of cigarette butts does to curb along size. Likely to be be from people fiscing them from their welkices. Approximately 1 every 6 ft along curb. No evident cigarette butts. None evident More cigarette butts found closer to yield sign on corner. None found No cigarette butts were found anywhere on size None found No cigarette butts were found anywhere on size None found No cigarette butts more plentful further away from intersection N/A N/A N/A Cigarette butts found along curb

Appendix A
Site Location belaik 2017
Site and Si

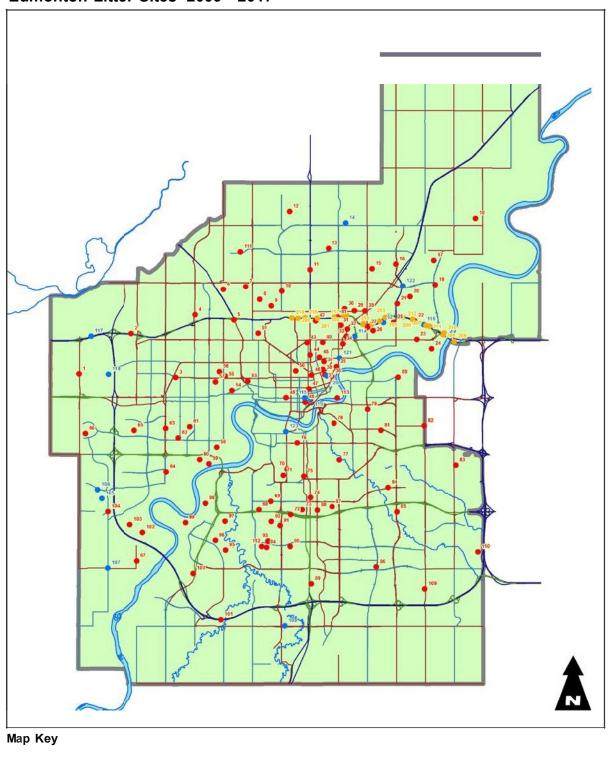
Site #	Street	Site Description	Date (mm/dd/yyyy)	Start Fini	ish Tea	ım Fixed	Width 1 (ft)	Width 2 (ft)	Width 3 (ft)	Street Type	: Lanes	Divided	Area	Grass Ht. (Inches)	Fast Food St	onv Traffi Light o Stop Si		Mobile E Food Vendor S	lench or Resting Bu tructure	Evidence Stop of Litter Cleanup	e r Lg Litter	Sm Litter D	etails on Litter Bin	Catch Pt	Litter Index	Coordinates	Latitude	Longitude	Comments	Evidence of Litter Dumping?	Scattered vs. Piled	Details on where litter could be coming from:	Approx. distance from audited site, re: infrastructure	Closest intersection notes:	Notes on cigarette butts:
107	199 STREET NW	Site is on the west side of 199 St. NW commencing north of 23 Ave.	5/30/2017	11:24 AM 11:31	AM B	N	2	2	2	Laneway	2	Υ	IND	N/A	N	N Y	N	N	N	N N	1.0	0.0	NO BIN	Curb	1	N 53°27.211 W113° 39.868	N 53*27.211	W113* 39.868	Construction present. Residential developme coming soon (potential farm land).	nt N	s	N/A	N/A	N/A	Nothing to note
108	ELLERSLIE RD	Site is east of 111 St. Site is on the south side of Ellerslie Rd. in front of the Ellerslie Rugby Club.	5/30/2017	12:54 PM 1:02	РМ В	Y	18	18	18	Major	4	Υ	сом	<3	Y	Y Y	N	N	Υ	Y N	4.5	23.0	Beside bus stop	Fence-Curb	2	N 53° 25.498 W113°30.778	N 53° 25.498	W113*30.778	Visually speaking, some litter collected on a branch outside of study area (ie: retail plasti bags)		s	N/A	N/A	N/A	Not found near intersection - found further away from traffic light
109	16A AVENUE	Site on south side of 16A Avenue east of 34 St. NW commencing at house #3415.	5/29/2017	9:53 AM 10:04	AM A	. N	16	16	16	Minor	2	N	RES	<3	N	N Y	N	N	N	N N	2.0	3.0	NO BIN	Curb-Grass Line	1	N 53° 26.624 W113° 23.709	N 53° 26.624	W113° 23.709	Took survey form picture after site finish	N	S	Road usage, sidewalks	N/A	Spotted 3 cigarette butts at the nearest intersection	Several cigarette butts outside of measured area (scattered)
110	MERIDIAN ST	Site is north of West Railway St. Site on west side of Meridian St. commencing at RR warning sign and proceeding south.	5/29/2017	9:27 AM 9:42	AM A	. ч	18	18	18	Minor	2	N	PARK	3-6	N	N N	N	N	N	N N	15.0	4.0	NO BIN	Fence-Grass Line	3	N 53° 27.655 W113° 20.894	N 53° 27.655	W113° 20.894	Very remote location, not much around. No intersection present.	N	s	Gravel road, car travel	N/A	No intersection present	N/A
111	154 AVENUE NW	Site is on 154 Ave. NW; west of 133 St. NW. Site begins at house # 13322 and proceeds to house # -13342.	5/29/2017	9:34 AM 9:39	ам в	N	7	7	7	Major	2	N	RES	N/A	N	N N	N	N	N	N N	1.0	2.0	NO BIN	Curb	1	N 53° 36.912 W113° 33.144	N 53° 36.912	W113* 33.144	N/A	N	s	No evidence	N/A	N/A	No evidence
112	116 STREET NW	Site is north of 32A Ave. NW. Site is on 116 St. NW commencing at house #11604.	5/29/2017	12:30 PM 12:38	PM A	. N	7	6	6	Minor	2	N	RES	<3	N	N N	N	N	N	N N	0.0	1.0	NO BIN	Curb-Grass Line	1	N 53° 27.935 W113° 31.986	N 53° 27.935	W113* 31.986	No large litter found. Site is very clean	N	s	No evidence	N/A	N/A	No evidence
113	99 AVENUE NW	Site is west of 89 St. NW. Site is on the south side of 99 Avenue NW across from the River Grande Condo Development Site commences at 92 St. NW and proceeds east.		2:04 PM 2:10	РМ В	N	11	16	12.5	Minor	2	N	RES	<3	N	N N	N	N	N	N N	0.0	0.0	NO BIN	Fence-Curb	1	N 53° 34.875 W113° 34.256	N 53° 34.875	W113* 34.256	Construction and development present	N	s	Community park 92 meters away	N/A	N/A	None found
114	/AYNE GRETZKY DR.	Site is south of 119 Avenue in the Blvd. of parking lot B of Rexall Place on Wayne Gretzky Dr.	6/1/2017	11:17 AM 11:29	A MA	Y	18	18	18	Major	4	N	сом	<3	N	N Y	Y	N	N	N N	6.0		ntersection of 119 Street and Wayne Gretzky	Curb-Grass Line	1	N 53° 34.251 W113° 27.230	N 53° 34.251	W113* 27.230	Site immediately in front of coliseum - Rexal Place - 2 Restaurants across the street (appro 30 m). Nearest intersection had some scatter cigarette butts on inside corner of NW corner Wayne Gretzky and 118 Ave.	ed N	S	Site is directly in front of Rexall Coliseum parking lot	Site 50 m from Coliseum	Some cigarette butts at NW corner of Wayne Gretzky and 118 Ave. Most butts are along grass line, not curb. From foot traffic. Photos taken at intersection	Some cigarette butts at NW corner of Wayne Gretzky and 118 Ave. Most butts are along grass line, not curb. From foot traffic.
115	ASPER AVENUE NW	Site is on the south side of Jasper Avenue NW between 102 St. NW and 103 St. NW.	5/31/2016	9:44 AM 9:53	AM A	. N	18	18	15	Major	6	Υ	сом	N/A	Υ	N Y	Y	N	N	N Y	6.0	27.0 st atta	ext to 103 St/Jasper osswalk next to bus tops. Cigarette bin ached to bus stop, 2 tter bins along site	Curb	1	N 53° 32.421 W113° 29.775	N 53° 32.421	W113* 29.775	Lots of cigarette butts in section 2, however cigarette ashtray in Section 3. Before we got the site we saw a city worker cleaning up litte All large litter was found along curb.	to N	S	Heavy foot traffic and road use, office buildings and shops in immediate area.	N/A	Intersection looks clean, minus chewing gum.	2 cigarette butt bins on site. Cigarette butts seem to be along curb, likely a result from cars.
116	YELLOWHEAD TR	Traveling eastbound on Yellowhead Trail the site is just before the Victoria Trail exit.	5/30/2017	3:03 PM 3:11	PM A	. У	18	18	18	Major	4	Υ	IND	>6	N	N N	N	N	N	N N	16.0	7.0	NO BIN	Curb-Grass Line	2	N 53° 34.791 W113° 24.154	N 53° 34.791	W113* 24.154	N/A	N	s	Yellowhead Highway usage	N/A	No intersections nearby	N/A
117	YELLOWHEAD TR	Travelling west on Yellowhead Tr. The site is on Yellowhead Tr. 200m east of the Winterburn exit.	5/31/2017	11:38 AM 11:45	AM B	Y	18	18	18	Major	6	Υ	сом	3-6	N	N N	N	N	N	N N	11.0	12.0	NO BIN	Curb	3	N 53° 34.324 W113° 40.745	N 53° 34.324	W113* 40.745	Fairly clean, grass freshly cut	N	s	N/A	N/A	N/A	N/A
118	199 STREET NW	Site is on 199 St. NW north of 107 Ave. NW beginning at the entrance to M.A.P. on the east side of the road.	5/29/2017	12:10 PM 12:12	РМ В	N	10	11	11	Minor	2	N	IND	N/A	N	N N	N	N	N	N N	13.0	1.0	NO BIN	Curb	3	N 53° 33.185 W113° 39.858	N 53° 33.185	W113* 39.858	Lots of construction last year, none this year	r. N	s	N/A	N/A	N/A	More cigarette butts near intersection, than near building entrance.
119	ASPER AVENUE NW	Site is in Rice Howard Way, Site is on the south side of Jasper Ave. beginning at 100A St. and proceeding east.	5/31/2017	9:11 AM 9:31	AM A	. Y	18	18	18	Major	4	N	сом	N/A	Υ	N Y	Υ	N	Y	Y N	8.0	4.0 alo	y green space and ong Jasper Ave (also beside bus stops)	Curb	1	N 53* 32.462 W113* 29.453	N 53* 32.462	W113* 29.453	Section #2 has cement bus bench (block) in middle. Site has 5 garbage bins and 1 cigarett butt bin - large litter usually found in grates where trees are. Also found 2 cigarette pack right next to garbage bin. Lots of foot traffic Office building in surrounding area.	te i N	Scattered and piled around tree base under metal grill (photo taken)	Sidewalk and road usage - office buildings in area, lots of foot traffic	N/A	N/A	3 cigarette butts at closest intersection.
120	92 STREET NW	Site is on 92 St. NW commencing at 106A Ave. where the LRT crossing is.	6/1/2017	1:50 PM 2:05	PM A	N	18	17.5	17.5	Minor	2	N	RES	<3	N	N Y	Y	N	Y	N N	22.0	6.0 At	t park across street	Curb-Grass Line	2	N 53° 33.161 W113° 28.630	N 53° 33.161	W113° 28.630	started at corner of 92nd & 106-travelled we on the west side of the street and headed sou		s	LRT Crossing, apartment buildings	LRT Crossing 20 m from site. Apartment buildings within 10 m of site.	N/A	1 cigarette butt at closest intersection.
121	112 AVENUE NW	Site is on the south side of 112 Ave. NW commencing 100 feet west of 82 St. NW and proceeding east. Site starts in front of the Highland's Plaza and continues in front of the Highland's Apt. Building.	6/1/2017	1:27 PM 1:39	PM A	. N	18	11	11	Major	4	Υ	сом	<3	Y	N Y	Y	N	Y	Y N	10.0	9.0 sto	iarbage bins at each intersection. 2 bus ips (two of the hour bage bins are at the bus stops)	Fence-Curb-Grass Line	1	N 53° 33.665 W113° 28.083	N 53° 33.665	W113* 28.083	Close proximity to McDonald's. Right along si a plaza. Heavy car traffic and moderate foot traffic.		S	Several fast food restaurants on both sides of the street. Several cigarette butts around bus stop litter bin (photo taken)	Save on foods approximately 50 m away.	N/A	5 cigarette butts scattered around closest intersection. High amount of cigarette butts surrounding near bus stop 1094.
122	50 STREET NW	Site is on 50 St. NW south of Manning Dr. and north of 137 Ave. NW. Site is in front of the Red Robin Restaurant. Site is in the Clareview Town Centre Site.		10:13 AM 10:24	AM A	. У	18	18	18	Major	6	Υ	сом	<3	Υ	Y Y	Υ	N	Υ	Y N	8.0		Beside bus stop ross the street from Red Robin)	Curb-Grass Line	2	N 53°35.833 W113° 24.727	N 53° 35.855	W113* 24.727	Lawn mowing in progress. Not a lot of small litter as a result, some large litter has been shredded. Survey sheet photo was taken las		s	Restaurants, convenience store, sidewalk and road usage.	N/A	N/A	Several cigarette butts have been scattered around the sidewalk at nearest intersection.
123	109 STREET NW	Site is in front of the Highlevel Diner on 109 St. at 89 Ave. NW.	5/31/2017	8:33 AM 8:46	AM A	. N	12	7.5	12	Major	2	N	сом	N/A	N	N Y	Υ	N	Υ	Y N	5.0	11.0 At	the street corners	Fence-Curb	1	N 53° 31.425 W113° 30.822	N 53° 31.425	W113* 30.822	Lots of traffic car traffic and cyclists.	Y	P/S	Condos located 20 m away. High level diner 50 m away. Sidewalk and road usage.	N/A	One cigarette butt at closest intersection.	Cigarette butts look to be piled at mid point of site.

