



February 17, 2023

City of Waterloo
265 Lexington Court
Waterloo, ON N2J 4A8

Re: Uptown Waterloo Parking Utilization Study Update

TRANS-PLAN TRANSPORTATION INC. ("TRANS-PLAN") is pleased to submit this Parking Utilization Study Update ("Report") for the Uptown area of the City of Waterloo. This Report provides a 2022 update to the Uptown Waterloo Parking Utilization Study Update that was completed in December 2019 and is intended to be updated for three more years afterwards.

Our findings indicate that, based on 2022 parking supply, the peak parking utilization during the weekday period decreased from 61% in 2019 to 40% in 2022. From 2019 to 2022, the City-owned parking lot demand decreased by 20%; the privately-owned lot demand decreased by 21%; and the on-street parking demand decreased by 8%.

Our findings also suggest that the peak parking utilization during the weekend period was observed to have decreased from 36% in 2019 to 25% in 2022. From 2019 to 2022, the City-owned parking lot demand decreased by 9%, the privately-owned lot demand decreased by 12%, and the on-street parking demand decreased by 6%.

A consideration is the effect of the COVID-19 pandemic on the survey results, but the infection control measures in place during the 2022 survey were minor. Access to public buildings and businesses were not officially restricted, but businesses could impose their own restrictions. Some people may have been affected by some of these restrictions. As parking demand may still have been affected by the pandemic conditions, further data collection campaigns are recommended once operations return to normal to fully understand the extent of the impact of public transit ridership on parking demands in Uptown Waterloo.

Sincerely,



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Partner, Engineer



John Fischer
Traffic Survey Supervisor

Trans-Plan Transportation Inc.
Transportation Consultants

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1. INTRODUCTION

Trans-Plan has been retained by the City of Waterloo to conduct a Parking Utilization Study in the Uptown Waterloo area. The purpose of conducting the study is to determine the impacts of ION ridership on parking demand in the study area after the ION light rail transit system became operational in June 2019. This Report includes the following components:

Parking Utilization Study

- Collection of data from parking utilization surveys conducted for one weekday, Tuesday, October 25, 2022, and one weekend day, Saturday, October 22, 2022, between the hours of 8:00AM and 8:00PM
- A record of parking demand on-street and in private and City-owned parking lots and garages within Uptown Waterloo
- An analysis of weekday and Saturday parking demand trends based on survey data, compared with data collected in the Uptown Waterloo Parking Utilization Study Update completed in December 2019 with reference to the initial parking Utilization Study completed in 2016

This report complements the Uptown Waterloo Parking Utilization Study Update prepared by Paradigm Transportation Solutions Limited in December 2019, which conducted surveys to determine the level of parking utilization of on-street parking spaces, City-owned parking facilities, and private lots within Uptown Waterloo.

Due to COVID-19 pandemic control measures that were in place during the 2022 survey, the collected data results may not be an accurate representation of typical operating conditions. At the time of the 2022 survey, there were no COVID-19 related capacity limits on indoor public settings. There were no official masking nor proof of vaccination requirements.

2. SITE LOCATION

The study area, shown in Figure 1, includes several neighbourhoods located within the Uptown Waterloo in the City of Waterloo. The Uptown area is home to various businesses, with a mix of commercial and restaurant uses fronting King Street (a north-south thoroughfare that runs through the Region of Waterloo). There are a variety of multi-storey residential buildings amongst the commercial buildings, mainly along King Street. Single-family homes are found mainly in the northern and southern parts of the study area farther from King Street. The parking utilization surveys were completed for the Urban Growth Centre boundary as defined in the City's Official Plan. The study area limits are generally bounded by Elgin Street to the north, Union Boulevard / Union Street East to the south, the intersection of Bridgeport Road East and Moore Avenue North to the east, and the intersection of Erb Street West and Avondale Avenue North / Avondale Avenue South to the west.

In order to facilitate the data collection process, the study area was divided into seven smaller survey zones – North, West, Middle, East, South, and areas including and surrounding the Uptown Parkade and the Sun Life Parking garage, but that was only for data collection purposes. Analysis was done based on the same four zones which were used in the 2019 report. A map illustrating the four data analysis and reporting zones is provided in Figure 2. This map shows the same zones as the zone map found as Figure 1.3 of the Uptown Waterloo Parking Utilization Study Update (2019).

3. EXISTING CONDITIONS

3.1 Existing Parking Supply

An existing parking supply inventory was collected prior to the surveying campaign. The inventory was collected and categorized as follows:

- Public, city-owned parking lots;
- On-street parking;
- Private / commercial parking lots

During the days of the survey, some parking stalls were temporarily unavailable for parking due to several spaces being sacrificed to accommodate restaurant patios. Table 1 below shows the actual number of available parking stalls categorized by type for the whole study area in addition to the breakdown for each study zone.

Table 1 – 2022 Actual Parking Supply by Type

Parking Area	Capacity (stalls)	Percent of Supply	Percent of Total
Study Area			
City-Owned Lots	1984	35%	
On-Street Spaces	435	8%	
Private Lots	3193	57%	
Total	5612	100%	
North Zone			
City-Owned Lots	51	12%	3%
On-Street Spaces	41	10%	9%
Private Lots	322	78%	10%
Total	414	100%	7%
West Zone			
City-Owned Lots	534	38%	27%
On-Street Spaces	154	11%	35%
Private Lots	729	51%	23%
Total	1417	100%	25%
East Zone			
City-Owned Lots	698	42%	35%
On-Street Spaces	112	7%	26%
Private Lots	869	52%	27%
Total	1679	100%	30%
South Zone			
City-Owned Lots	701	33%	35%
On-Street Spaces	128	6%	29%
Private Lots	1273	61%	40%
Total	2102	100%	37%

The weekday counts of the actual parking supply were used in the table above, and they included the counts of the Sun Life parking garage. The Sun Life parking garage was closed on Saturday. Based on the actual parking supply inventory, there is a total of 5,612 available parking spaces (excluding stalls occupied by patios) within the study area, with most of the parking supply located within the South zone, and large percentages in the East and West zones. Thirty-five percent of the study area's City-owned lots were located within each of the East and South zones, while the West zone contained the largest percentage of on-street parking (35%). The South zone had the greatest private parking lot supply (40%).

The parking supply values which included the maximum potential 2022 parking supply (including stalls occupied by patios) are shown in Table 2 below. The values in the table below were subsequently used for the parking utilization calculations in this report.

Table 2 – 2022 Maximum Potential Parking Supply by Type

Parking Area	Capacity	Percent of Supply	Percent of Total
Study Area			
City-Owned Lots	1984	35%	
On-Street Spaces	435	8%	
Private Lots	3272	57%	
Total	5691	100%	
North Zone			
City-Owned Lots	51	11%	3%
On-Street Spaces	41	9%	9%
Private Lots	368	80%	11%
Total	460	100%	8%
West Zone			
City-Owned Lots	534	38%	27%
On-Street Spaces	154	11%	35%
Private Lots	729	51%	22%
Total	1417	100%	25%
East Zone			
City-Owned Lots	698	42%	35%
On-Street Spaces	112	7%	26%
Private Lots	869	52%	27%
Total	1679	100%	30%
South Zone			
City-Owned Lots	701	33%	35%
On-Street Spaces	128	6%	29%
Private Lots	1306	61%	40%
Total	2135	100%	37%

Figure 3 shows the location of the various types of parking supply available throughout the study area. Parking supply values (actual and maximum potential supply) for each parking site throughout the study area are included as columns in the parking utilization tables in Appendix A.

A list of City-owned parking lots is provided below in Table 3. Detailed descriptions of each lot's regulations and rates can also be found in Appendix A.

Table 3 – Existing City-Owned Parking Lot Inventory

Study Area Location	Public Parking Lot Name, Location	Parking Regulations and Rates (Generalized)	Number of Stalls
East	Station lot, incl. expansion Regina St. S & Erb St. E	Permit and 2 Hours Free (extendable)	67
East	Station lot, incl. expansion Regina St. S & Erb St. E	Permit	47
East	Willow St. at Spur Line Trail	Permit	9
East	Regina Lot, Regina St. S at Laurel Trail	Permit	118
East	Uptown Parkade, 60 King St. S	Pay and Display or Permit	60
East	Uptown Parkade, 60 King St. S	Permit	397
North	Temporary Lot B, NE corner Bridgeport Rd. E & Regina St. N	Permit and 2 Hours Free (extendable)	34
North	Temporary Lot B, NE corner Bridgeport Rd. E & Regina St. N	Permit	17
South	City Centre Parking Lot, W side of William St. E, N of Herbert St.	Permit	108
South	City Centre Parking Lot, W side of William St. E, N of Herbert St.	2 Hours Free (City Centre Customers)	53
South	Herbert Parking Lot, S side of William St. E, E of Regina St.	Permit	12
South	William Parking Lot, S side of William St. E, E of Regina St. S	Permit	30
South	Waterloo Town Square S Lot E side Caroline St., S of Willis Way	Permit	55
South	Waterloo Town Square S Lot E side Caroline St., S of Willis Way	2 Hours Free	218
South	Caroline S Lot - NW corner of Caroline St. S & Alexandra Av.	Permit	97
South	Caroline N Lot -W side of Caroline St. S - S of Willis Way	Permit	112
South	Alexandra Lot, SW corner of Alexandra Av. & Caroline St. S	Permit	16
West	Perimeter & Gallery Lot, 31 Caroline St. N	Permit	60
West	Perimeter & Gallery Lot, 31 Caroline St. N	2 Hours Free	12
West	Perimeter & Gallery Lot, 31 Caroline St. N	Free (Museum Customers)	10
West	Library Lot, SW corner of Albert St. & Princess St. W	Pay & Display	27

West	Waterloo Town Square N lot, Erb St. W	2Hr M-F 8-5	217
West	Dupont lot (Library), NW corner of Dupont St. W & Caroline St.	Pay & Display	13
West	Dupont lot (Library), NW corner of Dupont St. W & Caroline St.	Permit	105
West	Museum Lot, 83 Erb St. W at Father David Bauer Dr.	Permit	36
West	Museum Lot, 83 Erb St. W at Father David Bauer Dr.	2 Hours Free	54
Total Number of Stalls:			1984

3.2 Parking Costs and General Parking Regulations

While the parking utilization survey was in progress, parking costs and associated regulations for each parking type (on-street parking, City-owned lots, and private lots) were analyzed. It was noted that parking in the Uptown Waterloo area is generally restricted to a maximum of two hours, though paid parking and parking by permit options were also readily available. Table 4 provides a summary of the available parking facilities for each parking type.

Table 4 – Parking Costs and Restrictions

Parking Type Costs / Restrictions	Capacity (Stalls)	Percent of Supply	Percent of Total
On-Street Parking			
3 Hours Free	138	31.7	2.4
2 Hours Free	97	22.3	1.7
1 Hour Free	188	43.2	3.3
30 Minutes Free	8	1.8	0.1
15 Minutes Free	1	0.2	0
Accessible, With Permit, No Limit	2	0.5	0
Vaccine Delivery	1	0.2	0
Sub-total:	435	100	7.6
Public Lot Parking			
2 Hours Free	501	25.3	8.8
2 Hours Free (for City Centre Customers Only)	53	2.7	0.9
Permit and 2 Hours Free (extendable)	101	5.1	1.8
Permit	1219	61.4	21.4
Pay & Display or Permit	60	3	1.1
Pay & Display	40	2	0.7

Free for Museum Customers	10	0.5	0.2
Sub-total:	1984	100	34.9
Private Parking Lots			
n/a	3272	100.0	57.5
Sub-total:	3272	100.0	57.5
TOTAL:	5691		100

The findings based on our observations are described as follows:

- There are 435 on-street parking spaces available for free parking within the Uptown Waterloo area, with parking permitted from durations of 15 minutes to 3 hours, depending on location;
- There are 1,984 parking spaces available in City-owned lots that are divided between free parking, permit parking, and paid parking. The largest public lot (parking structure) is the Uptown Parkade, in the East Zone, which has 457 spaces available. It is available for use by Permit holders during weekdays and also for others at a rate of \$3.50 per hour;
- There are 3,272 parking spaces available in private-owned parking facilities that are designated as “Private”.

4. PARKING UTILIZATION SURVEYS

Parking utilization surveys were conducted for the parking facilities located within the study area for one weekday (Tuesday, October 25) and one weekend day (Saturday, October 22) every half-hour, between the hours of 8:00 AM and 8:00 PM.

4.1 Parking Survey Methodology

The study area was divided into seven survey zones to facilitate the data collection process within the 30-minute survey intervals. The size of the East, West, and South driving zones were reduced for ease of data collection and for increased data accuracy. Three new walking zones, referred to as the Middle, Uptown Parkade and Sun Life zones, were subsequently created, and were each surveyed by a single surveyor on foot. The East, West, and South zones were each delegated to teams of two surveyors each, with one surveyor responsible for operating the vehicle while the other surveyor recorded the data. To ensure the accuracy of the collected data, support staff were also available on-site to assist the survey team and to provide relief whenever any surveyor needed a break. At the parking garages, occupancy was recorded by the surveyors on foot every half hour.

The Sun Life parking garage at 28 John Street in the South Zone was in use on Tuesday, October 25, but not on Saturday, October 22. Parking supply numbers were based on the Tuesday maximum supply count, with the Sun Life Lot being available on weekdays.

With the completion of a 12-hour survey, a total of 24 entries of parking data were recorded for each parking area for one weekday and one Saturday over the course of the data collection campaign. Data sheets containing the survey data are provided in Appendix A.

4.2 Parking Report Methodology

To maintain consistency with previous parking utilization submissions to the City, the Report divided the study area into four zones identical to the zones established in the 2019 Parking Utilization Study update and the results are presented in a similar manner. As a result, the counts conducted in the Middle surveying zone were reassigned to the standard North, East, West, and South zones for reporting purposes.

4.3 Weekday Parking Demand and Utilization

For readability purposes, Table 5, Table 6, Table 7, and Table 8 summarize the parking demands for each parking type (on-street parking, City-owned parking, and private parking) categorized by study zone.

Table 5 – Weekday Parking Demand and Utilization Summary Table (Total)

Parking Area	Peak Time	Peak Utilization	Surplus (stalls)	Supply (stalls)	Peak Demand (%)
Study Area	1300	2296	3395	5691	40%
North	1200	186	274	460	40%
East	1300	667	1012	1679	40%
West	1300	688	729	1417	49%
South	1200	767	1368	2135	36%

Table 6 – Weekday Parking Demand and Utilization Summary Table (On-Street Parking)

Parking Area	Peak Time	Peak Utilization	Surplus (stalls)	Supply (stalls)	Peak Demand (%)
Study Area	1130	238	197	435	55%
North	1200, 1300, 1500	20	21	41	49%
East	1200	57	55	112	51%
West	1930	112	42	154	73%
South	1130	66	62	128	52%

Table 7 – Weekday Parking Demand and Utilization Summary Table (City-Owned Parking)

Parking Area	Peak Time	Peak Utilization	Surplus (stalls)	Supply (stalls)	Peak Demand (%)
Study Area	1300	950	1034	1984	48%
North	1900	35	16	51	69%
East	1300	256	442	698	37%
West	1300	299	235	534	56%
South	1200	381	320	701	54%

Table 8 – Weekday Parking Demand and Utilization Summary Table (Private Parking)

Parking Area	Peak Time	Peak Utilization	Surplus (stalls)	Supply (stalls)	Peak Demand (%)
Study Area	1200	1134	2138	3272	35%
North	1200	151	217	368	41%
East	1130	370	499	869	43%
West	1300	289	440	729	40%
South	1030	339	967	1306	26%

4.3.1 Study Area – Weekday Results

The peak parking demand of 40% was observed at 1:00 PM, with the total demand observed at 2,296 parking spaces. This resulted in an available parking surplus of 3,395 parking spaces during this timeframe.