Appendix A
Sile Location Dealis 257
Sile Location Dealis 257

APPENDIX B

SITE DISTRIBUTION MAP

Edmonton Litter Sites 2009 - 2017



- 2009 • 2017 Audit Locations

- 2010, 2012, 2014, 2017 Yellowhead Highway Audit Locations

- 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 x 18 feet. 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), which will be recorded. These sites are termed VARIABLE sites

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

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

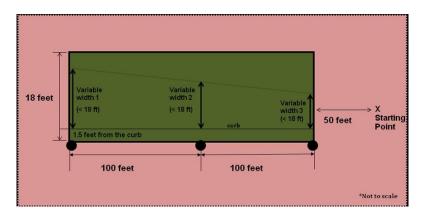


Figure 1: Schematic of Survey Site

Classification of Large Litter

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

At each site location this litter audit will observe and document large litter in 14 categories and 84 sub-categories. See Table 1 below for details of the classification of litter items.

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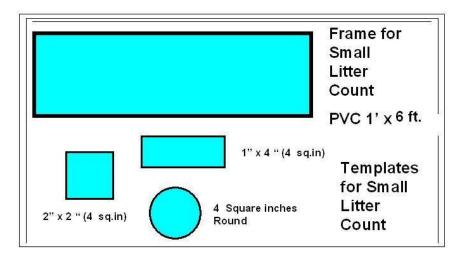


Figure 2: Litter Template

Classification of Small Litter

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

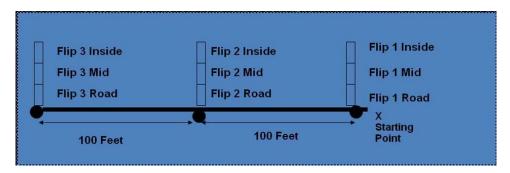


Figure 3: Site Set up Small Litter

APPENDIX D

FIELD FORMS

Site Surveyor Form

Date: (DD/MM/YYYY) Start Time: (AM/PM) End Time: (A	.M/PM)
Team ID Surveyors Names:	
Site ID Number: Site Name:	
Site type: Fixed ☐ Variable ☐ Site length: Always 200 feet long	
If variable: GPS Coordinates: N	
Road type (check one): Major City Street	
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	
# Photos Taken:	
Visual rating of site (1 = cleanest, ie. <5 large pieces of litter; 4 = dirtiest, ie. >20 large pieces of litter) Evidence of litter dumping? Y / N	
Details on where litter could be coming from (infrastructure, congregation spots, land usage):	
Assessment of closest intersection for cigarette butts:	

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

Date (DD/MM/YY):	
Start Time:	End Time:
Геат ID:	Surveyors Names:
Site ID Number:	
Site Name:	

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

^{*}closest to vehicle/starting point

Site ID:

Site Name:

Time:

Survey Team:

CATEGORY	PASS 1	TOTAL	PASS 2	TOTAL	BRAND NAMES OBSERVED
MISCELLANEOUS LITTER	•			<u>u.</u>	
Misc. Paper					
Misc. Plastic					
Misc. Paperboard					
Misc. Cardboard					
Misc. Glass					
BEVERAGE CONTAINERS				•	
Beer Cans					
Beer Bottles (glass)					
Soft Drink (glass)					
Soft Drink (cans)					
Soft Drink (plastic)					
Sport Drink (glass)					
Sport Drink (plastic)					
Water (glass)					
Water (plastic)					
Wine/ Liquor (glass)					
Wine/ Liquor (plastic/other)					
Milk/Juice (plastic)					
Milk/Juice (glass)					
Milk/Juice (gable top)					
Foil Pouches					
Aseptic (box)					
Broken Glass Container					
Six Pack Plastic Rings					
CUPS					
Plastic Drink Cups					
Paper Cups (cold)					
Paper Cups (hot)					
Polystyrene Cups (foam)					
Other Paper Cups					
Cup Lids, Pieces, Lids					
BAGS					
Plastic Retail Bags					
Paper Retail Bags					
Paper Bags - Fast Food					
Plastic Bags - Not Retail					
Paper Bags - Not Retail					
Zipper Bags/Sandwich Bags					
BOXES	•	-			
Cardboard Boxes/ Box Material	<u> </u>				
Paperboard (boxboard)					
Paper Beverage Cases/Sleeves					
Polystyrene Clamshells					
Paper Clamshells					
Other Plastic Shells/Boxes					

CATEGORY	PASS 1	TOTAL	PASS 2	TOTAL	BRAND NAMES OBSERVED
OTHER CONTAINERS					
Plastic Jars / Bottles/ Lids					
Glass Jars/Bottles					
Cans - Steel					
Cans - Aluminum					
Container Lids					
Aerosol cans (paint, oils, etc.)					
Plastic Packaging Other					
Paper Packaging Other					
Plastic/Composite Other					
Foil Materials/Foil Pieces					
Foil Containers					
WRAPS & TRAYS					
Paper Food Wrap					
Paper /Foil Composite Wrap					
Plastic Wrap					
Polystyrene Trays					
Paper Trays					
Other Trays					
CANDY & GUM & SNACKS		1		<u> </u>	
Gum Wrappers					
Candy Bar Wraps					
Candy Pouches					
Sweet Packaging					
Other Confectionery					
Snack Food Packaging					
FAST FOOD ITEMS					
Condiment Packaging					
Utensils					
Name Brand Napkins / Serviettes					
Paper Fast Food Plates					
Poly Fast Food Plates					
Other Plastic FF Plates					
Plates - Other Mat's					
No Brand Name Napkins					
HOUSEHOLD ARTICLES					
Clothing or Clothing Pieces					
Other Cloth					
Vehicle & Metal Road Debris					
Construction debris					
Tire & Rubber debris					
Home Articles					
PRINTED MATERIALS	<u> </u>				
Lottery \Ticket Debris					
Printed Material					
Stationary (school, business etc.)					
Receipts (business forms, bus					
TOBACCO PRODUCTS	<u> </u>				
Cigarette / Cigar Debris					
Tobacco other					
OTHER ADDITIONAL ITEMS		1		п.	
Pet Waste in a Bag					
Food Waste					
Popsicle Sticks					
i upaidie alloks					

APPENDIX E

LARGE LITTER DATA

Category	2017 Total	2017 Percent	2016 Total	2016 Percent
Misc. Plastic	95.5	10.75%	252	18.53%
Cup Lids, Pieces, Lids	88	9.90%	87.5	6.43%
Misc. Paper	62	6.98%	159.5	11.73%
No Brand Name Napkins /Serviettes	65.5	7.37%	82	6.03%
Construction debris	55	6.19%	91	6.69%
Plastic Packaging Other	55.5	6.25%	39	2.87%
Tobacco other	44	4.95%	39	2.87%
Paper Cups (hot)	38	4.28%	48	3.53%
Home Articles	32	3.60%	21	1.54%
Receipts (business forms, bus tickets)	31	3.49%	29	2.13%
Printed Material	24	2.70%	62	4.56%
Paperboard (boxboard)	24	2.70%	13	0.96%
Snack Food Packaging	21.5	2.42%	27	1.99%
Vehicle & Metal Road Debris	19	2.14%	28	2.06%
Clothing or Clothing Pieces	18	2.03%	20	1.47%
Paper Food Wrap	13.5	1.52%	17	1.25%
Plastic Drink Cups	12	1.35%	16	1.18%
Paper Cups (cold)	12	1.35%	19	1.40%
Paper Packaging Other	9.5	1.07%	13	0.96%
Cardboard Boxes/ Box Material	9.3	1.01%	17	1.25%
Other Confectionery	8	0.90%	1	0.07%
Paper Bags - Fast Food	8	0.90%	4	0.07%
Misc. Cardboard	8	0.90%	19	1.40%
	6.5	0.73%	10	0.74%
Candy Bar Wraps Paper /Foil Composite Wrap	7	0.79%	17.5	1.29%
Other Cloth	7	0.79%	30.5	2.24%
Polystyrene Cups (foam)	6	0.68%	6	0.44%
Plastic Retail Bags	7	0.79%	7.5	0.55%
Tire & Rubber debris	6	0.68%	24	1.76%
Misc. Paperboard	6	0.68%	14	1.03%
Food Waste	6	0.68%	5	0.37%
Zipper Bags/Sandwich Bags	5	0.56%	11	0.81%
Paper Trays	5	0.56%	1	0.07%
Candy Pouches	6	0.68%	6	0.44%
Plastic Bags - Not Retail	5	0.56%	5	0.37%
Gum Wrappers	4	0.45%	6	0.44%
Sweet Packaging	4	0.45%	10.5	0.77%
Condiment Packaging	4	0.45%	8	0.59%
Stationary (school, business etc.)	4	0.45%	13	0.96%
Soft Drink (cans)	3	0.34%	6	0.44%
Other Paper Cups	3	0.34%	0	0.00%
Paper Retail Bags	3	0.34%	1	0.07%
Foil Materials/Foil Pieces	3	0.34%	4	0.29%
Plastic Wrap	3	0.34%	13	0.96%
Utensils	3	0.34%	7	0.51%

Category	2017 Total	2017 Percent	2016 Total	2016 Percent
Popsicle Sticks	4	0.45%	2	0.15%
Beer Cans	2	0.23%	3	0.22%
Sport Drink (plastic)	2	0.23%	0	0.00%
Paper Beverage Cases/Sleeves	2	0.23%	5	0.37%
Plastic Jars / Bottles/ Lids	2	0.23%	2	0.15%
Polystyrene Trays	3	0.34%	3	0.22%
Name Brand Napkins / Serviettes	2	0.23%	2	0.15%
Water (plastic)	1	0.11%	2	0.15%
Wine/ Liquor (plastic/other)	1	0.11%	2	0.15%
Milk/Juice (plastic)	1	0.11%	0	0.00%
Aseptic (box)	1	0.11%	0	0.00%
Other Plastic Shells/Boxes	2	0.23%	0	0.00%
Container Lids	1	0.11%	6	0.44%
Aerosol cans (paint, oils, etc.)	1	0.11%	0	0.00%
Foil Containers	1	0.11%	0	0.00%
Other Plastic FF Plates	0	0.00%	0	0.00%
Beer Bottles (glass)	0	0.00%	1	0.07%
Soft Drink (glass)	0	0.00%	0	0.00%
Soft Drink (plastic)	0	0.00%	0	0.00%
Sport Drink (glass)	0	0.00%	1	0.07%
Water (glass)	0	0.00%	0	0.00%
Wine/ Liquor (glass)	0	0.00%	0	0.00%
Milk/Juice (glass)	0	0.00%	0	0.00%
Milk/Juice (gable top)	0	0.00%	1	0.07%
Foil Pouches	0	0.00%	0	0.00%
Broken Glass Container	0	0.00%	10	0.74%
Six Pack Plastic Rings	1	0.11%	0	0.00%
Paper Bags - Not Retail	0	0.00%	0	0.00%
Polystyrene Clamshells	0	0.00%	0	0.00%
Paper Clamshells	0	0.00%	0	0.00%
Glass Jars/Bottles	0	0.00%	0	0.00%
Cans - Steel	0	0.00%	2	0.15%
Cans - Aluminum	0	0.00%	1	0.07%
Plastic/Composite Other	0	0.00%		0.07%
Other Trays	0	0.00%	0	0.00%
Paper Fast Food Plates	0	0.00%	3	0.22%
Poly Fast Food Plates	0	0.00%	0	0.00%
Plates - Other Mat's	1	0.11%	0	0.00%
Lottery \Ticket Debris	0	0.00%	1	0.07%
Cigarette / Cigar Debris	0	0.00%	0	0.00%
Misc. Glass	0	0.00%	0	0.00%
Pet Waste in a Bag	1	0.11%	2	0.15%
Total		100.00%	1360	100.00%

APPENDIX F

SMALL LITTER DATA

Small Litter Items	;	2017	2016		
Siliali Litter Items	Items	Percent	Items	Percent	
Cigarette butts/debris	291	33.80%	324	27.91%	
Other tobacco	0	0.00%	2	0.17%	
Bottle caps	8	0.93%	1	0.09%	
Straws	3	0.35%	4	0.34%	
Candy packaging and wrappers	52	6.04%	31	2.67%	
Polystyrene packing materials, ie. foam peanuts	17	1.97%	10	0.86%	
Other polystyrene debris, ie. poly foam pieces	53	6.16%	85	7.32%	
Glass	53	6.16%	143	12.32%	
Paper	158	18.35%	271	23.34%	
Plastic film	27	3.14%	55	4.74%	
Hard plastic	81	9.41%	78	6.72%	
Aluminum/foil debris	3	0.35%	40	3.45%	
Rubber	3	0.35%	6	0.52%	
Metal (not aluminum)	0	0.00%	2	0.17%	
Other material	8	0.93%	28	2.41%	
Chewing gum (stuck on pavement)	96	11.15%	70	6.03%	
Food & Other Organics	8	0.93%	11	0.95%	
Total Site Litter	861	100.00%	1,161	100.00%	

APPENDIX G

RANKING OF SITES

	2017						
Site #	Lg Litter	Street Name	Site Description				
21	56	50 STREET NW	Site is just south of Hermitage Rd. south of Kennedale Shopping Centre.				
34	52	80 STREET NW	80 St NW - just North of 116 Ave. Site is 100m north of 116 Ave. adjacent to Parkdale recycling depot.				
46	37	107A AVENUE NW	Site is west of 97 St. Site is on the north side of 107A Ave. NW				
101	35	ANTHONY HENDAY DR.	Site is on Anthony Henday Dr - West of 127 St. NW and East of 142 St. NW. Site on south side of Anthony Henday Dr. 300 ft east of the White Mud Creek sign.				
36	34.5	JASPER AVENUE NW	Jasper Ave. at 90 St. NW. Site is on west boulevard commencing at 90St. NW in front of Boardwalk Centre and proceeding south.				
43	29	117 AVENUE NW	117 AVENUE NW - End of site is at corner of 101 St and 117 Ave. Site is between 101 St and 102 St.				
50	24	107 St. NW	Site is north of 109 Ave. on east side of the street commencing at the NE corner of 107 St and 109 Avenue in park across the street				
89	24	19 AVENUE NW	Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW across from Tim Horton's.				
22	23	YELLOWHEAD TRAIL	Site on Yellowhead Tr. Site is 500m East of 50 St. and West of Victoria Trail.				
120	22	92 STREET NW	Site is on 92 St. NW commencing at 106A Ave. where the LRT crossing is.				
75	21	104 STREET NW	Site is north of 64 Ave. NW. Site is on the east side of 104 St., NW commencing at 64 Ave. at house #6404. NW.				
82	21	92 AVENUE NW	Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Distribution #9210.				
5	19.5	YELLOWHEAD TRAIL NW	Site is on the south side of Yellowhead Trail NW. Site is on the south side of the ramp to St. Albert Trail NW				
100	19.5	TERWILLEGAR DRIVE NW	NE of Anthony Henday Dr. Site is on west side of Terwillegar Dr. NW 50 meters south of Haddow Dr.				
28	18	127 AVENUE NW	Turn left (west) onto 127 Ave. Site on 127 Ave NW beginning at the north west corner of 67 St.				
2	17	YELLOWHEAD TRAIL	Site is west of 190 St. between 184 St. and Anthony Henday Dr.				
40	17	91 STREET NW	91 STREET NW- N of 117 Ave. NW. Site is on east side of 91 St. NW beginning at house #11705.				
49	16	JASPER AVENUE	Site is west of 111 St. NW. Site on South side of Jasper Ave. commencing at bus stop #1466 and proceeding east. Site is in front of Covenant Health Edmonton General				
116	16	YELLOWHEAD TR	Traveling eastbound on Yellowhead Trail the site is just before the Victoria Trail exit.				
16	15	146 AVENUE NW	Site is West of 50 St. NW. Site is on the north side of 146 Ave. NW beginning in front of the Casselwood Shopping Centre and ending just before house #5116.				
31	15	81 STREET NW	Site on west side of 81 St. NW south of 123 Ave Site begins at house # 12224 proceeding south for 200'.				
38	15	108 AVENUE NW	108 Ave West of 93 St,. Site on north side of 108 Ave. NW beginning at the Baptist Fellowship Building.				
41	15	YELLOWHEAD TRAIL NW	Proceed east on Yellowhead Trail. Site on ramp to 82 St. NW. Site beginning at pumping station and proceeding west.				