The peak on-street parking demand of 55% was observed at 11:30 AM, with the total demand observed at 238 parking spaces. This resulted in an available parking surplus of 197 parking spaces during this timeframe.

The peak City-owned parking lot demand of 48% was observed at 1:00 PM, with the total demand observed at 950 parking spaces. This resulted in an available parking surplus of 1,034 parking spaces during this timeframe.

The peak privately-owned parking lot demand of 35% was observed at 12:00 PM, with the total demand observed at 1,134 parking spaces. This resulted in an available parking surplus of 2,138 parking spaces during this timeframe.

Figure 4 shows the parking utilization for the overall study area during the weekday period.

4.3.2 North Zone – Weekday Results

The peak parking demand of 40% was observed in the North zone at 12:00 PM, with the total demand observed at 186 parking spaces. This resulted in an available parking surplus of 274 parking spaces during this timeframe.

The peak on-street parking demand of 49% was observed at 12:00 PM, 1:00 PM, and at 3:00 PM, with the total demand observed at 20 parking spaces. This resulted in an available parking surplus of 21 parking spaces during this timeframe.

The peak City-owned parking lot demand of 69% was observed at 7:00 PM, with the total demand observed at 35 parking spaces. This resulted in an available parking surplus of 16 parking spaces during this timeframe.

The peak privately-owned parking lot demand of 35% was observed at 12:00 PM, with the total demand observed at 151 parking spaces. This resulted in an available parking surplus of 217 parking spaces during this timeframe.

Figure 5 illustrates the parking utilization for the North zone during the weekday period.

4.3.3 East Zone – Weekday Results

The peak parking demand of 40% was observed in the East zone at 1:00 PM, with the total demand observed at 667 parking spaces. This resulted in an available parking surplus of 1,012 parking spaces during this timeframe.

The peak on-street parking demand of 51% was observed at 12:00 PM, with the total demand observed at 57 parking spaces. This resulted in an available parking surplus of 55 parking spaces during this timeframe.

The peak City-owned parking lot demand of 37% was observed at 1:00 PM, with the total demand observed at 256 parking spaces. This resulted in an available parking surplus of 442 parking spaces during this timeframe.

The peak privately-owned parking lot demand of 43% was observed at 11:30 AM, with the total demand observed at 370 parking spaces. This resulted in an available parking surplus of 499 parking spaces during this timeframe.

Figure 6 shows the parking utilization for the East zone during the weekday period.

4.3.4 West Zone – Weekday Results

The weekday peak parking demand of 49% was observed in the West zone at 1:00 PM, with the total demand observed at 688 parking spaces. This resulted in an available parking surplus of 729 parking spaces during this timeframe.

The weekday peak on-street parking demand of 73% was observed at 7:30 PM, with the total demand observed at 112 parking spaces. This resulted in an available parking surplus of 42 parking spaces during this timeframe.

The weekday peak City-owned parking lot demand of 56% was observed at 1:00 PM, with the total demand observed at 299 parking spaces. This resulted in an available parking surplus of 235 parking spaces during this timeframe.

The weekday peak privately-owned parking lot demand of 40% was observed at 1:00 PM, with the total demand observed at 289 parking spaces. This resulted in an available parking surplus of 440 parking spaces during this timeframe.

Figure 7 summarizes the parking utilization for the West zone during the weekday period.

4.3.5 South Zone – Weekday Results

The weekday peak parking demand of 36% was observed in the South zone at 12:00 PM, with the total demand observed at 767 parking spaces. This resulted in an available parking surplus of 1,368 parking spaces during this timeframe.

The weekday peak on-street parking demand of 52% was observed at 11:30 AM, with the total demand observed at 66 parking spaces. This resulted in an available parking surplus of 62 parking spaces during this timeframe.

The weekday peak City-owned parking lot demand of 54% was observed at 12:00 PM, with the total demand observed at 381 parking spaces. This resulted in an available parking surplus of 320 parking spaces during this timeframe.

The weekday peak privately-owned parking lot demand of 26% was observed at 10:30 AM, with the total demand observed at 339 parking spaces. This resulted in an available parking surplus of 967 parking spaces during this timeframe.

Figure 8 displays the parking utilization for the South zone during the weekday period.

4.4 Weekend Parking Demand and Utilization

For readability purposes, Table 9, Table 10, Table 11, and Table 12 summarize the parking demands for each parking type (on-street parking, City-owned parking, and private parking) categorized by study zone.

Table 9 – Weekend Parking Demand and Utilization Summary Table (Total)

Parking Area	Peak Time	Peak Utilization	Surplus (stalls)	Supply (stalls)	Peak Demand (%)
Study Area	1300	1420	4271	5691	25%
North	1900	120	294	460	26%
East	1300	291	1388	1679	17%
West	1930	532	885	1417	38%
South	1300	556	1549	2135	26%

Table 10 – Weekend Parking Demand and Utilization Summary Table (On-Street Parking)

Parking Area	Peak Time	Peak Utilization	Surplus (stalls)	Supply (stalls)	Peak Demand (%)
Study Area	1930	206	229	435	47%
North	1500	22	19	41	54%
East	1230, 1300	36	76	112	32%
West	1930	132	22	154	86%
South	1300	47	81	128	37%

Table 11 – Weekend Parking Demand and Utilization Summary Table (City-Owned Parking)

Parking Area	Peak Time	Peak Utilization	Surplus (stalls)	Supply (stalls)	Peak Demand (%)
Study Area	1300	709	1275	1984	36%
North	1900	46	5	51	90%
East	1300	101	597	698	14%
West	1400	254	280	534	48%
South	1300	359	342	701	51%

Table 12 – Weekend Parking Demand and Utilization Summary Table (Private Parking)

Parking Area	Peak Time	Peak Utilization	Surplus (stalls)	Supply (stalls)	Peak Demand (%)
Study Area	1430	547	2725	3272	19%
North	1330	87	281	368	24%
East	1100	165	704	869	19%
West	1930	184	545	729	25%
South	1530	195	1111	1306	22%

4.4.1 Study Area – Weekend Results

The peak weekend total study area parking demand of 25% was observed at 1:00 PM, with the total demand observed at 1,420 parking spaces. This resulted in an available parking surplus of 4,271 parking spaces during this timeframe.

The peak weekend total on-street parking demand of 47% was observed at 7:30PM, with the total demand observed at 206 parking spaces. This resulted in an available parking surplus of 229 parking spaces during this timeframe.

The peak weekend total City-owned parking lot demand of 36% was observed at 1:00 PM, with the total demand observed at 709 parking spaces. This resulted in an available parking surplus of 1,275 parking spaces during this timeframe.

The peak weekend total privately-owned parking lot demand of 19% was observed at 2:30 PM, with the total demand observed at 547 parking spaces. This resulted in an available parking surplus of 2,725 parking spaces during this timeframe.

Figure 9 shows the parking utilization for the study area during the weekend period.

4.4.2 North Zone – Weekend Results

The peak weekend north total parking demand of 26% was observed in the North zone at 3:00 PM, with the total demand observed at 120 parking spaces. This resulted in an available parking surplus of 294 parking spaces during this timeframe.

The peak weekend north on-street parking demand of 54% was observed at 3:00 PM with the total demand observed at 22 parking spaces. This resulted in an available parking surplus of 19 parking spaces during this timeframe.

The peak weekend north City-owned parking lot demand of 90% was observed at 7:00 PM, with the total demand observed at 46 parking spaces. This resulted in an available parking surplus of 5 parking spaces during this timeframe.

The peak weekend north privately-owned parking lot demand of 24% was observed at 13:30 PM, with the total demand observed at 87 parking spaces. This resulted in an available parking surplus of 281 parking spaces during this timeframe.

Figure 10 summarizes the parking utilization for the North zone during the weekend period.

4.4.3 East Zone – Weekend Results

The peak weekend east total parking demand of 17% was observed in the East zone at 1:00 PM, with the total demand observed at 291 parking spaces. This resulted in an available parking surplus of 1,388 parking spaces during this timeframe.

The peak weekend east on-street parking demand of 32% was observed at 12:30 PM and 1:30 PM, with the total demand observed at 36 parking spaces. This resulted in an available parking surplus of 76 parking spaces during this timeframe.

The peak weekend east City-owned parking lot demand of 14% was observed at 1:00 PM, with the total demand observed at 101 parking spaces. This resulted in an available parking surplus of 597 parking spaces during this timeframe.

The peak weekend east privately-owned parking lot demand of 19% was observed at 11:00 AM, with the total demand observed at 165 parking spaces. This resulted in an available parking surplus of 704 parking spaces during this timeframe.

Figure 11 illustrates the parking utilization for the East zone during the weekend period.

4.4.4 West Zone – Weekend Results

The peak weekend west total parking demand of 38% was observed in the West zone at 7:30 PM, with the total demand observed at 532 parking spaces. This resulted in an available parking surplus of 885 parking spaces during this timeframe.

The peak weekend west on-street parking demand of 86% was observed at 7:30 PM, with the total demand observed at 132 parking spaces. This resulted in an available parking surplus of 22 parking spaces during this timeframe.

The peak weekend west City-owned parking lot demand of 48% was observed at 2:00 PM, with the total demand observed at 254 parking spaces. This resulted in an available parking surplus of 280 parking spaces during this timeframe.

The peak weekend west privately-owned parking lot demand of 25% was observed at 7:30 PM, with the total demand observed at 184 parking spaces. This resulted in an available parking surplus of 545 parking spaces during this timeframe.

Figure 12 shows the parking utilization for the West zone during the weekend period.

4.4.5 South Zone – Weekend Results

The peak weekend south total parking demand of 26% was observed in the South zone at 1:00 PM, with the total demand observed at 556 parking spaces. This resulted in an available parking surplus of 1,549 parking spaces during this timeframe.

The peak weekend south on-street parking demand of 37% was observed at 1:00 PM, with the total demand observed at 47 parking spaces. This resulted in an available parking surplus of 81 parking spaces during this timeframe.

The peak weekend south City-owned parking lot demand of 51% was observed at 1:00 PM, with the total demand observed at 359 parking spaces. This resulted in an available parking surplus of 342 parking spaces during this timeframe.

The peak weekend south privately-owned parking lot demand of 22% was observed at 3:30 PM, with the total demand observed at 195 parking spaces. This resulted in an available parking surplus of 1,111 parking spaces during this timeframe.

Figure 13 shows the parking utilization for the South zone during the weekend period.

5. COMPARISON OF SURVEY RESULTS

5.1 Parking Utilization Survey Comparison (from 2019 to 2021 to 2022)

During the 2019 parking utilization study, a total of 4,994 parking spaces were surveyed within the Urban Growth Centre Boundary, compared to the 4,986 parking spaces surveyed in 2021, and 5691 in 2022. Of the 4,994 parking spaces surveyed in 2019, 2,573 parking spaces were located within private lots, 2,042 parking spaces were within city-owned lots, and 379 parking spaces were designated as on-street parking spaces. Of the 5691 parking spaces surveyed in 2022, 3,272 parking spaces were located within private lots, 1,984 parking spaces were within city-owned lots, and 435 parking spaces were designated as on-street parking spaces.

5.1.1 Weekday Parking Utilization Results

In the 2019 parking utilization study, the peak parking demand on the weekday surveyed was observed to be 61%. These percentages decreased to 37% in the 2021 parking utilization study and 40% in the 2022 parking utilization study.

In the 2019 parking utilization study, the peak on-street parking demand on the weekday surveyed was observed to be 63%. These percentages decreased to 54% in the 2021 parking utilization study and 55% in the 2022 parking utilization study.

In the 2019 parking utilization study, the peak City-owned parking lot demand on the weekday surveyed was observed to be 68%. These percentages decreased to 32% in the 2021 parking utilization study and 48% in the 2022 parking utilization study.

In the 2019 parking utilization study, the peak privately-owned parking lot demand on the weekday surveyed was observed to be 56%. These percentages decreased to 38% in the 2021 parking utilization study and 35% in the 2022 parking utilization study.

5.1.2 Saturday Parking Utilization Results

In the 2019 parking utilization study, the peak parking demand on the Saturday surveyed was observed to be 36%. These percentages decreased to 26% in the 2021 parking utilization study and 25% in the 2022 parking utilization study.

In the 2019 parking utilization study, the peak on-street parking demand on the Saturday surveyed was observed to be 53%. These percentages decreased to 45% in the 2021 parking utilization study and 47% in the 2022 parking utilization study.

In the 2019 parking utilization study, the peak City-owned parking lot demand on the Saturday surveyed was observed to be 45%. These percentages decreased to 28% in the 2021 parking utilization study and 36% in the 2022 parking utilization study.

In the 2019 parking utilization study, the peak privately-owned parking lot demand on the weekday surveyed was observed to be 31%. These percentages decreased to 22% in the 2021 parking utilization study and 19% in the 2022 parking utilization study.

5.2 Parking Utilization Survey Comparison (2016, 2019, 2021, 2022)

Table 13 shows the peak weekday and weekend parking utilization percentages for each lot / parking area type across the survey years.

Table 13 – Peak Parking Utilization Percentages

	Weekday	Weekday	Weekday	Weekday	Weekend	Weekend	Weekend	Weekend
Year:	2016	2019	2021	2022	2016	2019	2021	2022
Study Area	53	61	37	40	30	36	26	25
Public Lots	59	68	32	48	39	45	28	36
Private Lots	48	56	38	35	22	31	22	19
On Street	63	63	54	55	57	53	45	47

The peak weekday total parking utilization decreased from 53% in 2016 to 37% in 2021 and 40% in 2022. Compared to 2016, weekday parking utilization decreased in all parking types in 2022, but from 2016 to 2019, there was an increase in all parking utilization for all types except for weekday on-street parking, which remained the same between 2016 and 2019.

Compared to 2016, weekday parking utilization in 2022 in public (city-owned) lots decreased from 59% to 48%; in private lots it decreased from 48% to 35%; and on-street parking peak utilization decreased from 63% to 55% from 2016 to 2022.

The peak weekend total parking utilization decreased from 30% in 2016 to 26% in 2021 and to 25% in 2022.

Compared to 2016, weekend parking utilization decreased in all parking types in 2022, but from 2016 to 2019, there was an increase in all parking utilization for all types except for weekday on-street parking, which decreased from 57% to 53% between 2016 and 2019.

Compared to 2016, weekend parking utilization in 2022 in public (city-owned) lots decreased from 39% to 36%; in private lots it decreased from 22% to 19%; and on-street parking peak utilization decreased from 57% to 47% from 2016 to 2022.