	2017						
Site #	Lg Litter	Street Name	Site Description				
110	15	MERIDIAN ST	Site is north of West Railway St. Site on west side of Meridian St. commencing at RR warning sign and proceeding south.				
32	13	77 STREET NW	Site on 77 St. NW south of 121 Ave. NW. Site is on east side of 77 St. commencing at house # 12118.				
45	13	93 STREET NW	Site is north of 112 Ave., on the east side of 93 St. NW commencing at house #11207.				
118	13	199 STREET NW	Site is on 199 St. NW north of 107 Ave. NW beginning at the entrance to M.A.P. on the east side of the road.				
63	11	170 St - near West Edm Mall	Site is north of 90 Ave. NW. Site is on the east side of 170 St. commencing at 90 Ave.				
117	11	YELLOWHEAD TR	Travelling west on Yellowhead Tr. The site is on Yellowhead Tr. 200m east of the Winterburn exit.				
47	10	103 AVENUE NW	Site is east of 101 St Site is on the north side of 103 Ave. beginning at SE corner of 101 St. in front of parking lot area opposite Capital Clean.				
51	10	120 AVENUE NW	Site is west of 124 St. Site is on the north side of 120 Ave. beginning at house #12402.				
121	10	112 AVENUE NW	Site is on the south side of 112 Ave. NW commencing 100 feet west of 82 St. NW and proceeding east. Site starts in front of the Highland's Plaza and continues in front of the Highland's Apt. Building.				
11	8	97 STREET NW	Site is on 97 St. south of 144 Ave.				
44	8	113 AVENUE NW	Site is on the north side of 113 Ave. NW west of 97 St.				
86	8	23 AVENUE NW	Site is west of 66 St. NW. Site is on the north side of 23 Ave. NW adjacent to Mill Wood Pk.				
119	8	JASPER AVENUE NW	Site is in Rice Howard Way. Site is on the south side of Jasper Ave. beginning at 100A St. and proceeding east.				
122	8	50 STREET NW	Site is on 50 St. NW south of Manning Dr. and north of 137 Ave. NW. Site is in front of the Red Robin Restaurant. Site is in the Clareview Town Centre Site.				
10	7	113A STREET NW	Site is on 113A St. north of 134 Ave. NW beginning at house #13419 and ending at house # 13435.				
29	7	127 AVENUE NW	Proceeding west on Yellowhead Trail, turn north onto 66 ST. and proceed to 127 Ave. NW. Turn west onto 127 Ave. Site begins west of 73 St.				
52	7	57 STREET NW	Victoria Trail & 118 Avenue: Start at NE corner of 57 St and 122 Ave, proceed North				
8	6	123A STREET NW	Site is north of 131 Ave. NW and south of 132 Ave. NW in front of Chalmers Park.				
37	6	106A AVENUE NW	Site is on north side of 106A NW commencing at 93 St. at house # 10640.				
70	6	68 AVENUE NW	Site is east of 109 St. NW . Site on 68 Ave. NW on north side of street commencing at intersection of 109 St. and 68 Ave. proceeding east for 200'.				

	2017						
Site #	Lg Litter	Street Name	Site Description				
87	6	94 STREET NW	Site is north of 45 Ave. NW. Site is on the west side of 94 St. NW between Dresser-Rand and Daco Industries Inc.				
114	6	WAYNE GRETZKY DR.	Site is south of 119 Avenue in the Blvd. of parking lot B of Rexall Place on Wayne Gretzky Dr.				
115	6	JASPER AVENUE NW	Site is on the south side of Jasper Avenue NW between 102 St. NW and 103 St. NW.				
17	5.5	KIRKNESS ROAD NW	Site is West of 30 St. NW. Site is on the north side of Kirkness Rd. NW in Kirkness Park immediately west of Kirbness School.				
3	5	107 AVENUE NW	Site is on the south side of 107 Ave; East of Mayfield Road. Site is adjacent to Jasper Place Curling Club.				
27	5	66 STREET NW	66th St. NW - just south of Yellowhead Trail and north of 122 Ave. Going west on 118 Ave. turn right onto 66 ST. NW and proceed north to 122 Avenue NW. Site begins at the SE corner of 66 St. and 122 Ave. proceeding east.				
33	5	119 AVENUE NW	Site north of Coliseum Transit Centre (76 St. NW) . Site on south side of 119 Ave. NW between 77 St. and 78 St. in front of James Kidney Park.				
35	5	JASPER AVENUE NW	Site on south side of Jasper Ave. between 82 St & 83 St.				
64	5	170 St - south of West Edmonton Mall	Site on west side of 170 St. south of 69 Avenue. just south of the Husky Station.				
72	5	WHITEMUD AVENUE	Site is west of 106 St. NW on the ramp from Whitemud Avenue to 106 St. NW.				
104	5	199 STREET NW	Site is west of Anthony Henday and south of 45 Ave. NW. Site is on the east side of 199 St. NW terminating at 45 Ave. Site in front of River West Christian Church.				
123	5	109 STREET NW	Site is in front of the Highlevel Diner on 109 St. at 89 Ave. NW.				
108	4.5	ELLERSLIE RD	Site is east of 111 St. Site is on the south side of Ellerslie Rd. in front of the Ellerslie Rugby Club.				
9	4	129 AVENUE NW	Site is on 129 Avenue NW between 119 St. NW and 117 St. NW. Beginning at house # 11804 and proceeding east to house #11822.				
83	4	70 AVENUE NW	Site is on 70 Avenue NW just east of 17 St. NW commencing at the corner of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics.				
13	3	88 STREET NW	Site is just north of 153 Ave. NW. Site is on 88 St. and begins at the corner of 156 Avenue proceeding north and beginning at house # 15615.				
39	3	110 AVENUE NW	110 Ave West of 92 St. NW - 9003-9123. Site is on south side of 110 Ave. across form St. Marta Rectory in front of parking lot.				
61	3	160 STREET NW	Site is north of 91 Ave. NW. Site on the east side of 160 street NW across the street form house #9131. Site is in front of Meadowlark Public School.				
73	3	104A STREET NW	Site is north of 52 Ave. NW. Site is on the east side of 104 A St. NW beginning at house # 5219.				

Site #	Lg Litter	Street Name	2017 Site Description
Site #	Lg Littei	Street Name	Site Description
81	3	68 STREET NW	Site is north of 89 Ave. NW. Site on east side of 68 St. commencing at 89 Ave. NW.
85	3	50 STREET NW	Site is north of 44 Ave. NW. Site is on the west side of 50 St. NV commencing 200' North of 44 Ave. NW.
95	3	OCKENDEN PLACE NW	Site is east of Rabbit Hill Rd NW. Site on east side of Ockender Place NW commencing at fire hydrant # 12916.
106	3	205 STREET NW	Site is on 205 St. NW just south of 60 Ave. NW.
6	2	134 AVENUE NW	Site is west of 142 St. between 142 St. and St. Albert Trail on the north side of the street.
12	2	173A AVENUE NW	Site is on 173A Avenue; west of 108 St. NW and east of 115 St NW; between house #'s 10810 and 10834.
18	2	EVERGREEN DRIVE NW	Site is East of Fir Ave. NW. Site ion Evergreen Dr. NW begins a East Boundary of Community Park and ends at the West boundary at Evergreen Way.
30	2	128 AVENUE NW	Site on 128 Ave. NW just west 78 St. Site on north side of 128 Ave. beginning at house # 7907.
48	2	100 AVENUE NW	Site is west of 102 St. Site is on the north side of 100 Ave. NW across from Riverview Inn (was Econo Lodge) commencing at house #10207.
60	2	154 STREET NW	Site is north of 76 Ave. NW. Site is on the west side of 154 St. NW commencing at the NE corner of the school yard of Rio Terrace Elementary School.
66	2	89 AVENUE NW	Site is west of 213 St. NW - 21303. Site is on the north side of 8 Ave. NW commencing at intersection of 213 St. and 89 Ave. a house #21303.
68	2	117A STREET NW	Site is north of Whitemud & 46 Ave. NW. Site on east side of 117A north of 46 Ave. commencing at house # 46076.
76	2	82 AVENUE (Whyte Ave.)	Site is on 82 Ave. NW just west of 105 St.
79	2	75 STREET NW	Site is north of 96A Ave. NW. Site on right boulevard (east side of 75 St. NW commencing at 96A Ave.
96	2	BULYEA ROAD NW	Just N of OEMING RD - 221. Site on east side of Bulyea Rd. commencing at house # 221.
109	2	16A AVENUE	Site on south side of 16A Avenue east of 34 St. NW commencin at house #3415.
19	1	28 STREET NW	Site is South of 137 Ave. and North of 136 Ave. Site on 28 St. N begins at house #13605.
23	1	118 AVENUE NW	Site is on 118 Ave. at 38 St. NW. Site is on the north side of 11 Ave. NW and begins at Shoppers Drug Mart proceeding west 200'.
24	1	30 STREET NW	Victoria Tail & 118 Ave. Going west on 118 Ave. turn left onto St. then left onto 113 Ave. Proceed to 30 St. NW on right. Site on 30 St. NW on west side of street beginning at the corner o 113 Ave. and 30 St. NW.
55	1	141 STREET NW	Site is north of 107A Ave. NW - Site is on the east side of 141 Site is not the east side of 141 Site is north of 107A Ave. NW - Site is on the east side of 141 Site is north of 107A Ave. NW - Site is on the east side of 141 Site is north of 107A Ave. NW - Site is on the east side of 141 Site is north of 107A Ave. NW - Site is on the east side of 141 Site is north of 107A Ave. NW - Site is on the east side of 141 Site is north of 107A Ave. NW - Site is on the east side of 141 Site is north of 107A Ave. NW - Site is on the east side of 141 Site is north of 107A Ave. NW - Site is on the east side of 141 Site is north of 107A Ave. NW - Site is north of 107A Ave. NW
56	1	144A STREET NW	Site is north of 107 Ave. NW and east of McQueen Rd NW. Site on the north side of 144A St. NW in front of McQueen Pk. Commencing in front of the 144A St.

	2017				
Site #	Lg Litter	Street Name	Site Description		
			Site is east of 114A St. NW. Site on south side of 51 Ave. NW		
69	1	51 AVENUE NW	commencing at house # 11415 proceeding east 200'.		
71	1	110 STREET NW	Site is north of 64 Ave. NW and south of 65 Ave. NW. Site is on the west side of 110 St. NW commencing at 65 Ave. NW and proceeding south for 200'.		
74	1	GATEWAY BOULEVARD NW	Just N of 51 Ave. NW. Site on east side of Gateway Blvd. NW along Koch Motors fence line.		
80	1	106 AVENUE NW	Site is east of 48 St. NW. Site on the south side of 106 Ave. NW commencing at 48 St NW in front of Bible Church.		
84	1	ROPER RD NW	Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at # 5918 CCI Thermal Technologies.		
90	1	33 AVENUE NW	Site is west of 108 St. NW. Site on north side of 33 Ave. NW commencing at house # 10808.		
91	1	111 STREET NW	Site is north of 40 Ave. NW. Site on west side of 111 St. NW. Site moved due to construction.		
92	1	114 STREET NW	Site is south of 42 Ave. NW. Site on the west side of 114 St. NW commencing at 42 Ave. NW at house #4204.		
93	1	35 AVENUE NW	Site is west of 113 St. NW across from house # 11347. Site on north side of 35 Avenue commencing at 114 St. NW in parkland.		
97	1	BURTON ROAD NW	East of Terwillegar Rd. and north of Butterworth Dr. Site on east side of Burton Road commencing at bus stop 4383 along Aspen Gardens Parkland.		
102	1	CAMERON HEIGHTS DR.	Off of Anthony Henday NW. Site commencing at corner of Cameron Heights Dr. and Caldwell Way on east side of street proceeding north.		
107	1	199 STREET NW	Site is on the west side of 199 St. NW commencing north of 23 Ave.		
111	1	154 AVENUE NW	Site is on 154 Ave. NW; west of 133 St. NW. Site begins at house # 13322 and proceeds to house # -13342.		
1	0	WESTVIEW BLVD. NW	Site is on the south side of Westview Blvd. at the intersection of Westview Blvd. and Winterburn Rd.		
4	0	155 STREET NW	Site is south of 128 Ave. NW. Site is on 155 St. NW across from the Hexion chemicals gate on the west side of the street.		
7	0	135A AVENUE NW	Site is on the south side of 135A Avenue commencing at intersection of 131 St. and 135A Avenue.		
14	0	168A AVENUE NW	Site is on 168A Avenue NW. Site is west of 76 St. NW and east of 79 St.		
15	0	63 STREET NW	Site is north of 144A Ave. NW. Site is on 63 St. beginning at house # 1407 and ending at house # 14419.		
20	0	42 STREET NW	Site is South of 132A Ave. and North of 131 Ave. Site on 42 St. NW begins at house #13107 and ends at #13203.		
25	0	124 AVENUE NW	Victoria Trail & 118 Avenue: Proceed west on 118 Ave. and turn right onto 50 St. Proceed to 123 and turn left. Take next right onto 51 St. and proceed to 124 Ave. NW. Site is on the north side of 124 Ave. beginning at house # 5104.		