6. CONCLUSIONS

This Uptown Waterloo Parking Utilization Study Update is summarized as follows:

- A total of 5,691 parking spaces are currently provided within the Uptown Waterloo study area, of which 3,272 parking spaces are located in private lots, 1,984 parking spaces are found in City-owned lots, and 435 parking spaces are provided on-street.
- Free parking is offered in the Uptown Waterloo study area, though it is generally restricted to two hours or less depending on the location.
- Parking utilization surveys were conducted for one weekday and one Saturday in October 2022 between the hours of 8:00 AM and 8:00 PM. The survey was divided into 30-minute intervals for ease of data collection, resulting in 24 entries being recorded for each parking area / facility.
- A summary of the weekday and weekend survey results for the study area and categorized by parking facility type is provided in Table 14 and Table 15 below:

Table 14 – Summary of Weekday Results

Parking Area	Peak Utilization (stalls)	Supply (stalls)	Peak Demand (%)	Average Demand (%)
Study Area	2,296	5691	40%	31%
On-Street	238	435	55%	44%
City	950	1984	48%	34%
Private	1134	3272	35%	27%

Table 15 – Summary of Weekend Results

Parking Area	Peak Utilization (stalls)	Supply (stalls)	Peak Demand (%)	Average Demand (%)
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Study Area	1,420	5692	25%	20%
On-Street	206	435	47%	36%
City	709	1984	36%	26%
Private	547	3272	19%	14%

- The weekday survey results are summarized below:
 - During the weekday survey, the peak parking demand for the total study area was observed to be 40% (2,296 occupied stalls) of the total supply (5,691 stalls). The average weekday parking demand in the study area was 31% of the total supply.
 - During the weekday survey, the peak on-street parking demand for the study area was observed to be 55% (238 occupied stalls) of the total supply (435 stalls). The average parking demand on-street was 44% of the total on-street supply.
 - During the weekday survey, the peak City-owned parking lot demand for the study area was observed to be 48% (950 occupied stalls) of the total City-owned supply (1,984 stalls). The average parking demand was 34% of the total supply.
 - During the weekday survey, the peak privately-owned parking lot demand for the study area was observed to be 35% (1,134 occupied stalls) of the total supply (3,272 stalls). The average parking demand was 27% of the total supply.

- The weekend survey results are summarized below:
 - During the weekend survey, the peak parking demand for the total study area was observed to be 25% (1,420 occupied stalls) of the total supply (5,691 stalls). The average weekday parking demand in the study area was 25% of the total supply.
 - During the weekend survey, the peak on-street parking demand for the study area was observed to be 47% (206 occupied stalls) of the total supply (435 stalls). The average parking demand on-street was 36% of the total on-street supply.
 - During the weekend survey, the peak City-owned parking lot demand for the study area was observed to be 36% (709 occupied stalls) of the total City-owned supply (1,984 stalls). The average parking demand was 26% of the total supply.
 - During the weekend survey, the peak privately-owned parking lot demand for the study area was observed to be 19% (547 occupied stalls) of the total supply (3,272 stalls). The average parking demand was 14% of the total supply.

- The peak parking utilization surveyed in 2022 compared to the 2019 survey are summarized in Table 16 below:

Table 16 – Comparison of 2019 and 2022 Survey Results

Parking Area	% Change (Weekday Survey) (2019 vs 2022)	% Change (Weekend Survey) (2019 vs 2022)
Study Area	Decrease of 21% from 2019 (61% vs 40%)	Decrease of 11% from 2019 (36% vs 25%)

On-Street	Decrease of 8% from 2019 (63% vs 55%)	Decrease of 6% from 2019 (53% vs 47%)
City	Decrease of 20% from 2019 (68% vs 48%)	Decrease of 9% from 2019 (45% vs 36%)
Private	Decrease of 21% from 2019 (56% vs 35%)	Decrease of 12% from 2019 (31% vs 19%)

- The peak parking utilization during the weekday period decreased by 21% from 61% in 2019 to 40% in 2022. The City-owned parking lot demand decreased by 20%, the privately-owned lot demand decreased by 21%, and the on-street parking demand decreased by 8% from 2019 to 2022.
- The peak parking utilization during the weekend period decreased by 11% from 36% in 2019 to 25% in 2022. The City-owned parking lot demand decreased by 9%, the privately-owned lot demand decreased by 12%, and the on-street parking demand decreased by 6%.
- Compared to 2016 values, the peak 2022 parking utilization percentages decreased during the weekday for all parking types.
- Compared to 2016 values, the peak 2022 parking utilization percentages decreased much less significantly during the weekend survey in all parking types.
- Compared to 2019 values, peak parking utilization percentages decreased in all categories in 2022. Decreases were greater on the weekday for all types. Decreases were less in the on-street category compared to both lot types on both days.
- Quantifying the changes in parking utilization in 2022 due to ION ridership is difficult, as many businesses have continued to let staff work from home for some or all of the work week, and some people may have still been taking pandemic control precautions during the 2022 survey.
- The range of 25% to 40% peak study area parking utilization in 2022 suggest that the overall parking supply within the study area continues to be largely underutilized and may benefit from further development and/or intensification.
- Further studies are recommended upon the resumption of normal operations to fully capture the impacts of ION ridership on parking demand in Uptown Waterloo.

Respectfully submitted,



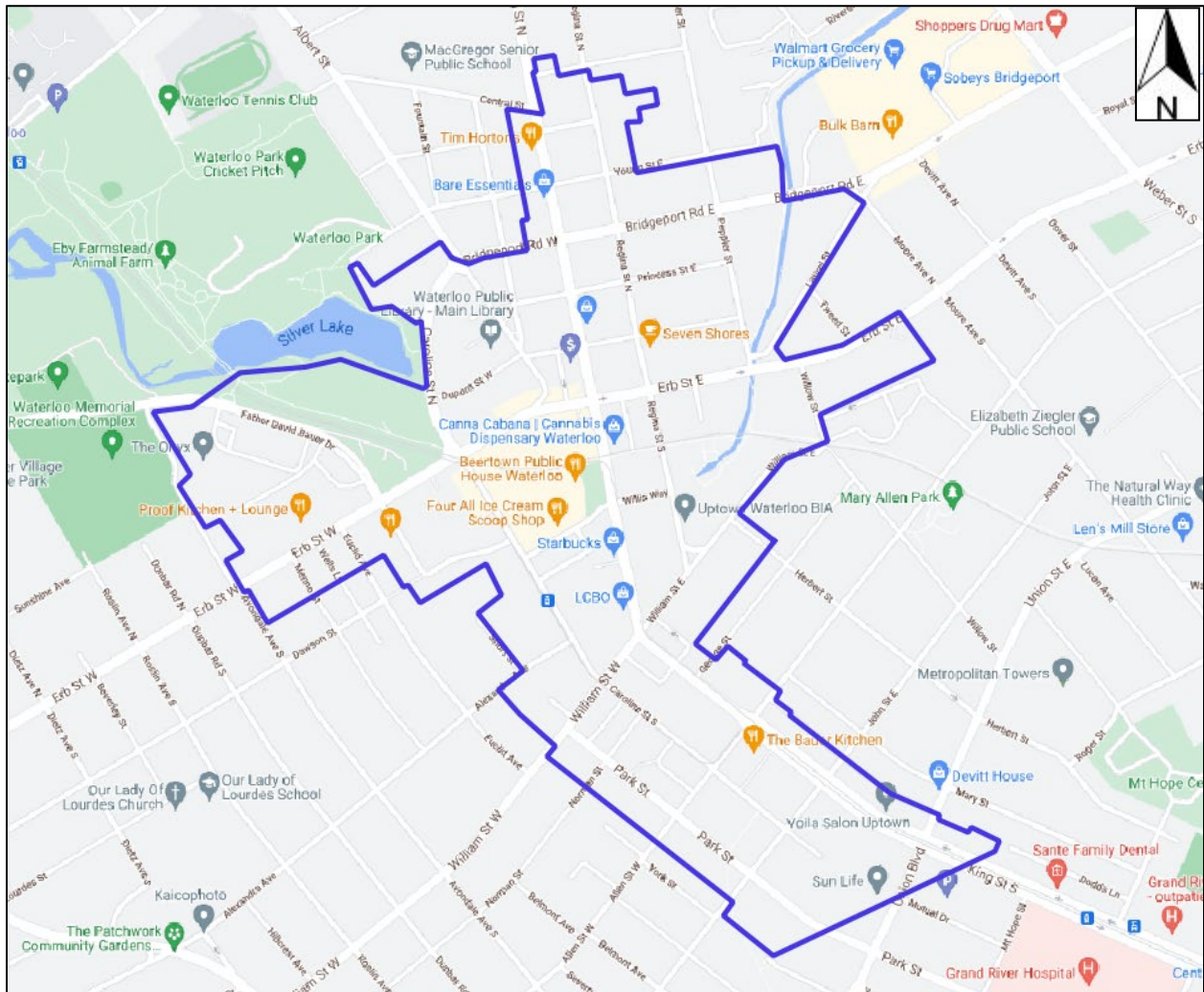
Anil Seegobin, P.Eng.
Partner, Engineer



John Fischer
Traffic Survey Supervisor

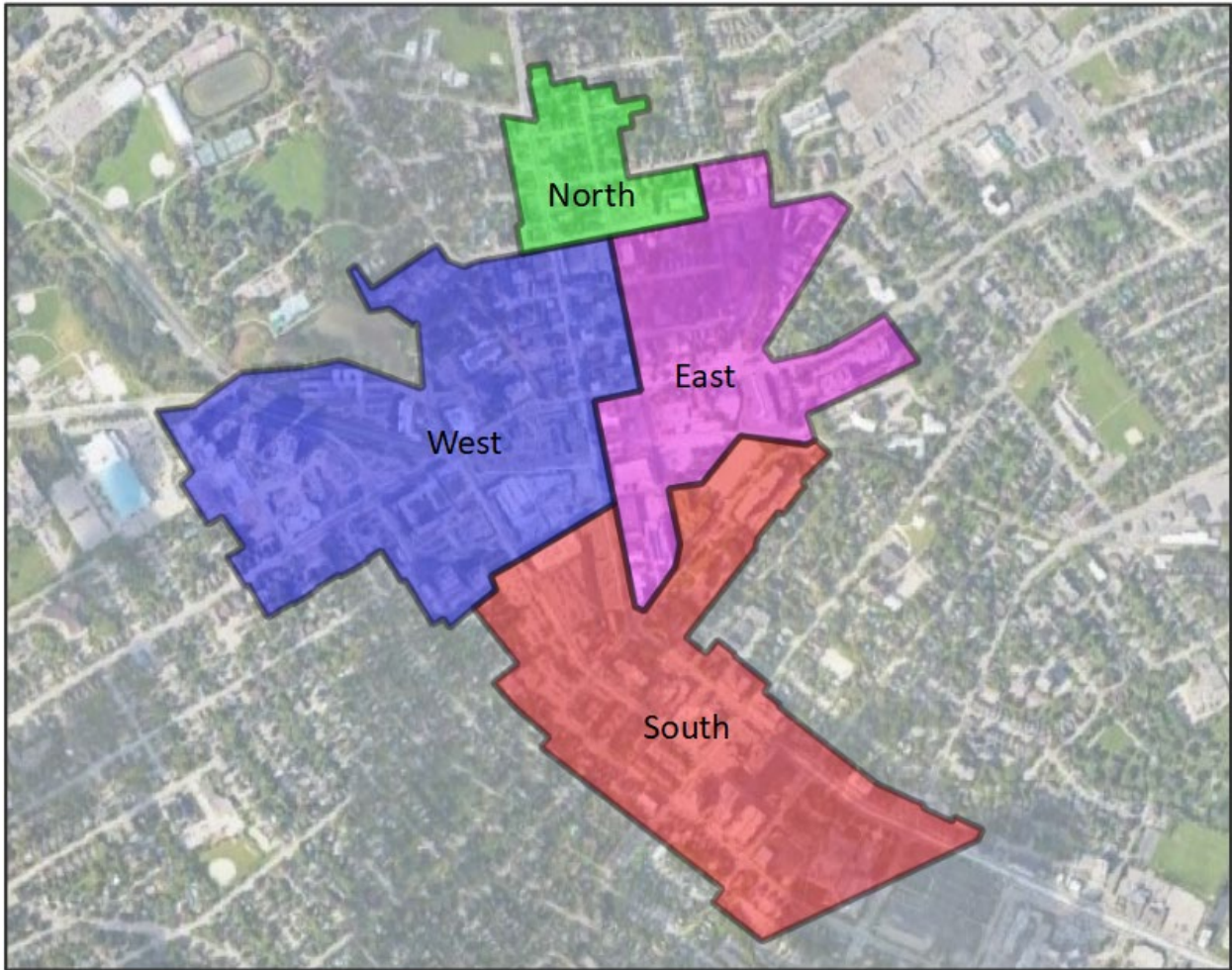
Trans-Plan Transportation Inc.
Transportation Consultants

Figure 1 – Study Area Map



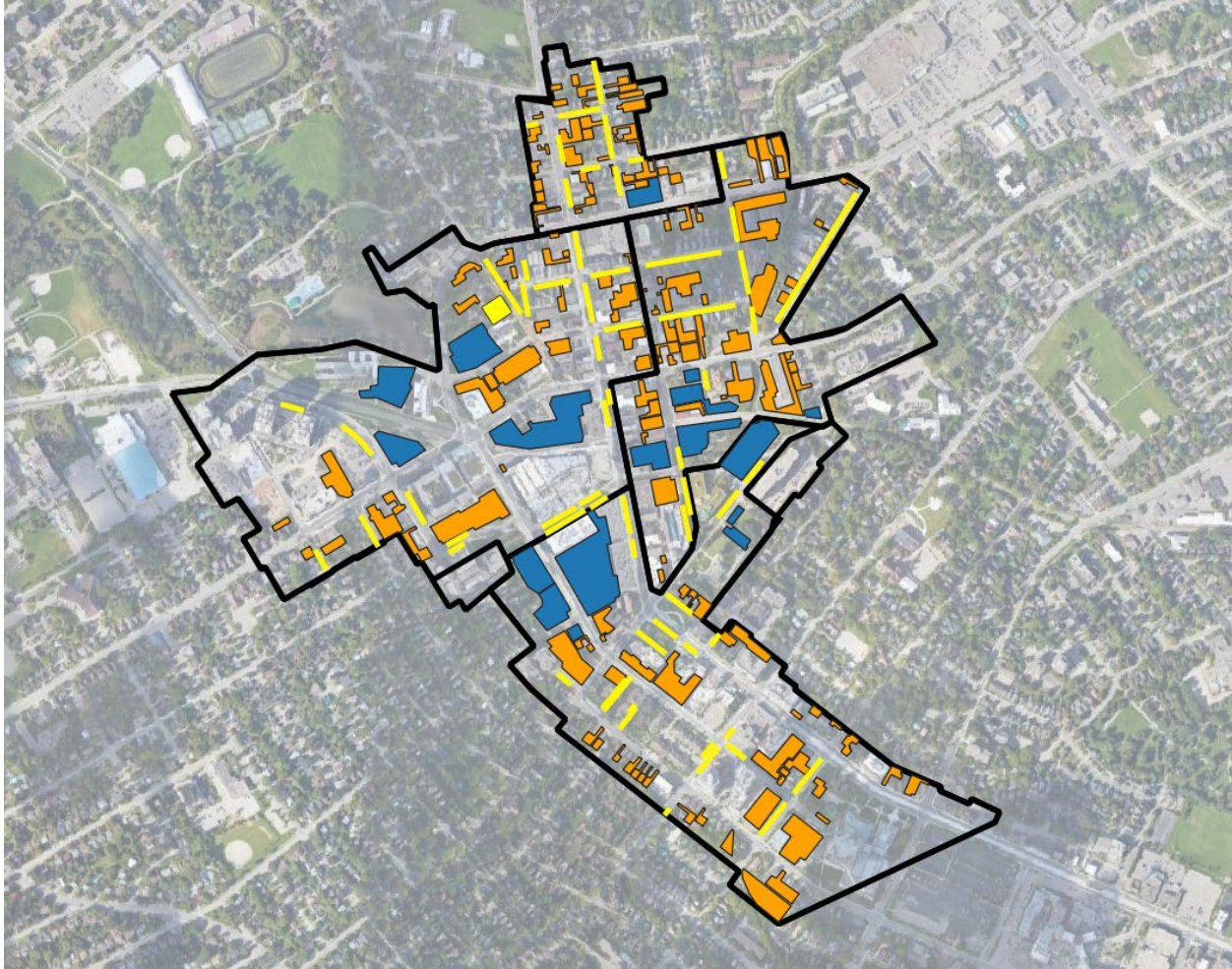
Source: Google Maps

Figure 2 – Study Area Report Zones



Source: Google Maps

Figure 3 – Location of Existing Parking Amenities



Source: Google Maps

Figure 4 – Weekday Study Area Parking Utilization

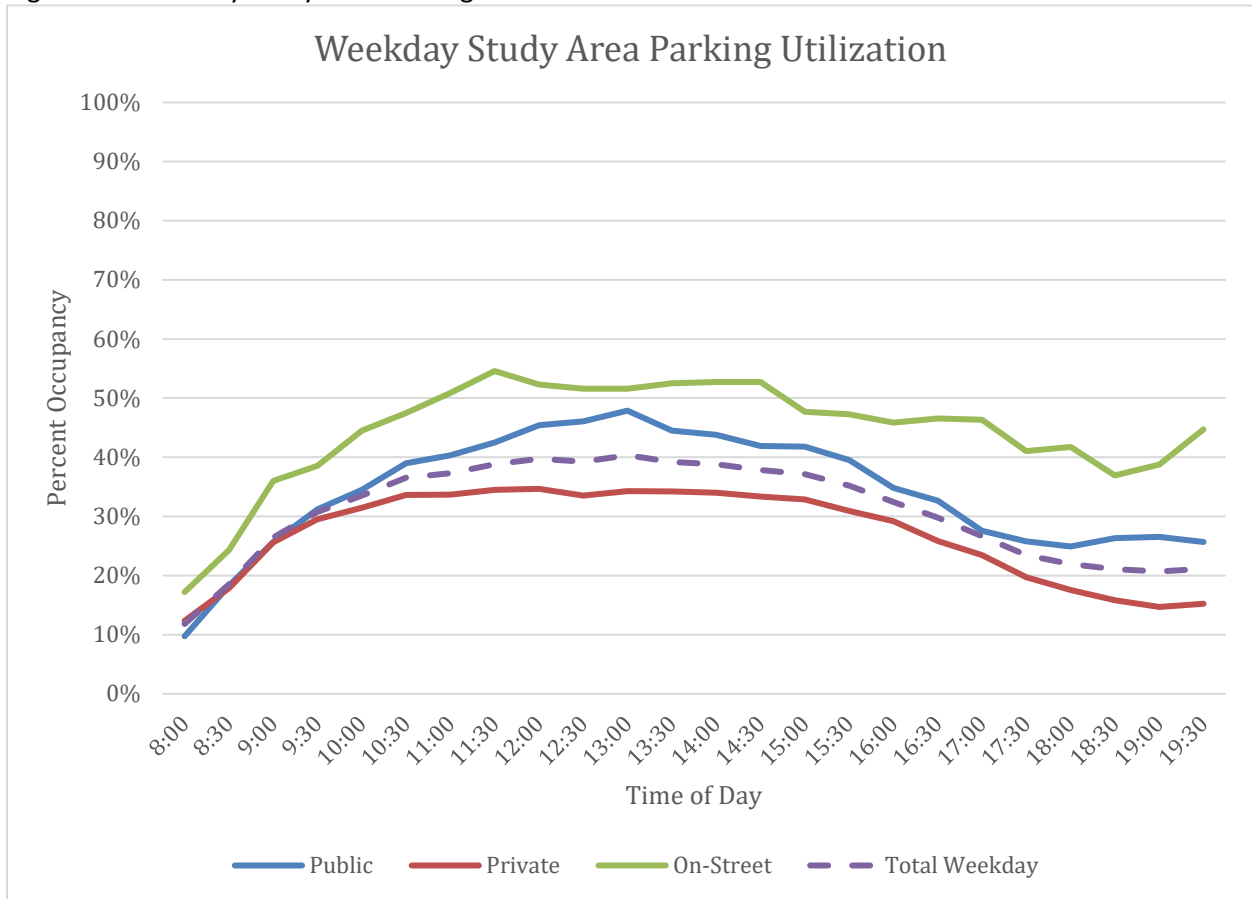


Figure 5 – Weekday North Zone Parking Utilization

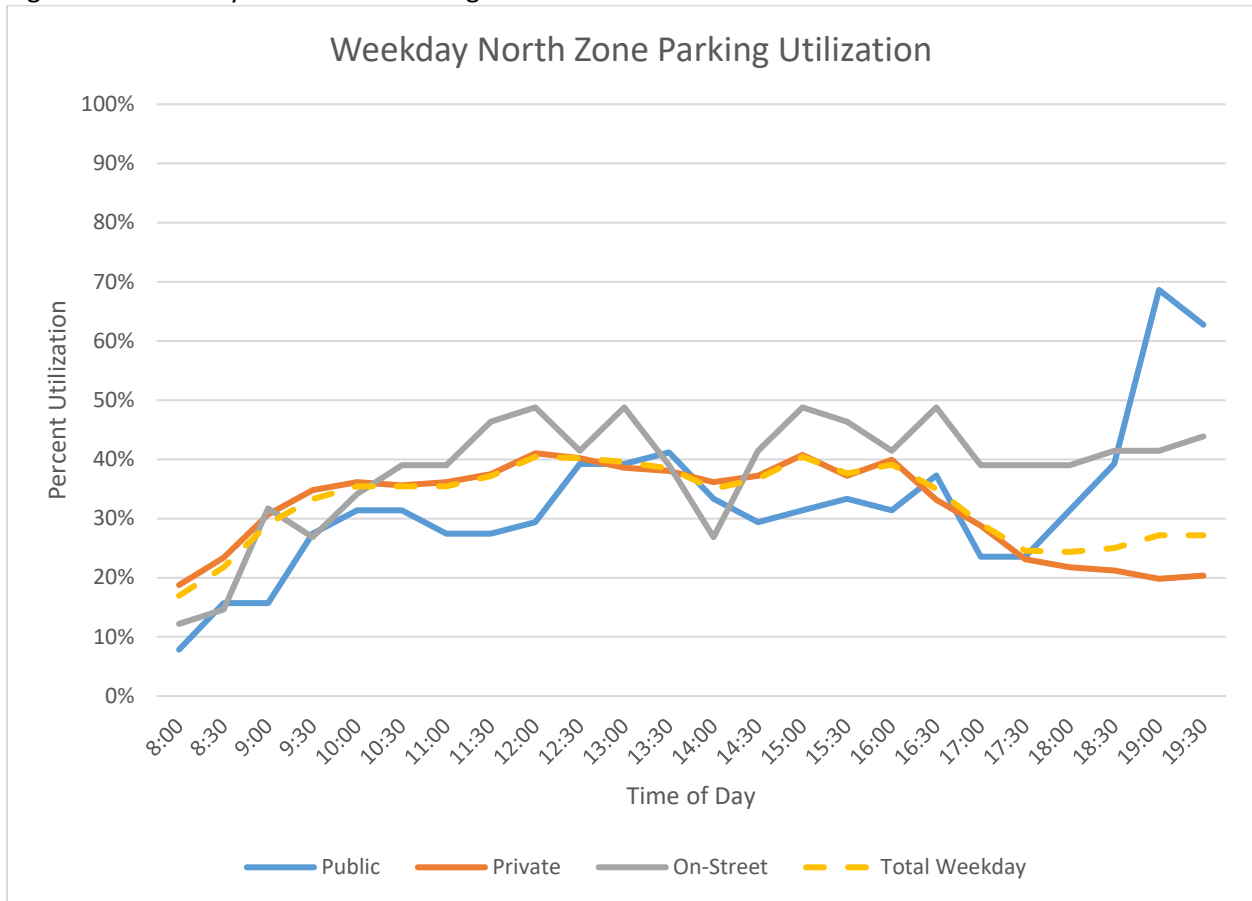


Figure 6 – Weekday East Zone Parking Utilization

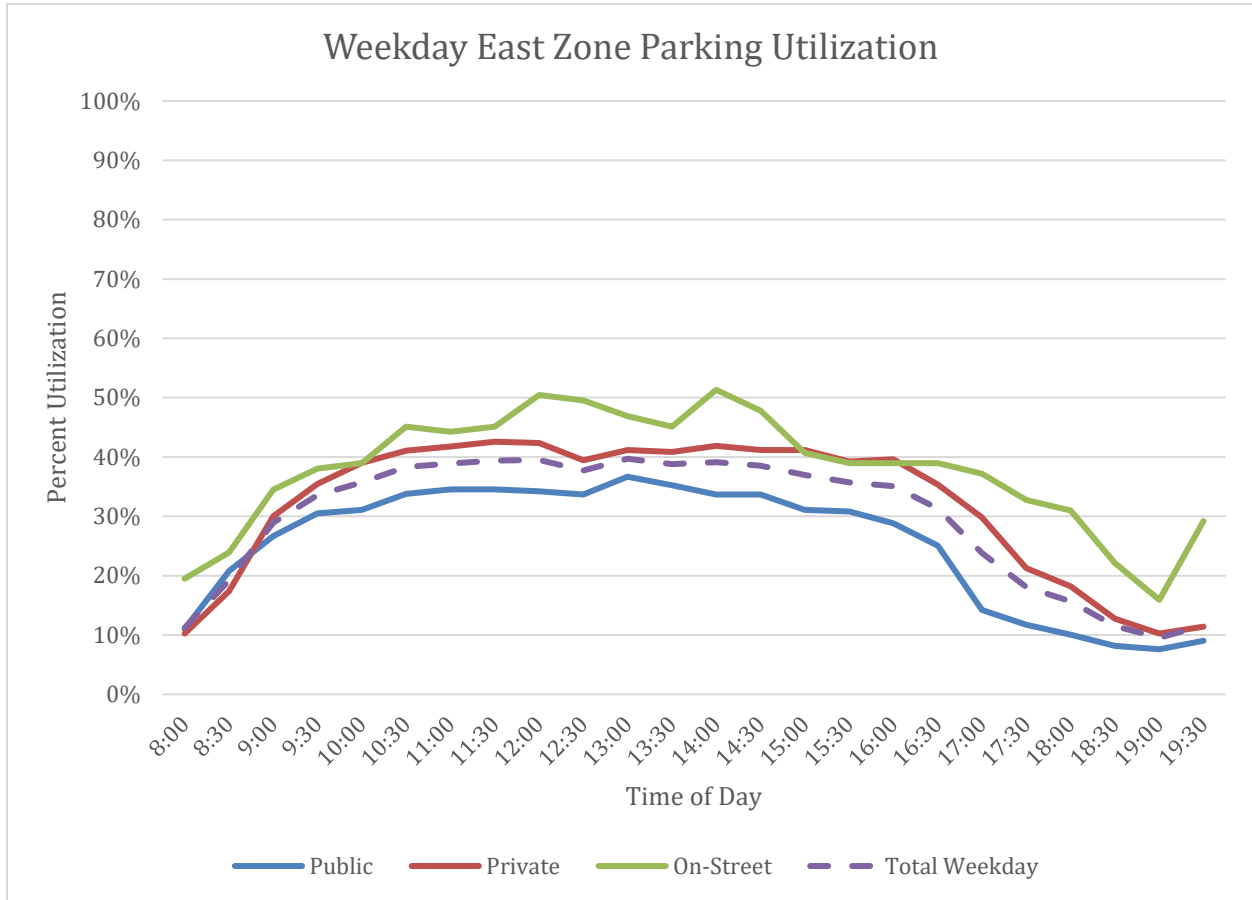


Figure 7 – Weekday West Zone Parking Utilization

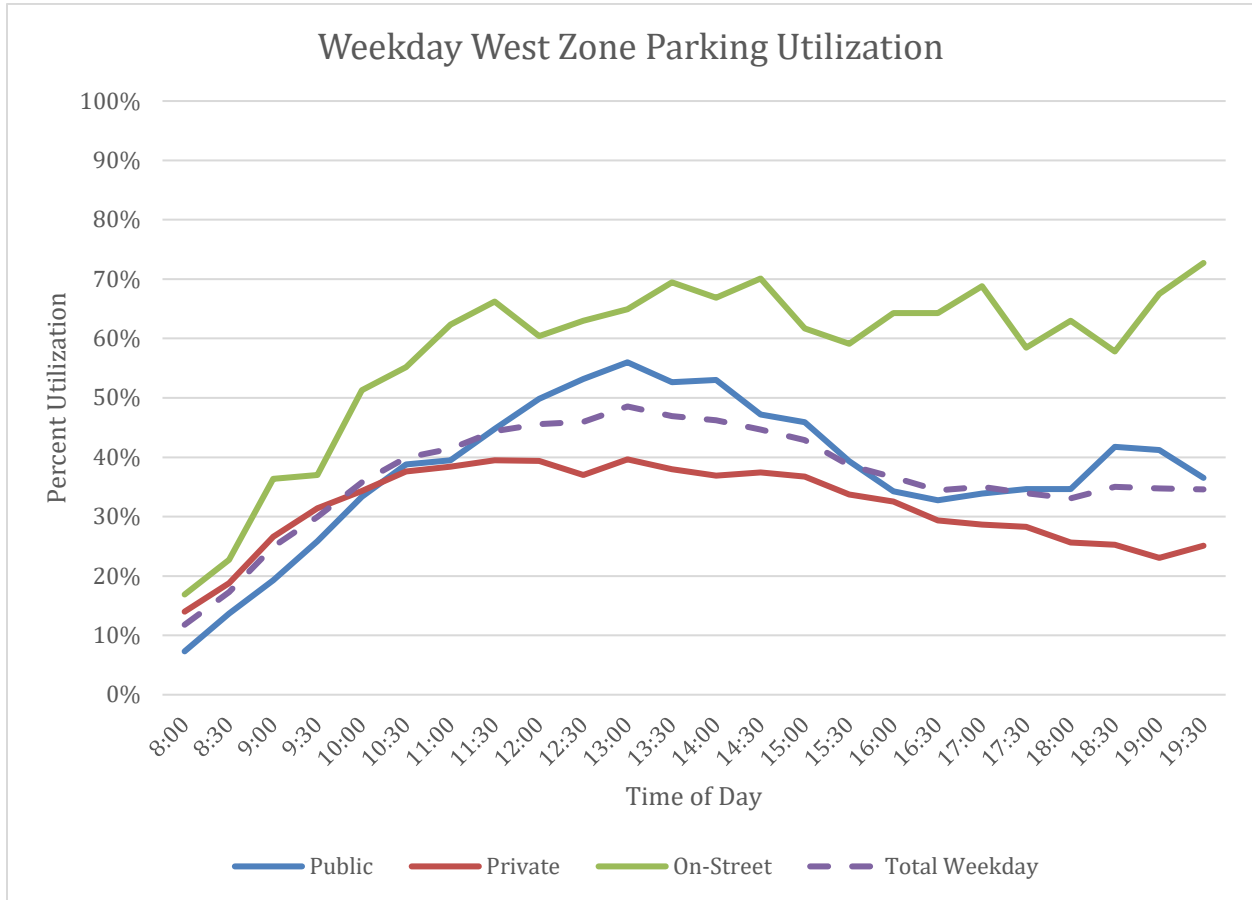


Figure 8 – Weekday South Zone Parking Utilization

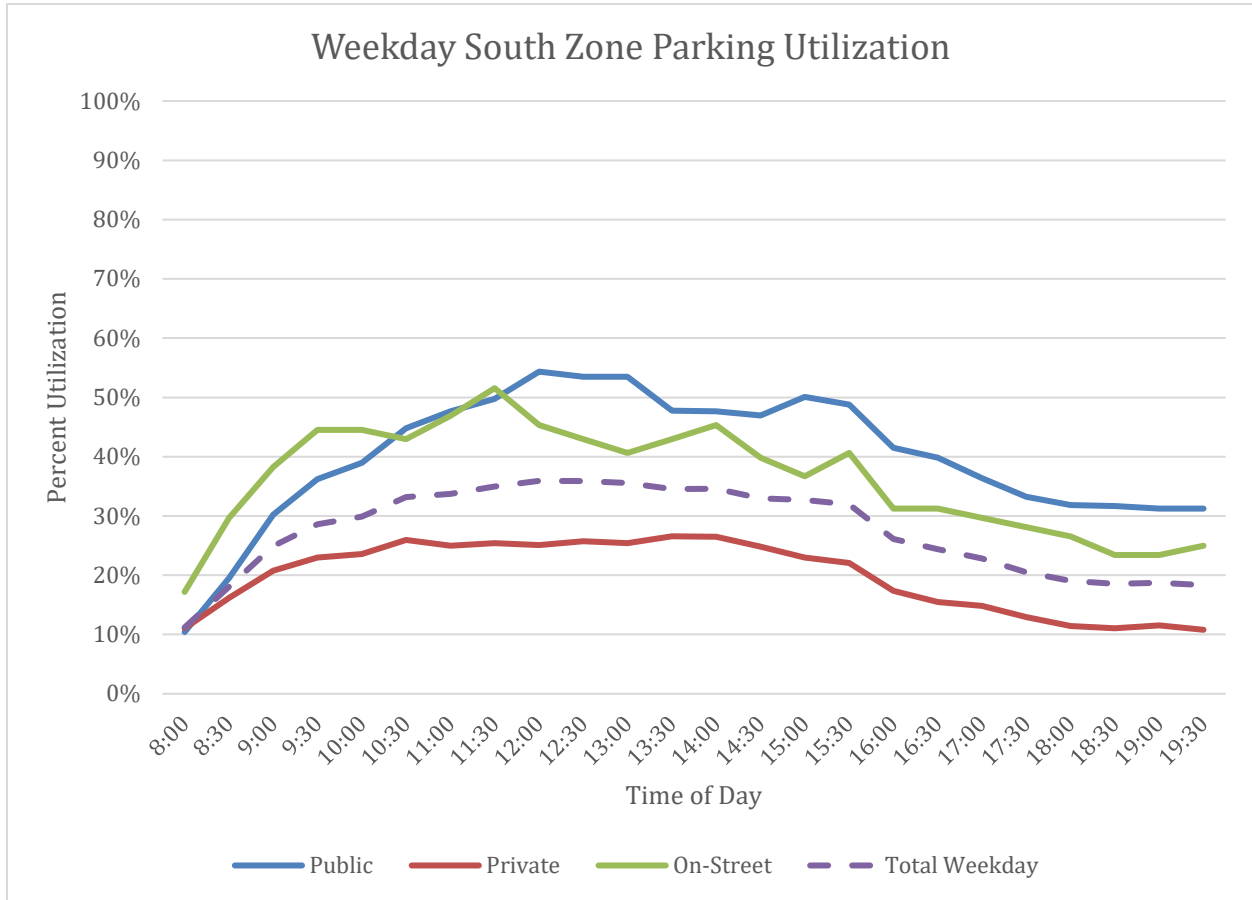


Figure 9 – Saturday Study Area Parking Utilization

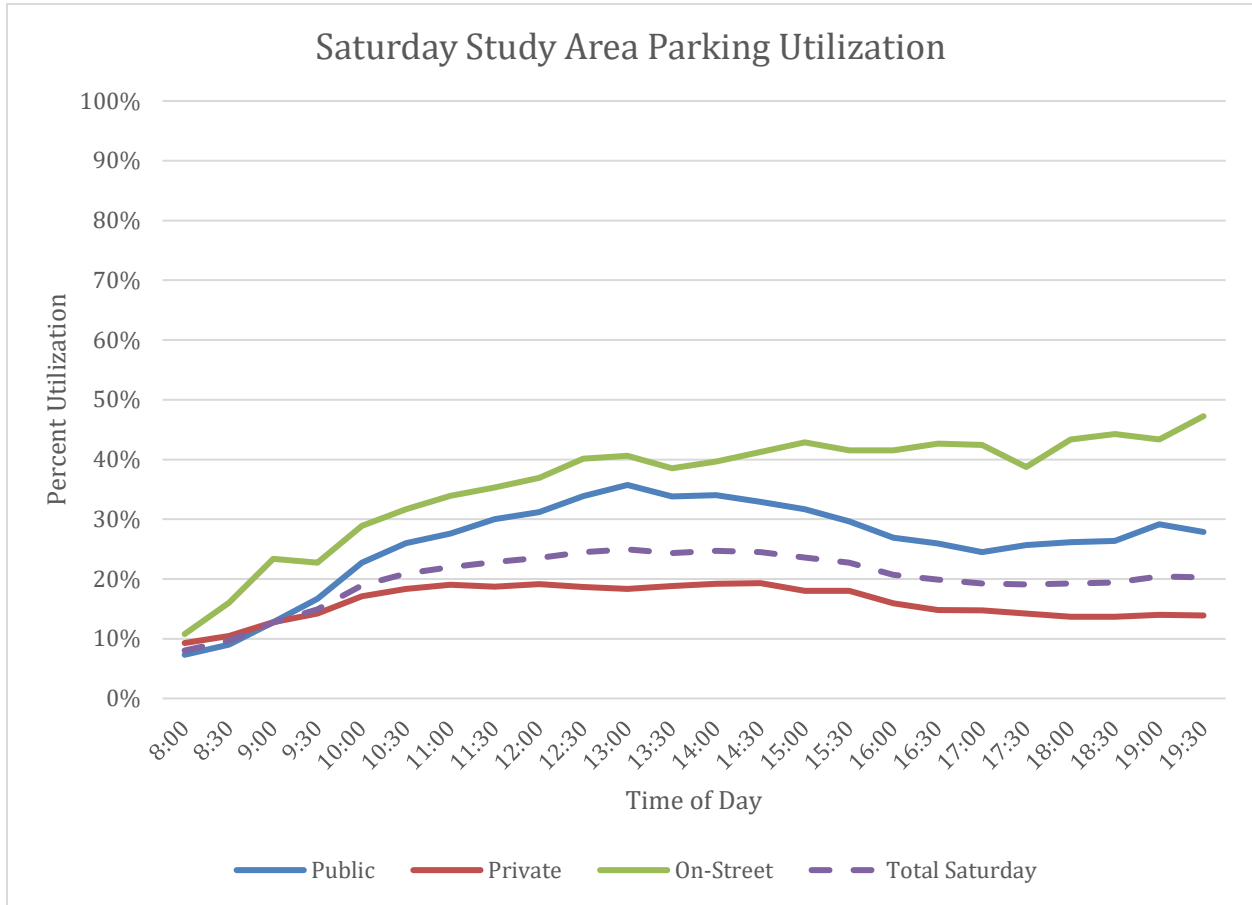


Figure 10 – Saturday North Zone Parking Utilization

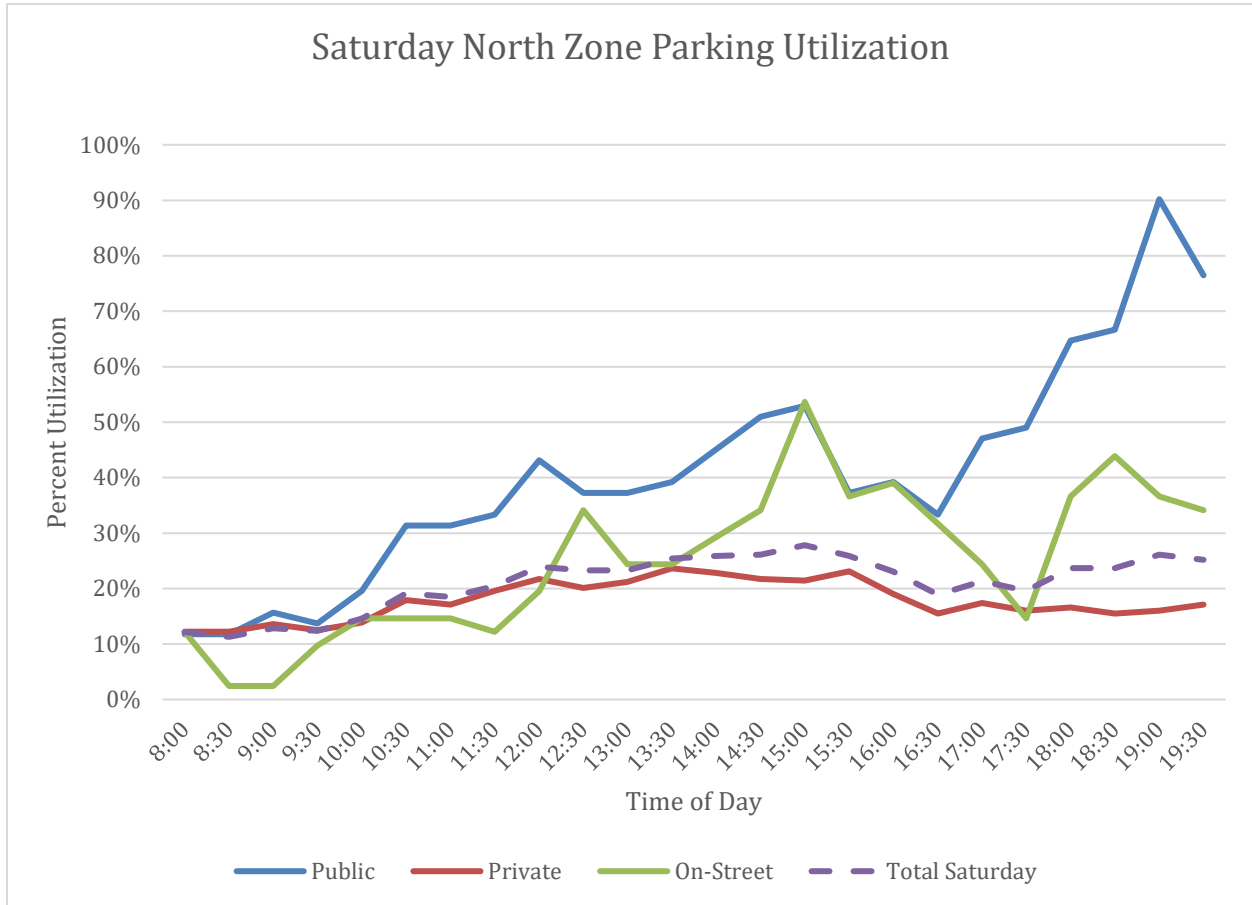


Figure 11 – Saturday East Zone Parking Utilization

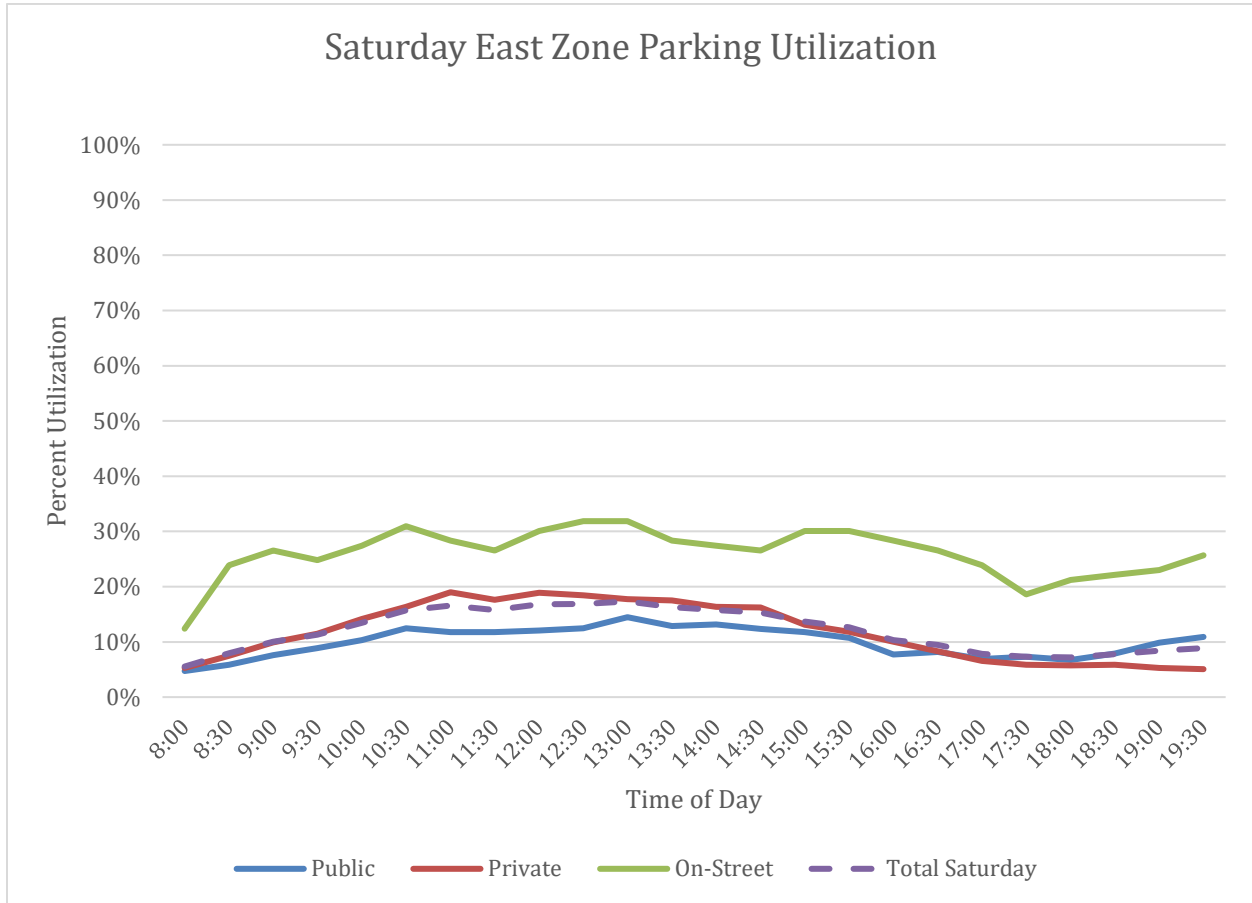


Figure 12 – Saturday West Zone Parking Utilization

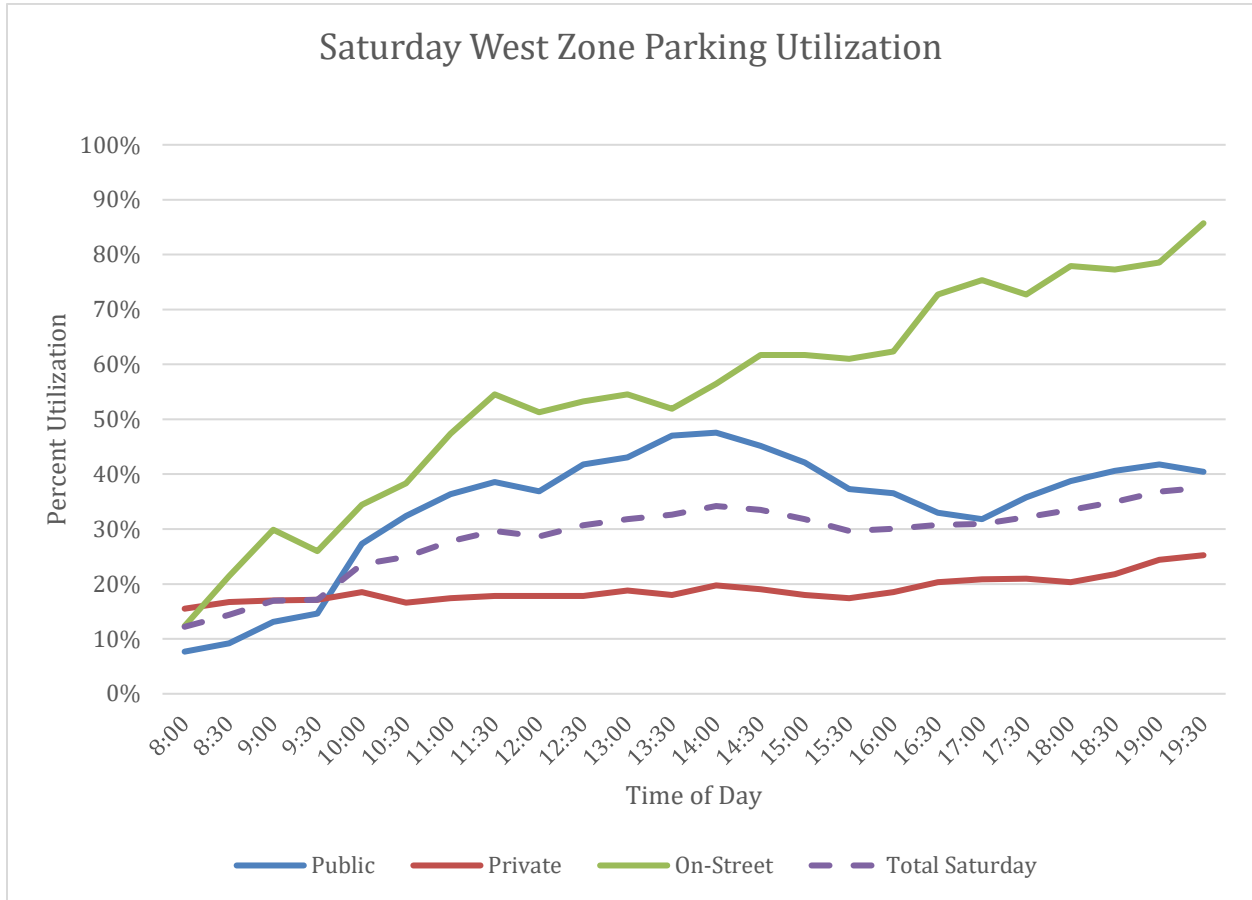
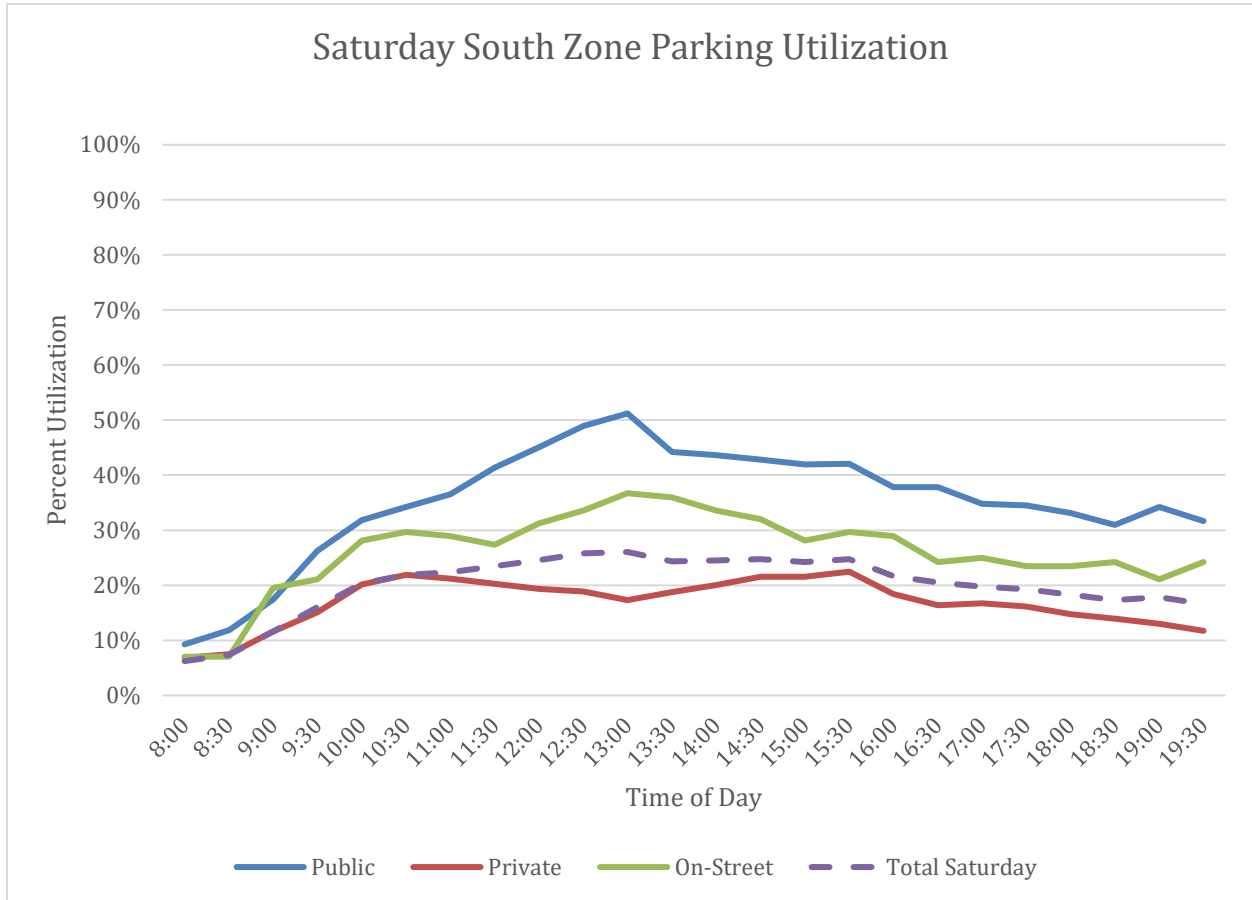


Figure 13 – Saturday South Zone Parking Utilization



APPENDICES

Appendix A – Parking Utilization Survey Data

Parking Area						Number of Parked Vehicles Weekday																								
Study Area Zone	Location of Parking (Category)	Actual Number of Stalls	Maximum Number of Stalls	Parking ID	Parking Lot Name/Description	8:00 AM	8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5:00 PM	5:30 PM	6:00 PM	6:30 PM	7:00 PM	7:30 PM	
East	On-Street	3	3	E04	Gillen St, E side, S of Erb St. E	1	1	1	1	1	2	2	2	2	3	3	3	3	3	3	3	3	2	2	2	2	2	1	1	
East	On-Street	28	28	E09	Laurel St., W side, btwn Erb St. E & Moore Av.	7	8	9	9	11	12	11	11	12	11	10	10	12	12	10	7	7	6	4	3	2	2	0	0	
East	On-Street	8	8	E16	Peppler St., E side, btwn Bridgeport Rd. and Brighton Yards Drwy.	0	0	3	2	1	3	0	1	5	4	3	0	3	3	1	3	2	2	3	3	4	3	2	1	
East	On-Street	14	14	M13	Dupont St. E, S side, btwn Peppler St. & Regina St.	1	2	5	8	10	7	7	9	10	12	10	12	9	10	7	6	7	9	8	7	6	3	4	11	
East	On-Street	15	15	M18	Peppler St., E side, btwn Dupont St. & Princess St.	0	0	1	2	2	4	5	6	6	6	5	5	6	6	4	3	3	3	4	1	3	0	0	-	
East	On-Street	6	6	M19	Peppler St., E side, btwn Erb St. & Dupont St.	4	4	5	5	5	5	5	4	5	4	4	4	3	3	3	3	2	2	2	2	2	1	0	0	
East	On-Street	6	6	M33	Peppler St. E, E side, btwn Princess St. & Bridgeport Rd.	1	1	1	2	2	2	2	2	2	1	1	1	1	1	1	2	3	3	3	3	3	2	1	0	0
East	On-Street	14	14	M34	Princess St. E, S side, btwn Peppler St. & Regina St.	0	0	1	1	1	1	2	3	3	3	3	2	5	3	3	4	4	5	6	4	8	9	11	12	