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Site #	Lg Litter	Street Name	Site Description
26	0	121 AVENUE NW	118 Ave. & 50 St.: Proceed west on 118 Ave. to 62 St. NW. Turn right and proceed north to 121 Ave. Turn left onto 121Avenue. Site on 121 Ave. NW begins at the SE corner of 63 St. & 121 Ave. N.
42	0	95 STREET NW	Site on 95 ST. NW North of 124 Ave. commencing at house # 12402. Site on east side of 95 St. commencing at corner of 124 Ave. and 95 St.
53	0	106 AVENUE NW	Site is west of 129 St. NW. Site is on the south side of 106 Ave. commencing at the corner of 106 Ave. and 129 St. NW at house # 12930.
54	0	103 AVENUE NW	Site is west of 137 St. NW. Site is on the north side of 103 Ave. NW commencing at house # 13703.
57	0	146 STREET NW	Site is north of 106 Ave. NW. Site is on the west side of 146 St. NW commencing at house # 10607.
58	0	145 STREET NW	Site is south of 82 Ave. NW. Site is on the west side of 145 St. NW commencing at 82 Ave. NW.
59	0	RIO TERRACE DRIVE NW	Site is west of 151 St. NW. Site is on the north side of Rio Terrace Dr. NW commencing across the street from house #14902.
62	0	164 STREET NW	Site is south of 88 Ave. and north of 87 Ave. Site is on the east side of 164 St. NW commencing in front of house #8707.
65	0	90 AVENUE NW	Site is west of 184 St. NW. Site is on the north side of 90 Ave. NW commencing at intersection of 90 Ave. And 184 St. at house #18403.
67	0	219 STREET NW	219 STREET NW - North of 94A Ave. NW. House #9461
77	0	73 AVENUE NW	Site is west of 91 St. NW . Site on north side of 73 Avenue NW at commencing at 91 St.
78	0	94 STREET NW	Site is north of 92 Ave. NW. Site is on the east side of 94 Street NW in front of the park commencing at house # 9230.
88	0	99 STREET NW	Site is north of 45 Ave. NW. Site on the east side of 99 St., NW commencing at house # 4505 just north of the bus stop.
94	0	32 AVENUE NW	Site is east of 115 and west of 114 St. NW. Site on the south side of 32 Ave. NW commencing at house # 11404.
98	0	49 AVENUE NW	Site is east of 151 St. NW. Site on east side of 49 Ave. NW proceeding north and commencing opposite house # 15164.
99	0	ROUTLEDGE ROAD NW	Site is north of Rabbit Hill Rd. Site is on the north side of Rouledge Rd. NW commencing opposite house # 301 and proceeds west.
103	0	WEDGEWOOD BLVD	Site is on Wedgewood Blvd E of Anthony Henday Dr. and south of Lessard. Site is on Wedgewood Blvd. across from house #1190 beginning at the first lamp post and proceeding north, in Parkland.
105	0	54 AVENUE NW	54 Site is west of 202 St. NW. Site is on the south side of 54 Ave. NW commencing at house #20203.
112	0	116 STREET NW	Site is north of 32A Ave. NW. Site is on 116 St. NW commencing at house #11604.
113	0	99 AVENUE NW	Site is west of 89 St. NW. Site is on the south side of 99 Avenue NW across from the River Grande Condo Development Site commences at 92 St. NW and proceeds east.

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Site ID #:	Sm Litter	Street Name	Site Description
33	45	119 AVENUE NW	Site north of Coliseum Transit Centre (76 St. NW) . Site on
49	45	JASPER AVENUE	Site is west of 111 St. NW. Site on South side of Jasper Ave.
82	44	92 AVENUE NW	Site is west of 34 St. NW. Site on the north side of 92 Avenue
101	33	ANTHONY HENDAY DR.	Site is on Anthony Henday Dr - West of 127 St. NW and East of
34	30	80 STREET NW	80 St NW - just North of 116 Ave. Site is 100m north of 116 Ave. adjacent to Parkdale recycling depot.
21	29	50 STREET NW	Site is just south of Hermitage Rd. south of Kennedale Shopping Centre.
76	29	82 AVENUE (Whyte Ave.)	Site is on 82 Ave. NW just west of 105 St.
115	27	JASPER AVENUE NW	Site is on the south side of Jasper Avenue NW between 102 St. NW and 103 St. NW.
108	23	ELLERSLIE RD	Site is east of 111 St. Site is on the south side of Ellerslie Rd. in front of the Ellerslie Rugby Club.
43	21	117 AVENUE NW	117 AVENUE NW - End of site is at corner of 101 St and 117 Ave. Site is between 101 St and 102 St.
22	19	YELLOWHEAD TRAIL	Site on Yellowhead Tr. Site is 500m East of 50 St. and West of Victoria Trail.
100	19	TERWILLEGAR DRIVE NW	NE of Anthony Henday Dr. Site is on west side of Terwillegar Dr. NW 50 meters south of Haddow Dr.
89	17	19 AVENUE NW	Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW across from Tim Horton's.
16	16	146 AVENUE NW	Site is West of 50 St. NW. Site is on the north side of 146 Ave. NW beginning in front of the Casselwood Shopping Centre and ending just before house #5116.
2	15	YELLOWHEAD TRAIL	Site is west of 190 St. between 184 St. and Anthony Henday Dr.
23	15	118 AVENUE NW	Site is on 118 Ave. at 38 St. NW. Site is on the north side of 118 Ave. NW and begins at Shoppers Drug Mart proceeding west 200'.
46	15	107A AVENUE NW	Site is west of 97 St. Site is on the north side of 107A Ave. NW beginning at 98 Street.
48	14	100 AVENUE NW	Site is west of 102 St. Site is on the north side of 100 Ave. NW across from Riverview Inn (was Econo Lodge) commencing at house #10207.
84	14	ROPER RD NW	Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at # 5918 CCI Thermal Technologies.
11	13	97 STREET NW	Site is on 97 St. south of 144 Ave.
17	13	KIRKNESS ROAD NW	Site is West of 30 St. NW. Site is on the north side of Kirkness Rd. NW in Kirkness Park immediately west of Kirbness School.
41	13	YELLOWHEAD TRAIL NW	Proceed east on Yellowhead Trail. Site on ramp to 82 St. NW. Site beginning at pumping station and proceeding west.
86	13	23 AVENUE NW	Site is west of 66 St. NW. Site is on the north side of 23 Ave. NW adjacent to Mill Wood Pk.

	2017				
Site ID #:	Sm Litter	Street Name	Site Description		
3	12	107 AVENUE NW	Site is on the south side of 107 Ave; East of Mayfield Road. Site is adjacent to Jasper Place Curling Club.		
38	12	108 AVENUE NW	108 Ave West of 93 St,. Site on north side of 108 Ave. NW beginning at the Baptist Fellowship Building.		
47	12	103 AVENUE NW	Site is east of 101 St Site is on the north side of 103 Ave. beginning at SE corner of 101 St. in front of parking lot area opposite Capital Clean.		
117	12	YELLOWHEAD TR	Travelling west on Yellowhead Tr. The site is on Yellowhead Tr. 200m east of the Winterburn exit.		
40	11	91 STREET NW	91 STREET NW- N of 117 Ave. NW. Site is on east side of 91 St. NW beginning at house #11705.		
123	11	109 STREET NW	Site is in front of the Highlevel Diner on 109 St. at 89 Ave. NW.		
45	10	93 STREET NW	Site is north of 112 Ave., on the east side of 93 St. NW commencing at house #11207.		
63	10	170 St - near West Edm Mall	Site is north of 90 Ave. NW. Site is on the east side of 170 St. commencing at 90 Ave.		
70	10	68 AVENUE NW	Site is east of 109 St. NW . Site on 68 Ave. NW on north side of street commencing at intersection of 109 St. and 68 Ave. proceeding east for 200'.		
104	10	199 STREET NW	Site is west of Anthony Henday and south of 45 Ave. NW. Site is on the east side of 199 St. NW terminating at 45 Ave. Site in front of River West Christian Church.		
50	9	107 St. NW	Site is north of 109 Ave. on east side of the street commencing at the NE corner of 107 St and 109 Avenue in park across the street from the school yard		
121	9	112 AVENUE NW	Site is on the south side of 112 Ave. NW commencing 100 feet west of 82 St. NW and proceeding east. Site starts in front of the Highland's Plaza and continues in front of the Highland's Apt. Building.		
122	9	50 STREET NW	Site is on 50 St. NW south of Manning Dr. and north of 137 Ave. NW. Site is in front of the Red Robin Restaurant. Site is in the Clareview Town Centre Site.		
5	8	YELLOWHEAD TRAIL NW	Site is on the south side of Yellowhead Trail NW. Site is on the south side of the ramp to St. Albert Trail NW		
13	8	88 STREET NW	Site is just north of 153 Ave. NW. Site is on 88 St. and begins at the corner of 156 Avenue proceeding north and beginning at house # 15615.		
35	8	JASPER AVENUE NW	Site on south side of Jasper Ave. between 82 St & 83 St.		
36	8	JASPER AVENUE NW	Jasper Ave. at 90 St. NW. Site is on west boulevard commencing at 90St. NW in front of Boardwalk Centre and proceeding south.		
6	7	134 AVENUE NW	Site is west of 142 St. between 142 St. and St. Albert Trail on the north side of the street.		
72	7	WHITEMUD AVENUE	Site is west of 106 St. NW on the ramp from Whitemud Avenue to 106 St. NW.		
75	7	104 STREET NW	Site is north of 64 Ave. NW. Site is on the east side of 104 St., NW commencing at 64 Ave. at house #6404. NW.		