East	On-Street	8	8	P03	Regina St. S, W side, btwn William St. E & Willis Way	2	4	5	5	4	6	7	4	6	6	6	6	7	7	7	7	5	5	5	4	1	1	0	1	
East	On-Street	6	6	P13	Regina St. S, E side, btwn Willis Way & William St.	5	5	5	5	4	6	6	6	3	5	6	6	6	4	4	4	5	5	4	4	3	2	0	1	
East	On-Street	4	4	P14	Regina St. S, E side, N of Willis Way	1	2	3	3	3	3	3	3	3	1	2	2	3	2	2	1	3	2	1	4	2	1	0	6	
East	Private	17	17	E01	Paul Puncher Men's Clothier, 20 Regina St. S	0	1	3	1	3	1	3	3	4	4	4	4	3	3	6	2	4	2	3	4	2	1	2	2	
East	Private	3	3	E03	Arc Media, 37b Gillen St,	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2	2	2	2	3	2	2	2	2	2	
East	Private	45	45	E06	Duncan Linton LLP, 45 Erb St. E	4	8	22	31	33	34	31	31	31	28	28	30	35	30	31	29	30	29	25	19	11	6	4	2	
East	Private	7	7	E07	Bethel Chapel, 16 Laurel St.	0	0	1	2	3	3	3	3	3	3	3	2	2	2	3	2	2	1	1	1	1	2	1	1	
East	Private	4	4	E08	Vacant building, 28 Laurel St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
East	Private	5	5	E10	KW Pelvic Health, 48 Laurel St.	3	3	2	2	3	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	
East	Private	4	4	E11	Uptown School of Music, 62 Laurel St.	0	0	0	0	0	0	0	1	1	0	0	0	1	1	1	1	2	2	4	4	3	3	3	3	
East	Private	15	15	E12	Fitzgerald Carpet One, 54 Bridgeport Rd.	0	0	2	1	2	2	2	3	4	4	3	2	3	4	4	4	3	0	0	0	0	0	0	0	
East	Private	30	30	E13	Bridgeport Family Chiropractic, 52 Bridgeport Rd. E	2	2	3	3	4	4	4	4	5	4	4	4	5	5	5	6	10	9	6	2	2	2	3	2	
East	Private	25	25	E14	Vacant building, 50 Bridgeport Rd. E	3	6	5	6	5	6	6	6	6	6	5	6	6	5	3	2	2	0	8	0	0	0	0	0	
East	Private	8	8	E15	Classic Denture, 48 Bridgeport Rd. E at Peppler St.	0	0	1	1	1	1	2	2	3	3	1	1	1	1	2	3	2	1	2	2	1	1	1	0	
East	Private	95	95	E17	Kindred Credit Union, 53 Bridgeport Rd. E at Peppler St.	13	18	32	36	39	41	42	46	42	39	44	37	47	47	45	43	40	47	35	24	25	19	15	13	
East	Private	62	62	E18	Christian Horizons, 26 Peppler St.	10	28	45	51	56	59	57	52	51	48	50	51	51	52	51	43	41	27	12	9	6	5	5	5	
East	Private	88	88	E19	Erb Professional Centre, 55 Erb St. E	14	25	36	39	38	43	46	46	49	38	49	48	48	46	51	58	64	50	43	33	29	16	10	5	

Parking Area						Number of Parked Vehicles Weekday																								
Study Area Zone	Location of Parking (Category)	Actual Number of Stalls	Maximum Number of Stalls	Parking ID	Parking Lot Name/Description																									
						8:00 AM	8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5:00 PM	5:30 PM	6:00 PM	6:30 PM	7:00 PM	7:30 PM	
East	Private	12	12	E20	Learning for Humanity, 9 Willow St.	2	2	3	3	4	4	4	5	4	4	4	4	5	6	4	5	5	1	0	0	0	0	0	0	0
East	Private	8	8	E21	Bliss + Bloom, 7 Willow St.	0	0	3	5	5	5	4	4	5	6	6	6	3	3	4	2	3	4	7	6	4	5	5	4	