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Site ID #:	Sm Litter	Street Name	Site Description		
85	7	50 STREET NW	Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200' North of 44 Ave. NW.		
114	7	WAYNE GRETZKY DR.	Site is south of 119 Avenue in the Blvd. of parking lot B of Rexall Place on Wayne Gretzky Dr.		
116	7	YELLOWHEAD TR	Traveling eastbound on Yellowhead Trail the site is just before the Victoria Trail exit.		
18	6	EVERGREEN DRIVE NW	Site is East of Fir Ave. NW. Site ion Evergreen Dr. NW begins at East Boundary of Community Park and ends at the West boundary at Evergreen Way.		
32	6	77 STREET NW	Site on 77 St. NW south of 121 Ave. NW. Site is on east side of 77 St. commencing at house # 12118.		
54	6	103 AVENUE NW	Site is west of 137 St. NW. Site is on the north side of 103 Ave. NW commencing at house # 13703.		
120	6	92 STREET NW	Site is on 92 St. NW commencing at 106A Ave. where the LRT crossing is.		
44	5	113 AVENUE NW	Site is on the north side of 113 Ave. NW west of 97 St.		
52	5	57 STREET NW	Victoria Trail & 118 Avenue: Start at NE corner of 57 St and 122 Ave, proceed North		
69	5	51 AVENUE NW	Site is east of 114A St. NW. Site on south side of 51 Ave. NW commencing at house # 11415 proceeding east 200'.		
87	5	94 STREET NW	Site is north of 45 Ave. NW. Site is on the west side of 94 St. NW between Dresser-Rand and Daco Industries Inc.		
91	5	111 STREET NW	Site is north of 40 Ave. NW. Site on west side of 111 St. NW. Site moved due to construction.		
1	4	WESTVIEW BLVD. NW	Site is on the south side of Westview Blvd. at the intersection of Westview Blvd. and Winterburn Rd.		
28	4	127 AVENUE NW	Turn left (west) onto 127 Ave. Site on 127 Ave NW beginning at the north west corner of 67 St.		
64	4	170 St - south of West Edmonton Mall	Site on west side of 170 St. south of 69 Avenue. just south of the Husky Station.		
110	4	MERIDIAN ST	Site is north of West Railway St. Site on west side of Meridian St. commencing at RR warning sign and proceeding south.		
119	4	JASPER AVENUE NW	Site is in Rice Howard Way. Site is on the south side of Jasper Ave. beginning at 100A St. and proceeding east.		
29	3	127 AVENUE NW	Proceeding west on Yellowhead Trail, turn north onto 66 ST. and proceed to 127 Ave. NW. Turn west onto 127 Ave. Site begins west of 73 St.		
42	3	95 STREET NW	Site on 95 ST. NW North of 124 Ave. commencing at house # 12402. Site on east side of 95 St. commencing at corner of 124 Ave. and 95 St.		
66	3	89 AVENUE NW	Site is west of 213 St. NW - 21303. Site is on the north side of 89 Ave. NW commencing at intersection of 213 St. and 89 Ave. at house #21303.		
95	3	OCKENDEN PLACE NW	Site is east of Rabbit Hill Rd NW. Site on east side of Ockenden Place NW commencing at fire hydrant # 12916.		

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Site ID #:	Sm Litter	Street Name	Site Description
102	3	CAMERON HEIGHTS DR.	Off of Anthony Henday NW. Site commencing at corner of Cameron Heights Dr. and Caldwell Way on east side of street proceeding north.
109	3	16A AVENUE	Site on south side of 16A Avenue east of 34 St. NW commencing at house #3415.
8	2	123A STREET NW	Site is north of 131 Ave. NW and south of 132 Ave. NW in front of Chalmers Park.
37	2	106A AVENUE NW	Site is on north side of 106A NW commencing at 93 St. at house # 10640.
39	2	110 AVENUE NW	110 Ave West of 92 St. NW - 9003-9123. Site is on south side of 110 Ave. across form St. Marta Rectory in front of parking lot.
61	2	160 STREET NW	Site is north of 91 Ave. NW. Site on the east side of 160 street NW across the street form house #9131. Site is in front of Meadowlark Public School.
73	2	104A STREET NW	Site is north of 52 Ave. NW. Site is on the east side of 104 A St. NW beginning at house # 5219.
74	2	GATEWAY BOULEVARD NW	Just N of 51 Ave. NW. Site on east side of Gateway Blvd. NW along Koch Motors fence line.
78	2	94 STREET NW	Site is north of 92 Ave. NW. Site is on the east side of 94 Street NW in front of the park commencing at house # 9230.
83	2	70 AVENUE NW	Site is on 70 Avenue NW just east of 17 St. NW commencing at the corner of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics.
93	2	35 AVENUE NW	Site is west of 113 St. NW across from house # 11347. Site on north side of 35 Avenue commencing at 114 St. NW in parkland.
96	2	BULYEA ROAD NW	Just N of OEMING RD - 221. Site on east side of Bulyea Rd. commencing at house # 221.
97	2	BURTON ROAD NW	East of Terwillegar Rd. and north of Butterworth Dr. Site on east side of Burton Road commencing at bus stop 4383 along Aspen Gardens Parkland.
106	2	205 STREET NW	Site is on 205 St. NW just south of 60 Ave. NW.
111	2	154 AVENUE NW	Site is on 154 Ave. NW; west of 133 St. NW. Site begins at house # 13322 and proceeds to house # -13342.
7	1	135A AVENUE NW	Site is on the south side of 135A Avenue commencing at intersection of 131 St. and 135A Avenue.
19	1	28 STREET NW	Site is South of 137 Ave. and North of 136 Ave. Site on 28 St. NW begins at house #13605.
20	1	42 STREET NW	Site is South of 132A Ave. and North of 131 Ave. Site on 42 St. NW begins at house #13107 and ends at #13203.
30	1	128 AVENUE NW	Site on 128 Ave. NW just west 78 St. Site on north side of 128 Ave. beginning at house # 7907.

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Site ID #:	Sm Litter	Street Name	Site Description
53	1	106 AVENUE NW	Site is west of 129 St. NW. Site is on the south side of 106 Ave. commencing at the corner of 106 Ave. and 129 St. NW at house # 12930.
55	1	141 STREET NW	Site is north of 107A Ave. NW - Site is on the east side of 141 St. NW commencing at house #10703.
58	1	145 STREET NW	Site is south of 82 Ave. NW. Site is on the west side of 145 St. NW commencing at 82 Ave. NW.
62	1	164 STREET NW	Site is south of 88 Ave. and north of 87 Ave. Site is on the east side of 164 St. NW commencing in front of house #8707.
67	1	219 STREET NW	219 STREET NW - North of 94A Ave. NW. House #9461
79	1	75 STREET NW	Site is north of 96A Ave. NW. Site on right boulevard (east side) of 75 St. NW commencing at 96A Ave.
92	1	114 STREET NW	Site is south of 42 Ave. NW. Site on the west side of 114 St. NW commencing at 42 Ave. NW at house #4204.
94	1	32 AVENUE NW	Site is east of 115 and west of 114 St. NW. Site on the south side of 32 Ave. NW commencing at house # 11404.
103	1	WEDGEWOOD BLVD	Site is on Wedgewood Blvd E of Anthony Henday Dr. and south of Lessard. Site is on Wedgewood Blvd. across from house #1190 beginning at the first lamp post and proceeding north, in Parkland.
112	1	116 STREET NW	Site is north of 32A Ave. NW. Site is on 116 St. NW commencing at house #11604.
118	1	199 STREET NW	Site is on 199 St. NW north of 107 Ave. NW beginning at the entrance to M.A.P. on the east side of the road.
4	0	155 STREET NW	Site is south of 128 Ave. NW. Site is on 155 St. NW across from the Hexion chemicals gate on the west side of the street.
9	0	129 AVENUE NW	Site is on 129 Avenue NW between 119 St. NW and 117 St. NW. Beginning at house # 11804 and proceeding east to house #11822.
10	0	113A STREET NW	Site is on 113A St. north of 134 Ave. NW beginning at house #13419 and ending at house # 13435.
12	0	173A AVENUE NW	Site is on 173A Avenue; west of 108 St. NW and east of 115 St. NW; between house #'s 10810 and 10834.
14	0	168A AVENUE NW	Site is on 168A Avenue NW. Site is west of 76 St. NW and east of 79 St.
15	0	63 STREET NW	Site is north of 144A Ave. NW. Site is on 63 St. beginning at house # 1407 and ending at house # 14419.
24	0	30 STREET NW	Victoria Tail & 118 Ave. Going west on 118 Ave. turn left onto 34 St. then left onto 113 Ave. Proceed to 30 St. NW on right. Site is on 30 St. NW on west side of street beginning at the corner of 113 Ave. and 30 St. NW.
25	0	124 AVENUE NW	Victoria Trail & 118 Avenue: Proceed west on 118 Ave. and turn right onto 50 St. Proceed to 123 and turn left. Take next right onto 51 St. and proceed to 124 Ave. NW. Site is on the north side of 124 Ave. beginning at house # 5104.
26	0	121 AVENUE NW	118 Ave. & 50 St.: Proceed west on 118 Ave. to 62 St. NW. Turn right and proceed north to 121 Ave. Turn left onto 121Avenue. Site on 121 Ave. NW begins at the SE corner of 63 St. & 121 Ave. N.

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Site ID #:	Sm Litter	Street Name	Site Description
27	0	66 STREET NW	66th St. NW - just south of Yellowhead Trail and north of 122 Ave. Going west on 118 Ave. turn right onto 66 ST. NW and proceed north to 122 Avenue NW. Site begins at the SE corner of 66 St. and 122 Ave. proceeding east.
31	0	81 STREET NW	Site on west side of 81 St. NW south of 123 Ave Site begins at house # 12224 proceeding south for 200'.
51	0	120 AVENUE NW	Site is west of 124 St. Site is on the north side of 120 Ave. beginning at house #12402.
56	0	144A STREET NW	Site is north of 107 Ave. NW and east of McQueen Rd NW. Site is on the north side of 144A St. NW in front of McQueen Pk. Commencing in front of the 144A St.
57	0	146 STREET NW	Site is north of 106 Ave. NW. Site is on the west side of 146 St. NW commencing at house # 10607.
59	0	RIO TERRACE DRIVE NW	Site is west of 151 St. NW. Site is on the north side of Rio Terrace Dr. NW commencing across the street from house #14902.
60	0	154 STREET NW	Site is north of 76 Ave. NW. Site is on the west side of 154 St. NW commencing at the NE corner of the school yard of Rio Terrace Elementary School.
65	0	90 AVENUE NW	Site is west of 184 St. NW. Site is on the north side of 90 Ave. NW commencing at intersection of 90 Ave. And 184 St. at house #18403.
68	0	117A STREET NW	Site is north of Whitemud & 46 Ave. NW. Site on east side of 117A north of 46 Ave. commencing at house # 46076.
71	0	110 STREET NW	Site is north of 64 Ave. NW and south of 65 Ave. NW. Site is on the west side of 110 St. NW commencing at 65 Ave. NW and proceeding south for 200'.
77	0	73 AVENUE NW	Site is west of 91 St. NW . Site on north side of 73 Avenue NW at commencing at 91 St.
80	0	106 AVENUE NW	Site is east of 48 St. NW. Site on the south side of 106 Ave. NW commencing at 48 St NW in front of Bible Church.
81	0	68 STREET NW	Site is north of 89 Ave. NW. Site on east side of 68 St. commencing at 89 Ave. NW.
88	0	99 STREET NW	Site is north of 45 Ave. NW. Site on the east side of 99 St., NW commencing at house # 4505 just north of the bus stop.
90	0	33 AVENUE NW	Site is west of 108 St. NW. Site on north side of 33 Ave. NW commencing at house # 10808.
98	0	49 AVENUE NW	Site is east of 151 St. NW. Site on east side of 49 Ave. NW proceeding north and commencing opposite house # 15164.
99	0	ROUTLEDGE ROAD NW	Site is north of Rabbit Hill Rd. Site is on the north side of Rouledge Rd. NW commencing opposite house # 301 and proceeds west.
105	0	54 AVENUE NW	54 Site is west of 202 St. NW. Site is on the south side of 54 Ave. NW commencing at house #20203.
107	0	199 STREET NW	Site is on the west side of 199 St. NW commencing north of 23 Ave.
113	0	99 AVENUE NW	Site is west of 89 St. NW. Site is on the south side of 99 Avenue NW across from the River Grande Condo Development Site commences at 92 St. NW and proceeds east.

2017				
Site ID #:	All Litter	Street Name	Site Description	
21	85	50 STREET NW	Site is just south of Hermitage Rd. south of Kennedale Shopping Centre.	
34	82	80 STREET NW	80 St NW - just North of 116 Ave. Site is 100m north of 116 Ave. adjacent to Parkdale recycling depot.	
101	68	ANTHONY HENDAY DR.	Site is on Anthony Henday Dr - West of 127 St. NW and East of 142 St. NW. Site on south side of Anthony Henday Dr. 300 ft east of the White Mud Creek sign.	
82	65	92 AVENUE NW	Site is west of 34 St. NW. Site on the north side of 92 Avenue in front of the street from Esso Distribution #9210.	
49	61	JASPER AVENUE	Site is west of 111 St. NW. Site on South side of Jasper Ave. commencing at bus stop #1466 and proceeding east. Site is in front of Covenant Health Edmonton General	
46	52	107A AVENUE NW	Site is west of 97 St. Site is on the north side of 107A Ave. NW beginning at 98 Street.	
33	50	119 AVENUE NW	Site north of Coliseum Transit Centre (76 St. NW) . Site on south side of 119 Ave. NW between 77 St. and 78 St. in front of James Kidney Park.	
43	50	117 AVENUE NW	117 AVENUE NW - End of site is at corner of 101 St and 117 Ave. Site is between 101 St and 102 St.	
36	43	JASPER AVENUE NW	Jasper Ave. at 90 St. NW. Site is on west boulevard commencing at 90St. NW in front of Boardwalk Centre and proceeding south.	
22	42	YELLOWHEAD TRAIL	Site on Yellowhead Tr. Site is 500m East of 50 St. and West of Victoria Trail.	
89	41	19 AVENUE NW	Site just east of Gateway Boulevard NW on the north side of 19 Ave. NW across from Tim Horton's.	
100	39	TERWILLEGAR DRIVE NW	NE of Anthony Henday Dr. Site is on west side of Terwillegar Dr. NW 50 meters south of Haddow Dr.	
50	33	107 St. NW	Site is north of 109 Ave. on east side of the street commencing at the NE corner of 107 St and 109 Avenue in park across the street from the school yard	
115	33	JASPER AVENUE NW	Site is on the south side of Jasper Avenue NW between 102 St. NW and 103 St. NW.	
2	32	YELLOWHEAD TRAIL	Site is west of 190 St. between 184 St. and Anthony Henday Dr.	
16	31	146 AVENUE NW	Site is West of 50 St. NW. Site is on the north side of 146 Ave. NW beginning in front of the Casselwood Shopping Centre and ending just before house #5116.	
76	31	82 AVENUE (Whyte Ave.)	Site is on 82 Ave. NW just west of 105 St.	
40	28	91 STREET NW	91 STREET NW- N of 117 Ave. NW. Site is on east side of 91 St. NW beginning at house #11705.	
41	28	YELLOWHEAD TRAIL NW	Proceed east on Yellowhead Trail. Site on ramp to 82 St. NW. Site beginning at pumping station and proceeding west.	
75	28	104 STREET NW	Site is north of 64 Ave. NW. Site is on the east side of 104 St., NW commencing at 64 Ave. at house #6404. NW.	
120	28	92 STREET NW	Site is on 92 St. NW commencing at 106A Ave. where the LRT crossing is.	
5	28	YELLOWHEAD TRAIL NW	Site is on the south side of Yellowhead Trail NW. Site is on the south side of the ramp to St. Albert Trail NW	
108	28	ELLERSLIE RD	Site is east of 111 St. Site is on the south side of Ellerslie Rd. in front of the Ellerslie Rugby Club.	
38	27	108 AVENUE NW	108 Ave West of 93 St,. Site on north side of 108 Ave. NW beginning at the Baptist Fellowship Building.	
45	23	93 STREET NW	Site is north of 112 Ave., on the east side of 93 St. NW commencing at house #11207.	
116	23	YELLOWHEAD TR	Traveling eastbound on Yellowhead Trail the site is just before the Victoria Trail exit.	
117	23	YELLOWHEAD TR	Travelling west on Yellowhead Tr. The site is on Yellowhead Tr. 200m east of the Winterburn exit.	

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Site ID #:	All Litter	Street Name	Site Description
28	22	127 AVENUE NW	Turn left (west) onto 127 Ave. Site on 127 Ave NW beginning at the north west corner of 67 St.
47	22	103 AVENUE NW	Site is east of 101 St Site is on the north side of 103 Ave. beginning at SE corner of 101 St. in front of parking lot area opposite Capital Clean.
11	21	97 STREET NW	Site is on 97 St. south of 144 Ave.
63	21	170 St - near West Edm Mall	Site is north of 90 Ave. NW. Site is on the east side of 170 St. commencing at 90 Ave.
86	21	23 AVENUE NW	Site is west of 66 St. NW. Site is on the north side of 23 Ave. NW adjacent to Mill Wood Pk.
32	19	77 STREET NW	Site on 77 St. NW south of 121 Ave. NW. Site is on east side of 77 St. commencing at house # 12118.
110	19	MERIDIAN ST	Site is north of West Railway St. Site on west side of Meridian St. commencing at RR warning sign and proceeding south.
121	19	112 AVENUE NW	Site is on the south side of 112 Ave. NW commencing 100 feet west of 82 St. NW and proceeding east. Site starts in front of the Highland's Plaza and continues in front of the Highland's Apt. Building.
17	19	KIRKNESS ROAD NW	Site is West of 30 St. NW. Site is on the north side of Kirkness Rd. NW in Kirkness Park immediately west of Kirbness School.
3	17	107 AVENUE NW	Site is on the south side of 107 Ave; East of Mayfield Road. Site is adjacent to Jasper Place Curling Club.
122	17	50 STREET NW	Site is on 50 St. NW south of Manning Dr. and north of 137 Ave. NW. Site is in front of the Red Robin Restaurant. Site is in the Clareview Town Centre Site.
23	16	118 AVENUE NW	Site is on 118 Ave. at 38 St. NW. Site is on the north side of 118 Ave. NW and begins at Shoppers Drug Mart proceeding west 200'.
48	16	100 AVENUE NW	Site is west of 102 St. Site is on the north side of 100 Ave. NW across from Riverview Inn (was Econo Lodge) commencing at house #10207.
70	16	68 AVENUE NW	Site is east of 109 St. NW . Site on 68 Ave. NW on north side of street commencing at intersection of 109 St. and 68 Ave. proceeding east for 200'.
123	16	109 STREET NW	Site is in front of the Highlevel Diner on 109 St. at 89 Ave. NW.
31	15	81 STREET NW	Site on west side of 81 St. NW south of 123 Ave Site begins at house # 12224 proceeding south for 200'.
84	15	ROPER RD NW	Site is west of 59 St. NW. Site on the north side of Roper Rd. NW beginning at # 5918 CCI Thermal Technologies.
104	15	199 STREET NW	Site is west of Anthony Henday and south of 45 Ave. NW. Site is on the east side of 199 St. NW terminating at 45 Ave. Site in front of River West Christian Church.
118	14	199 STREET NW	Site is on 199 St. NW north of 107 Ave. NW beginning at the entrance to M.A.P. on the east side of the road.
35	13	JASPER AVENUE NW	Site on south side of Jasper Ave. between 82 St & 83 St.
44	13	113 AVENUE NW	Site is on the north side of 113 Ave. NW west of 97 St.
114	13	WAYNE GRETZKY DR.	Site is south of 119 Avenue in the Blvd. of parking lot B of Rexall Place on Wayne Gretzky Dr.
52	12	57 STREET NW	Victoria Trail & 118 Avenue: Start at NE corner of 57 St and 122 Ave, proceed North
72	12	WHITEMUD AVENUE	Site is west of 106 St. NW on the ramp from Whitemud Avenue to 106 St. NW.
119	12	JASPER AVENUE NW	Site is in Rice Howard Way. Site is on the south side of Jasper Ave. beginning at 100A St. and proceeding east.