East	Private	4	4	E22	Dominion Lending Centres, 59 Erb St. E & Willow St.	1	1	1	3	4	5	5	5	4	4	3	2	2	3	2	1	1	1	1	1	0	0	0	0	
East	Private	11	11	E23	Aaina Salon & Spa, 5 Laurel St.	0	1	1	2	2	2	2	2	2	3	4	2	1	2	2	3	3	2	4	4	4	4	4	3	
East	Private	5	5	M10	Folkway Music, 22 Dupont St. E	0	0	0	1	4	0	5	5	5	5	5	5	5	4	4	5	4	4	3	4	4	0	0	0	
East	Private	2	2	M11	Artemis Canada, 22 Regina St. N	0	0	0	1	1	1	1	1	1	2	2	2	2	1	1	1	1	1	1	0	0	0	0	0	
East	Private	68	68	M12	Various Businesses, 30 Dupont St. E	6	17	35	40	40	43	42	42	35	34	35	29	31	31	29	26	27	27	25	9	7	5	3	3	
East	Private	18	18	M14	Seven Shores, 10 Regina St. N	5	4	6	7	10	9	7	7	10	10	9	11	11	12	11	8	8	14	10	9	9	8	5	7	
East	Private	28	28	M15	Athena Software, 33 Dupont St. E	0	0	0	1	0	0	0	0	2	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	
East	Private	18	18	M16	Vacant lot, 36 Erb St. E	0	0	0	1	1	1	1	1	1	1	1	3	3	3	3	2	2	1	1	0	1	0	2	2	
East	Private	3	3	M17	Guidonian Therapy, 38 Dupont St. E	1	1	2	2	1	1	1	2	2	2	2	2	3	2	2	1	1	2	2	2	1	0	1	0	
East	Private	40	40	M20	Bandlaunch, 36 Erb St. E	1	1	2	2	2	2	2	2	2	3	3	3	3	3	4	3	3	3	3	3	6	3	8	10	
East	Private	45	45	M21	Erb St. E, N side, E of Gillen St.	1	3	12	15	15	14	14	16	18	16	16	16	17	18	16	18	17	16	14	9	6	3	1	1	
East	Private	6	6	M22	Whitewater Financial, 24 Erb St. E	0	0	0	0	1	1	1	1	1	2	2	3	4	4	2	3	3	3	3	3	3	4	5	4	
East	Private	4	4	M23	Blaze Properties, 24 Erb St. E	1	1	1	1	1	1	1	2	3	3	3	3	2	2	3	2	2	2	2	2	2	2	2	2	
East	Private	10	10	M25	Gina's Spa, 9 Regina St. N	0	0	3	5	6	7	6	8	7	10	6	8	7	7	6	7	7	5	4	2	3	4	0	0	
East	Private	2	2	M26	Glow Up by Nancy, 26 Regina St. N	0	0	0	0	0	1	1	2	1	1	2	2	0	0	0	1	1	0	0	1	1	1	0	0	
East	Private	10	10	M30	Express Taylor, 27 Bridgeport Rd. E	0	0	1	1	1	2	1	1	1	1	1	1	1	1	2	2	2	1	2	2	1	0	0	0	
East	Private	20	20	M31	Spool & Spindle, 33 Bridgeport Rd. E	1	1	1	3	6	5	7	3	5	4	4	6	4	4	5	4	4	5	3	2	2	3	3	3	
East	Private	8	8	M32	Whole Tone Music, 43 Bridgeport Rd. E	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	3	5	4	3	2	3	
East	Private	55	55	P02	Investor Group, 87 Regina St. S	2	8	12	11	14	17	16	18	20	18	20	20	18	18	18	15	16	16	7	6	3	2	0	1	
East	Private	7	7	P04	Marbles, 8 William St. E	5	3	3	6	6	6	6	6	6	6	6	7	7	6	6	6	4	4	2	2	2	1	0	3	
East	Private	7	7	P05	HSBC Bank, 136 King St. S	0	1	1	1	2	4	5	3	1	2	2	2	3	2	6	6	3	2	1	0	1	1	0	0	
East	Private	22	22	P15	Scoop Du Jour, 17 Erb St. E	2	2	4	4	6	8	10	11	9	7	9	10	8	9	6	6	8	6	6	5	6	2	0	7	
East	Private	30	30	P16	Hughes Ln. Parking, Hughes Ln. & Regina St. S	5	6	8	8	9	9	11	12	10	9	9	9	9	9	7	8	7	6	6	6	4	4	2	1	4