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Site ID #:	All Litter	Street Name	Site Description
13	11	88 STREET NW	Site is just north of 153 Ave. NW. Site is on 88 St. and begins at the corner of 156 Avenue proceeding north and beginning at house # 15615.
87	11	94 STREET NW	Site is north of 45 Ave. NW. Site is on the west side of 94 St. NW between Dresser-Rand and Daco Industries Inc.
29	10	127 AVENUE NW	Proceeding west on Yellowhead Trail, turn north onto 66 ST. and proceed to 127 Ave. NW. Turn west onto 127 Ave. Site begins west of 73 St.
51	10	120 AVENUE NW	Site is west of 124 St. Site is on the north side of 120 Ave. beginning at house #12402.
85	10	50 STREET NW	Site is north of 44 Ave. NW. Site is on the west side of 50 St. NW commencing 200' North of 44 Ave. NW.
6	9	134 AVENUE NW	Site is west of 142 St. between 142 St. and St. Albert Trail on the north side of the street.
64	9	170 St - south of West Edmonton Mall	Site on west side of 170 St. south of 69 Avenue. just south of the Husky Station.
8	8	123A STREET NW	Site is north of 131 Ave. NW and south of 132 Ave. NW in front of Chalmers Park.
18	8	EVERGREEN DRIVE NW	Site is East of Fir Ave. NW. Site ion Evergreen Dr. NW begins at East Boundary of Community Park and ends at the West boundary at Evergreen Way.
37	8	106A AVENUE NW	Site is on north side of 106A NW commencing at 93 St. at house # 10640.
10	7	113A STREET NW	Site is on 113A St. north of 134 Ave. NW beginning at house #13419 and ending at house # 13435.
54	6	103 AVENUE NW	Site is west of 137 St. NW. Site is on the north side of 103 Ave. NW commencing at house # 13703.
69	6	51 AVENUE NW	Site is east of 114A St. NW. Site on south side of 51 Ave. NW commencing at house # 11415 proceeding east 200'.
83	6	70 AVENUE NW	Site is on 70 Avenue NW just east of 17 St. NW commencing at the corner of 17 St. NW and 70 Ave. in front of Precision Coatings & Hydraulics.
91	6	111 STREET NW	Site is north of 40 Ave. NW. Site on west side of 111 St. NW. Site moved due to construction.
95	6	OCKENDEN PLACE NW	Site is east of Rabbit Hill Rd NW. Site on east side of Ockenden Place NW commencing at fire hydrant # 12916.
27	5	66 STREET NW	66th St. NW - just south of Yellowhead Trail and north of 122 Ave. Going west on 118 Ave. turn right onto 66 ST. NW and proceed north to 122 Avenue NW. Site begins at the SE corner of 66 St. and 122 Ave. proceeding east.
39	5	110 AVENUE NW	110 Ave West of 92 St. NW - 9003-9123. Site is on south side of 110 Ave. across form St. Marta Rectory in front of parking lot.
61	5	160 STREET NW	Site is north of 91 Ave. NW. Site on the east side of 160 street NW across the street form house #9131. Site is in front of Meadowlark Public School.
66	5	89 AVENUE NW	Site is west of 213 St. NW - 21303. Site is on the north side of 89 Ave. NW commencing at intersection of 213 St. and 89 Ave. at house #21303.
73	5	104A STREET NW	Site is north of 52 Ave. NW. Site is on the east side of 104 A St. NW beginning at house # 5219.
106	5	205 STREET NW	Site is on 205 St. NW just south of 60 Ave. NW.
109	5	16A AVENUE	Site on south side of 16A Avenue east of 34 St. NW commencing at house #3415.
1	4	WESTVIEW BLVD. NW	Site is on the south side of Westview Blvd. at the intersection of Westview Blvd. and Winterburn Rd.
9	4	129 AVENUE NW	Site is on 129 Avenue NW between 119 St. NW and 117 St. NW. Beginning at house # 11804 and proceeding east to house #11822.

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Site ID #:	All Litter	Street Name	Site Description
96	4	BULYEA ROAD NW	Just N of OEMING RD - 221. Site on east side of Bulyea Rd. commencing at house # 221.
102	4	CAMERON HEIGHTS DR.	Off of Anthony Henday NW. Site commencing at corner of Cameron Heights Dr. and Caldwell Way on east side of street proceeding north.
30	3	128 AVENUE NW	Site on 128 Ave. NW just west 78 St. Site on north side of 128 Ave. beginning at house # 7907.
42	3	95 STREET NW	Site on 95 ST. NW North of 124 Ave. commencing at house # 12402. Site on east side of 95 St. commencing at corner of 124 Ave. and 95 St.
74	3	GATEWAY BOULEVARD NW	Just N of 51 Ave. NW. Site on east side of Gateway Blvd. NW along Koch Motors fence line.
79	3	75 STREET NW	Site is north of 96A Ave. NW. Site on right boulevard (east side) of 75 St. NW commencing at 96A Ave.
81	3	68 STREET NW	Site is north of 89 Ave. NW. Site on east side of 68 St. commencing at 89 Ave. NW.
93	3	35 AVENUE NW	Site is west of 113 St. NW across from house # 11347. Site on north side of 35 Avenue commencing at 114 St. NW in parkland.
97	3	BURTON ROAD NW	East of Terwillegar Rd. and north of Butterworth Dr. Site on east side of Burton Road commencing at bus stop 4383 along Aspen Gardens Parkland.
111	3	154 AVENUE NW	Site is on 154 Ave. NW; west of 133 St. NW. Site begins at house # 13322 and proceeds to house # -13342.
12	2	173A AVENUE NW	Site is on 173A Avenue; west of 108 St. NW and east of 115 St. NW; between house #'s 10810 and 10834.
19	2	28 STREET NW	Site is South of 137 Ave. and North of 136 Ave. Site on 28 St. NW begins at house #13605.
55	2	141 STREET NW	Site is north of 107A Ave. NW - Site is on the east side of 141 St. NW commencing at house #10703.
60	2	154 STREET NW	Site is north of 76 Ave. NW. Site is on the west side of 154 St. NW commencing at the NE corner of the school yard of Rio Terrace Elementary School.
68	2	117A STREET NW	Site is north of Whitemud & 46 Ave. NW. Site on east side of 117A north of 46 Ave. commencing at house # 46076.
78	2	94 STREET NW	Site is north of 92 Ave. NW. Site is on the east side of 94 Street NW in front of the park commencing at house # 9230.
92	2	114 STREET NW	Site is south of 42 Ave. NW. Site on the west side of 114 St. NW commencing at 42 Ave. NW at house #4204.
7	1	135A AVENUE NW	Site is on the south side of 135A Avenue commencing at intersection of 131 St. and 135A Avenue.
20	1	42 STREET NW	Site is South of 132A Ave. and North of 131 Ave. Site on 42 St. NW begins at house #13107 and ends at #13203.
24	1	30 STREET NW	Victoria Tail & 118 Ave. Going west on 118 Ave. turn left onto 34 St. then left onto 113 Ave. Proceed to 30 St. NW on right. Site is on 30 St. NW on west side of street beginning at the corner of 113 Ave. and 30 St. NW.
53	1	106 AVENUE NW	Site is west of 129 St. NW. Site is on the south side of 106 Ave. commencing at the corner of 106 Ave. and 129 St. NW at house # 12930.
56	1	144A STREET NW	Site is north of 107 Ave. NW and east of McQueen Rd NW. Site is on the north side of 144A St. NW in front of McQueen Pk. Commencing in front of the 144A St.
58	1	145 STREET NW	Site is south of 82 Ave. NW. Site is on the west side of 145 St. NW commencing at 82 Ave. NW.
62	1	164 STREET NW	Site is south of 88 Ave. and north of 87 Ave. Site is on the east side of 164 St. NW commencing in front of house #8707.

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Site ID #:	All Litter	Street Name	Site Description
67	1	219 STREET NW	219 STREET NW - North of 94A Ave. NW. House #9461
71	1	110 STREET NW	Site is north of 64 Ave. NW and south of 65 Ave. NW. Site is on the west side of 110 St. NW commencing at 65 Ave. NW and proceeding south for 200'.
80	1	106 AVENUE NW	Site is east of 48 St. NW. Site on the south side of 106 Ave. NW commencing at 48 St NW in front of Bible Church.
90	1	33 AVENUE NW	Site is west of 108 St. NW. Site on north side of 33 Ave. NW commencing at house # 10808.
94	1	32 AVENUE NW	Site is east of 115 and west of 114 St. NW. Site on the south side of 32 Ave. NW commencing at house # 11404.
103	1	WEDGEWOOD BLVD	Site is on Wedgewood Blvd E of Anthony Henday Dr. and south of Lessard. Site is on Wedgewood Blvd. across from house #1190 beginning at the first lamp post and proceeding north, in Parkland.
107	1	199 STREET NW	Site is on the west side of 199 St. NW commencing north of 23 Ave.
112	1	116 STREET NW	Site is north of 32A Ave. NW. Site is on 116 St. NW commencing at house #11604.
4	0	155 STREET NW	Site is south of 128 Ave. NW. Site is on 155 St. NW across from the Hexion chemicals gate on the west side of the street.
14	0	168A AVENUE NW	Site is on 168A Avenue NW. Site is west of 76 St. NW and east of 79 St.
15	0	63 STREET NW	Site is north of 144A Ave. NW. Site is on 63 St. beginning at house # 1407 and ending at house # 14419.
25	0	124 AVENUE NW	Victoria Trail & 118 Avenue: Proceed west on 118 Ave. and turn right onto 50 St. Proceed to 123 and turn left. Take next right onto 51 St. and proceed to 124 Ave. NW. Site is on the north side of 124 Ave. beginning at house # 5104.
26	0	121 AVENUE NW	118 Ave. & 50 St.: Proceed west on 118 Ave. to 62 St. NW. Turn right and proceed north to 121 Ave. Turn left onto 121Avenue. Site on 121 Ave. NW begins at the SE corner of 63 St. & 121 Ave. N.
57	0	146 STREET NW	Site is north of 106 Ave. NW. Site is on the west side of 146 St. NW commencing at house # 10607.
59	0	RIO TERRACE DRIVE NW	Site is west of 151 St. NW. Site is on the north side of Rio Terrace Dr. NW commencing across the street from house #14902.
65	0	90 AVENUE NW	Site is west of 184 St. NW. Site is on the north side of 90 Ave. NW commencing at intersection of 90 Ave. And 184 St. at house #18403.
77	0	73 AVENUE NW	Site is west of 91 St. NW . Site on north side of 73 Avenue NW at commencing at 91 St.
88	0	99 STREET NW	Site is north of 45 Ave. NW. Site on the east side of 99 St., NW commencing at house # 4505 just north of the bus stop.
98	0	49 AVENUE NW	Site is east of 151 St. NW. Site on east side of 49 Ave. NW proceeding north and commencing opposite house # 15164.
99	0	ROUTLEDGE ROAD NW	Site is north of Rabbit Hill Rd. Site is on the north side of Rouledge Rd. NW commencing opposite house # 301 and proceeds west.
105	0	54 AVENUE NW	54 Site is west of 202 St. NW. Site is on the south side of 54 Ave. NW commencing at house #20203.
113	0	99 AVENUE NW	Site is west of 89 St. NW. Site is on the south side of 99 Avenue NW across from the River Grande Condo Development Site commences at 92 St. NW and proceeds east.