Parking Area						Number of Parked Vehicles Weekday																								
Study Area Zone	Location of Parking (Category)	Actual Number of Stalls	Maximum Number of Stalls	Parking ID	Parking Lot Name/Description	8:00 AM	8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5:00 PM	5:30 PM	6:00 PM	6:30 PM	7:00 PM	7:30 PM	
East	Private	6	6	P17	Button Factory Arts, 25 Regina St. S	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	
East	Private	12	12	P18	Home Hardware, Hughes Ln. & Regina St. S	4	5	7	9	8	10	10	10	10	9	9	9	9	9	9	9	9	7	6	6	4	2	1	1	7
East	Public	90	90	E02	Station lot, excl. expansion Regina St. S & Erb St. E	9	17	30	43	46	42	42	43	41	47	60	49	45	39	45	42	46	43	40	27	25	19	17	17	
East	Public	24	24	E05	Station Lot expansion, Regina St. S & Erb St. E	0	1	1	1	3	4	5	5	5	5	5	4	3	4	4	4	4	4	3	2	2	2	1	1	0
East	Public	9	9	E24	Willow St. Lot at Spur Line Trail	2	3	6	7	7	7	8	6	6	4	6	7	7	7	7	9	10	8	9	8	5	2	2	2	
East	Public	118	118	E28	Regina Lot, Regina St. S at Laurel Trail	20	46	50	54	56	59	60	59	60	56	61	61	59	57	49	46	44	26	11	15	14	18	19	18	
East	Public	457	457	P01	Uptown Parkade, 60 King St. S	46	78	99	108	105	124	126	128	127	123	124	125	121	128	112	114	97	95	37	30	24	17	14	26	
North	On-Street	2	2	N01	Spring St, S side, W of King St. N	0	0	1	1	1	1	1	1	1	1	0	0	0	0	2	1	1	1	1	1	0	1	1	1	
North	On-Street	4	4	N04	King St N, E side, btwn Spring St. & Young St.	3	3	3	2	4	3	4	4	4	3	3	4	4	3	2	3	3	3	4	4	4	4	4	3	
North	On-Street	7	7	N13	King St N, E side, btwn Bridgeport Rd. & Young St.	0	1	4	1	2	4	3	6	8	6	9	5	4	6	5	5	4	5	5	4	5	4	5	7	
North	On-Street	3	3	N15	Young St, S side, btwn King St. & Regina St.	0	0	0	0	0	2	1	3	2	3	3	3	0	3	4	4	3	3	0	0	0	0	0	0	
North	On-Street	2	2	N19	Regina St., W side, btwn Young St. & Bridgeport Rd.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	
North	On-Street	2	2	N24	Young St E, S side, E of Regina St. N	0	0	2	2	2	2	2	2	2	0	1	1	1	2	2	1	1	2	1	1	1	1	1	0	
North	On-Street	7	7	N29	Regina St, W side, btwn Spring St. & Young St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
North	On-Street	7	7	N34	Regina St., W side, btwn Elgin St. & Spring St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	1	1	2
North	On-Street	7	7	N38	Spring St., N side, btwn Regina St. & King St.	2	2	3	5	5	4	5	3	3	4	4	3	2	3	4	4	5	5	5	6	6	6	5	5	
North	Private	12	12	N02	Tim Hortons, 109 King St. N	5	7	8	10	9	8	8	8	10	11	11	8	6	4	7	3	4	6	4	3	1	1	3	2	
North	Private	2	12	N03	Kentucky BBQ, 103 King St. N	0	0	0	0	0	0	0	0	0	1	1	1	2	2	4	2	3	2	2	1	1	1	1	1	
North	Private	8	8	N05	Old Goat Backs, 99 King St. N	6	6	5	5	6	7	7	6	5	4	7	5	5	6	12	6	5	5	6	5	6	7	8	7	
North	Private	14	14	N06	Different Strokes/Bare Essentials, 95 King St. N	5	6	9	9	8	9	9	8	8	7	10	9	8	10	8	8	12	9	8	6	8	6	6	4	
North	Private	10	10	N07	Headline Barber, 91 King St. N	1	1	2	2	4	5	4	6	2	8	8	8	8	8	8	8	6	10	7	6	4	4	3	4	2
North	Private	6	8	N08	Dive Bar, 85 King St. N	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	5	
North	Private	10	38	N09	The Pub on King, 77 King St. N	1	2	2	2	1	1	1	1	2	2	2	2	1	1	2	2	2	2	3	3	4	4	4	9	
North	Private	2	2	N11	Yorkshire Properties, 78 King St. N	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	1	1	2	2	
North	Private	8	8	N12	Fratello Pizza, 84 King St. N	2	3	3	3	3	3	4	4	3	3	3	3	4	4	3	3	4	4	3	2	3	3	4	3	

Parking Area					Number of Parked Vehicles Weekday																									
Study Area Zone	Location of Parking (Category)	Actual Number of Stalls	Maximum Number of Stalls	Parking ID	Parking Lot Name/Description	8:00 AM	8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5:00 PM	5:30 PM	6:00 PM	6:30 PM	7:00 PM	7:30 PM	
North	Private	10	10	N14	McPhail's Cycle & Sports, 98 King St. N	2	2	5	5	5	4	5	5	8	7	7	7	8	7	5	6	8	6	9	5	3	0	0	4	
North	Private	18	18	N16	Mr. Sub, 102 King St. N	4	5	5	6	5	5	7	8	14	12	10	10	10	11	13	10	12	8	9	5	4	4	5	7	
North	Private	4	4	N17	Soundstage Audio, 59 Regina St. N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
North	Private	3	3	N18	Mortgage Intelligence, 17 Young St. E	0	2	2	2	2	2	2	2	2	1	1	1	1	1	1	1	2	2	2	0	0	0	0	0	
North	Private	11	11	N21	MedX Drugmart, 38 Bridgeport Rd.	0	0	0	1	1	1	3	3	1	4	3	3	5	7	7	7	7	7	5	2	1	1	1	0	
North	Private	6	6	N22	Reception House, 52 Regina St. N	0	0	0	1	1	1	1	1	1	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	
North	Private	4	4	N23	Relish Cooking Studio, 56 Regina St N	0	0	1	1	1	2	3	3	4	5	4	4	2	1	3	2	2	2	2	1	1	0	0	0	
North	Private	12	12	N25	Fairway Divorce / Sanguen Health, 25 Young St. E	5	5	11	13	14	14	12	13	12	12	12	11	13	12	11	11	9	8	5	3	6	4	4	3	
North	Private	6	6	N26	Permit World, 33 Young St. E	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
North	Private	4	4	N27	Unique Boutique, 26 Young St. E	1	1	0	0	1	1	2	2	2	3	2	3	3	3	2	1	3	3	3	1	1	2	2	2	
North	Private	23	23	N28	Rabideau Law, 62 Regina St. N	1	2	6	7	5	7	7	7	4	3	3	4	6	6	6	6	6	5	3	1	1	1	1	1	
North	Private	27	27	N30	Donovan Insurance, 72 Regina St. N	7	13	16	16	19	19	18	20	18	18	18	19	17	17	18	16	9	2	1	1	1	1	0	0	
North	Private	11	11	N31	Gallery Double T, 76 Regina St. N	3	3	3	3	3	3	3	3	3	2	4	3	2	2	3	3	3	3	3	3	4	3	3	3	
North	Private	7	7	N32	Dr. Chow, 78 Regina St. N	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
North	Private	9	9	N33	Lang Family Dentistry, 82 Regina St. N	1	3	8	9	8	8	7	5	6	5	3	5	2	7	6	6	5	5	3	0	0	0	0	0	
North	Private	8	8	N35	Lotus Teahouse, 79 Regina St. N	1	1	1	1	1	1	1	1	3	2	2	2	1	2	2	2	1	1	1	0	0	0	0	0	
North	Private	10	10	N36	Budha's Light Centre, 9 Elgin St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
North	Private	6	6	N37	Vibrant Living, 75 Regina St. N	2	1	0	1	1	1	1	1	3	2	2	2	2	1	2	2	0	1	1	1	1	1	1	0	
North	Private	18	18	N39	Power Mortgage, 69 Regina St. N	5	6	7	8	8	8	7	7	7	6	6	6	5	4	6	6	5	5	2	5	4	4	2	1	
North	Private	10	10	N40	Harmony Dental Care W, 65 Regina St.	3	2	5	4	9	5	4	4	4	4	4	4	4	8	6	7	5	4	4	3	1	0	0	0	
North	Private	24	30	N41	Ethels Lounge, 114 King St. N	4	3	3	5	5	6	7	11	18	16	8	10	6	5	9	8	16	13	18	26	21	26	18	18	
North	Private	8	8	N42	Applewood Dental, 118 King St. N	2	4	3	4	4	3	3	2	4	3	2	2	4	3	3	3	3	1	0	0	0	0	0	0	
North	Private	7	7	N43	Dentistry in Waterloo, 122 King St. N	2	2	2	4	4	3	3	3	3	2	3	3	2	1	0	3	1	0	0	0	0	0	0	0	
North	Private	4	4	N44	Futon Delight, 113 King St. N	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	
North	Public	51	51	N20	Temorary Lot B, NE corner Bridgeport Rd. E & Regina St. N	4	8	8	14	16	16	14	14	15	20	20	21	17	15	16	17	16	19	12	12	16	20	35	32	

Parking Area						Number of Parked Vehicles Weekday																								
Study Area Zone	Location of Parking (Category)	Actual Number of Stalls	Maximum Number of Stalls	Parking ID	Parking Lot Name/Description	8:00 AM	8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5:00 PM	5:30 PM	6:00 PM	6:30 PM	7:00 PM	7:30 PM	
South	On-Street	8	8	E26	William St E, N side, E of Herbert St.	0	0	0	2	2	1	1	1	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
South	On-Street	8	8	E27	William St E, N side, btwn Herbert St and Regina St E	0	4	3	6	4	2	2	5	5	3	3	2	3	4	2	4	3	2	0	0	0	0	0	0	
South	On-Street	7	7	L07	John St. W, N side, btwn King St. and Caroline St.	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	
South	On-Street	10	10	L11	John St. W, N side, btwn Caroline St & Park St.	0	0	0	0	1	2	3	3	3	2	2	3	4	2	2	2	1	1	2	2	0	0	0	0	
South	On-Street	7	7	L22	Allen St W, S side, btwn Caroline St. & Park St.	3	2	2	3	4	2	3	3	3	3	3	5	4	4	3	5	5	5	5	5	5	5	5	5	
South	On-Street	2	2	L23	Allen St W, N side, btwn Caroline St. & Park St.	1	1	0	0	0	0	0	1	1	1	1	1	2	0	0	1	1	1	1	1	1	1	1	1	
South	On-Street	2	2	L24	Allen St. W, S side, E of Caroline St. S.	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	0	
South	On-Street	6	6	L25	Caroline St. S, E side, btwn Allen St. & John St.	2	3	4	4	5	4	4	4	4	4	3	5	5	5	4	4	4	5	5	5	5	5	5	5	
South	On-Street	1	1	L26	Allen St., S side, E of Park St.	1	1	0	0	0	1	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	1	1	1	
South	On-Street	7	7	P09	Kuntz Ln., E side, S of William St. W	3	4	5	6	5	5	5	6	6	6	6	5	4	4	4	5	3	3	2	2	2	1	1	4	
South	On-Street	4	4	S01	King St. N, W side, btwn parking access \& William St.	2	2	4	3	4	4	4	4	4	3	4	4	4	4	4	4	4	4	4	4	4	3	3	3	
South	On-Street	10	10	S02	King St. N, W side, btwn Willis Way & parking access	1	6	9	10	10	10	9	10	10	10	10	10	10	7	10	10	8	10	10	8	8	10	10	9	
South	On-Street	4	4	S15	Park St, W side, N of William St.	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	
South	On-Street	4	4	S18	Fullerton St., N side, btwn Caroline St. and Park St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South	On-Street	10	10	S19	Fullerton St., S side, btwn Caroline St. & Park St.	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South	On-Street	2	2	S20	Norman St., N side, btwn Caroline St. & Park St.	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South	On-Street	4	4	S21	Norman St., S side, btwn Caroline St. & Park St.	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	0	0	
South	On-Street	19	19	S23	Kuntz Ln., W side btwn William St. W & King St. S	3	8	13	13	14	15	15	15	10	11	12	12	14	11	10	11	6	6	5	6	6	3	3	3	
South	On-Street	3	3	S33	George St, S side, E of King St.	3	4	4	4	3	3	4	4	2	2	2	3	2	2	2	2	0	0	0	0	0	0	0	0	
South	On-Street	3	3	S34	King St. S, W side, btwn Kuntz Ln. & George St.	2	1	2	2	2	2	3	3	3	3	2	2	2	1	1	1	1	1	1	2	0	0	1	1	
South	On-Street	7	7	S35	King St. S, W side, btwn William St. & Kuntz Ln.	0	0	0	0	0	0	3	3	3	2	2	1	1	2	1	0	2	2	2	2	2	0	0	0	
South	Private	438	438	L01	Sun Life Garage, 20-32 John St. W	12	17	26	21	35	36	36	37	37	39	39	33	39	33	33	30	23	20	22	25	12	2	1	1	
South	Private	72	72	L02	Vincenzo's, 150 Caroline St. S	11	19	24	29	38	39	39	41	42	45	46	64	58	56	47	49	40	39	38	36	48	65	58	61	
South	Private	6	6	L03	Carve & Tattoo Shop, 194 King St. S	0	1	1	2	3	5	4	3	3	3	3	2	3	3	3	2	2	1	1	1	1	2	2	2	

Parking Area						Number of Parked Vehicles Weekday																								
Study Area Zone	Location of Parking (Category)	Actual Number of Stalls	Maximum Number of Stalls	Parking ID	Parking Lot Name/Description	8:00 AM	8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5:00 PM	5:30 PM	6:00 PM	6:30 PM	7:00 PM	7:30 PM	
South	Private	5	5	L04	Will Therapy Services, 16 John St.	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	1	1	1	
South	Private	8	8	L05	Clinical offices, 12 John St. W	0	2	1	1	1	2	3	2	2	2	2	2	1	2	2	2	2	2	2	2	2	3	2	1	
South	Private	16	16	L06	Grooming with Finesse, 207 King St. S	3	1	1	2	2	2	2	3	3	3	3	3	4	3	3	3	3	3	3	3	3	2	2	2	
South	Private	15	16	L08	Contractors lot, John St., S side, btwn King St. & Caroline St.	8	12	11	11	0	11	12	12	12	12	11	11	8	9	2	0	0	0	0	0	0	1	1	1	1
South	Private	6	6	L09	Sun Life Accessible lot, Caroline St. at Sun Life	2	2	2	2	2	2	2	2	2	2	2	2	1	1	0	0	0	0	0	0	0	1	1	1	
South	Private	75	107	L10	Sunlife Financial Lot, SW corner of Park St. & John St. W	40	53	54	54	54	57	57	52	51	53	52	48	47	42	35	30	23	19	25	23	19	15	13	12	
South	Private	10	10	L12	Vacant lot, 163 Park St.	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South	Private	6	6	L13	Caley Orthodontic, 151 Park St.	3	3	3	3	3	3	4	5	4	4	4	2	1	2	2	5	5	5	5	5	5	5	5	5	
South	Private	8	8	L14	Kaus Dentistry, 37 Allen St. W	1	2	2	5	3	4	3	4	4	3	3	1	2	3	3	4	4	3	4	4	2	0	0	0	
South	Private	7	7	L15	Park Place Therapeutics, 129 Park St.	0	0	3	3	2	3	3	2	2	1	1	6	7	6	6	4	3	2	2	2	3	4	4	3	
South	Private	3	3	L16	Carleton Neurology, 127 Park St.	0	1	1	1	2	2	2	2	2	2	3	3	2	2	2	4	3	3	3	2	2	2	2	2	
South	Private	7	7	L17	Jolanta's European Spa, 125 Park St.	0	0	0	2	3	4	2	2	2	1	2	2	3	3	3	2	3	3	3	3	2	1	1	1	
South	Private	11	11	L18	Chiropractors, 121 Park St.	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
South	Private	3	3	L19	The Vetta Group, 117 Park St.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
South	Private	8	8	L20	Elemental, 109 Park St.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South	Private	9	9	L21	Handworx, 105 Park St.	0	0	0	0	0	0	0	3	3	3	3	5	5	5	5	3	3	6	5	5	4	4	4	4	
South	Private	0	0	P06	Neighborhood Credit Union, 164 Kuntz Ln.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
South	Private	3	3	P07	Three Tides Wellness, 158 Kuntz Ln.	1	1	1	2	1	1	1	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	0	0	
South	Private	10	10	P08	Stocom Research, 156 Kuntz Ln.	0	1	3	3	3	2	2	2	2	2	2	1	2	2	2	1	1	0	0	1	1	1	1	0	
South	Private	10	10	P10	Coupal Markou Real Estate, 150 Kuntz Ln.	1	6	8	10	11	9	8	10	6	6	7	8	6	6	7	7	3	4	3	2	2	1	1	1	
South	Private	6	6	S12	Uptown Tailor Shop, 89 Caroline St. S.	0	0	0	1	1	2	2	1	2	2	2	1	2	1	1	1	1	1	1	1	1	0	0	0	
South	Private	4	4	S13	Art Store, 89 Caroline St. S	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	
South	Private	102	102	S14	Privat Lot, NE of Park St. & William St. W	0	2	7	9	9	9	10	10	11	9	9	9	9	9	10	10	9	9	8	1	0	0	0	0	
South	Private	19	19	S16	Private Lot, SW corner of William St. W & Caroline St. S	4	5	6	6	7	8	8	6	6	6	5	3	4	7	6	6	3	3	4	2	1	2	2		
South	Private	21	21	S17	Chartwell, 100 Caroline St. S	9	9	12	16	15	15	7	8	13	15	10	8	8	9	11	10	9	10	9	8	6	6	9	7	

Parking Area						Number of Parked Vehicles Weekday																							
Study Area Zone	Location of Parking (Category)	Actual Number of Stalls	Maximum Number of Stalls	Parking ID	Parking Lot Name/Description	8:00 AM	8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5:00 PM	5:30 PM	6:00 PM	6:30 PM	7:00 PM	7:30 PM
South	Private	84	84	S22	Erb & Good Funeral Home, 171 King St. S	4	10	14	14	14	16	14	14	14	14	19	23	29	29	29	19	14	12	7	5	5	17	12	
South	Private	104	104	S24	Private Lot, John St. S side, W of Park St.	20	21	23	24	24	26	24	24	21	22	22	23	21	19	17	20	9	6	4	1	0	2	2	1
South	Private	33	33	S25	Combined lot behind 177-189 Park St.	9	10	11	14	13	12	13	14	14	14	14	16	14	16	12	13	14	13	13	15	15	14	12	12
South	Private	21	21	S26	Vision Travel, 234 King St. S	2	4	7	7	7	7	7	8	7	7	7	9	10	12	10	9	5	3	3	1	1	0	0	0
South	Private	15	15	S27	Voila, 228 King St. S	4	6	9	10	11	13	13	13	13	11	10	12	12	6	7	6	4	3	0	0	0	0	1	1
South	Private	12	12	S28	Burger's Priest, 212 King St. S	0	0	0	0	0	1	1	1	2	2	2	3	1	2	2	2	5	4	5	6	4	2	2	2
South	Private	10	10	S29	King Street Dental Centre, 208 King St. S	2	1	5	5	5	7	6	7	4	3	4	6	7	7	8	7	9	9	7	4	2	1	1	1
South	Private	9	9	S30	Hartman Chiropody, 200 King St. S	0	3	2	2	2	3	2	2	2	1	1	2	4	2	3	3	4	3	2	3	1	0	0	0
South	Private	55	55	S31	Allen Square, 180 King St. S	1	5	14	19	19	19	19	18	18	19	19	19	21	19	20	20	10	9	7	1	0	0	3	3
South	Private	19	19	S32	Oldifeld Greaves, 172 King St. S	4	4	4	5	5	5	4	4	4	7	7	7	7	4	4	3	1	1	1	0	0	0	0	0
South	Private	3	3	S36	Bridal Shop, 20 William St. W	0	0	0	0	0	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0
South	Private	20	20	S37	Bailey's Foods, 16 William St. W	2	8	15	16	11	11	12	15	15	18	17	10	11	4	1	2	1	1	1	0	0	0	1	0
South	Public	161	161	E25	City Centre Parking Lot, W side of William St. E, N of Herbert St.	10	23	34	44	37	47	51	48	45	38	53	58	47	62	58	46	46	37	17	13	11	9	7	5
South	Public	30	30	P11	William Parking Lot, S side of William St. E, E of Regina St. S	12	12	12	12	13	12	12	11	13	13	13	11	11	11	10	9	7	6	6	5	5	4	1	4
South	Public	12	12	P12	Herbert Parking Lot, S side of William St. E, E of Regina St.	4	4	3	4	4	4	4	5	5	5	5	5	5	5	5	4	5	4	1	1	2	1	0	0
South	Public	273	273	S08	Waterloo Town Square S Lot E side Caroline St., S of Willis Wy	27	68	118	133	157	186	202	215	250	252	241	203	210	192	219	223	184	188	205	191	191	192	193	194
South	Public	97	97	S09	Caroline S Lot - NW corner of Caroline St. S & Alexandra Av.	2	4	8	16	16	16	17	19	17	18	15	13	13	14	15	15	12	11	6	5	1	1	1	1
South	Public	112	112	S10	Caroline N Lot -W side of Caroline St. S - S of Willis Way	17	22	29	37	37	39	39	42	42	40	39	36	39	36	36	37	29	26	17	16	12	12	12	10
South	Public	16	16	S11	Alexandra Lot, SW corner of Alexandra Av. & Caroline St. S	1	4	8	8	9	10	9	9	9	9	9	9	9	9	8	8	8	7	3	2	1	3	5	5
West	On-Street	8	8	M03	Princess St, S side, btwn King St. & Dorset St.	0	0	0	1	0	1	1	1	2	3	4	5	3	3	3	3	6	5	5	5	6	3	6	7
West	On-Street	8	8	M05	King St. N, E side, btwn Dupont St. & Princess St.	2	2	1	1	4	3	7	7	3	5	4	4	5	5	5	3	5	7	8	6	6	3	8	8
West	On-Street	6	6	M06	King St. N, E side, btwn Erb St. & Dupont St.	0	0	5	5	5	5	5	5	5	5	4	3	5	3	3	3	5	5	5	4	3	3	4	5
West	On-Street	8	8	M08	Dupont St. E, S side, btwn King St. & Regina St.	2	2	3	3	5	5	5	6	8	6	5	8	6	6	5	6	6	6	7	5	5	6	7	8
West	On-Street	9	9	M35	Princess St. E, S side, btwn Regina St. & King St.	0	0	1	2	2	2	1	3	1	2	1	2	3	5	2	3	4	4	5	6	7	6	8	8

Parking Area					Number of Parked Vehicles Weekday																								
Study Area Zone	Location of Parking (Category)	Actual Number of Stalls	Maximum Number of Stalls	Parking ID	Parking Lot Name/Description	8:00 AM	8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5:00 PM	5:30 PM	6:00 PM	6:30 PM	7:00 PM	7:30 PM
West	On-Street	9	9	M37	King St. N, E side, btwn Princess St. & Bridgeport Rd.	0	0	0	0	2	4	4	5	3	3	4	4	4	4	1	0	1	3	7	3	3	6	8	9
West	On-Street	4	4	S03	Willis Way, S side, btwn parking access & King St.	0	0	0	0	1	4	3	3	3	3	4	4	3	4	4	3	4	4	4	4	4	4	3	4
West	On-Street	4	4	S04	Willis Way, N side, btwn parking access & King St.	0	0	1	1	3	3	4	4	2	3	3	3	3	2	2	2	2	3	2	3	3	2	3	3
West	On-Street	6	6	S05	Willis Way, S side, btwn lane & Caroline St.	0	1	3	4	4	5	5	6	5	5	4	5	5	6	6	5	5	5	5	5	5	4	5	5
West	On-Street	4	4	S06	Willis Way, S side, E of Caroline St.	0	0	1	1	2	4	2	2	2	1	4	3	3	4	3	3	2	3	3	3	3	4	3	3
West	On-Street	10	10	S07	Willis Way, N side, btwn Caroline St. & lane	1	1	2	3	7	9	9	9	8	8	8	9	8	10	7	7	7	6	6	6	10	7	7	7
West	On-Street	7	7	W02	King St. S, W side, S of Willis Way & N of lane	1	4	2	2	5	3	5	6	6	4	5	6	5	5	6	4	4	6	6	5	5	6	6	6
West	On-Street	4	4	W03	King St. S, E side, btwn Erb St. & Laurel Trail	2	3	3	2	2	3	5	3	4	3	4	4	3	2	3	3	2	2	2	1	4	3	3	2
West	On-Street	10	10	W10	Dorset St, W side, btwn Princess St. & Albert St.	3	2	2	6	7	5	6	7	6	9	10	8	7	7	7	7	8	6	4	4	6	7	8	10
West	On-Street	3	3	W11	Dorset St, E side, N of Princess St.	1	0	0	1	1	0	1	2	2	2	1	3	1	3	2	1	1	1	3	1	1	0	0	3
West	On-Street	11	11	W17	Albert St., E side, btwn Caroline St. & Princess St.	4	9	10	9	9	10	10	9	10	9	10	9	10	11	11	7	7	5	7	5	5	4	4	3
West	On-Street	5	5	W22	Father David Bauer Dr., N side, W of Caroline St.	2	2	4	2	3	4	5	4	4	3	2	2	3	4	2	4	5	3	2	4	3	4	2	3
West	On-Street	5	5	W23	Father David Bauer Dr., S side, W of Caroline St.	0	0	7	3	3	3	5	3	4	5	3	3	4	5	4	4	3	3	4	3	2	1	2	1
West	On-Street	9	9	W25	Father David Bauer Dr., E side, S of Erb St.	0	1	0	1	2	1	3	6	6	6	6	5	3	3	2	3	3	4	2	1	2	3	2	3
West	On-Street	11	11	W28	Father David Bauer Dr., S side, btwn Barrel Yards Blvd. accesses.	4	4	4	4	5	4	3	3	4	4	6	8	10	8	10	12	12	10	10	11	8	10	10	9
West	On-Street	9	9	W29	Father David Bauer Dr., S side, btwn Barrel Yards Blvd. and Erb St.	3	3	4	4	4	4	4	4	2	4	5	5	4	5	3	3	4	4	5	1	1	0	1	1
West	On-Street	2	2	W33	Menno St., W side, S of Erb St.	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
West	On-Street	2	2	W35	Euclid Av., W side, S of Erb St. W	0	0	1	0	1	1	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
West	Private	5	5	M01	Sweet Seven Canabis, 71 King St. N	0	0	0	0	0	0	0	0	3	2	1	0	0	2	2	1	1	2	2	3	2	3	4	
West	Private	20	20	M02	Huether Hotel, 59 King St. N	5	5	4	4	6	6	6	5	9	8	7	11	8	8	5	7	7	7	8	10	8	11	13	17
West	Private	4	4	M04	Jane Bond, 5 Princess St. E	0	0	1	1	0	0	3	3	2	3	1	3	1	2	2	2	2	2	2	2	2	2	2	3
West	Private	12	12	M07	Munzy Gallery, 32 King St. N	3	5	6	6	6	6	6	8	12	9	9	9	9	11	9	10	10	10	10	10	6	6	7	6
West	Private	31	31	M09	Miami Streetlights, SW corner of Regina St. N & Dupont St. E	8	6	6	6	7	8	6	6	7	7	7	7	6	7	8	9	9	11	12	13	12	13	14	11
West	Private	14	14	M24	The Owl of Minerva, 2 King St. N	7	8	8	8	8	9	9	7	6	5	8	6	9	9	6	5	7	7	7	7	7	11	11	10

Parking Area						Number of Parked Vehicles Weekday																							
Study Area Zone	Location of Parking (Category)	Actual Number of Stalls	Maximum Number of Stalls	Parking ID	Parking Lot Name/Description	8:00 AM	8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5:00 PM	5:30 PM	6:00 PM	6:30 PM	7:00 PM	7:30 PM
West	Private	45	45	M27	Vital, 25 Regina St. N	3	6	6	10	10	9	9	9	8	7	8	7	7	7	6	10	10	9	10	11	12	11	14	18
West	Private	3	3	M28	Cowboys & Angels, 16 Princess St. E	0	0	0	0	0	0	0	1	0	0	1	1	0	1	1	1	1	1	1	0	0	0	0	0
West	Private	12	12	M36	Kitchener-Waterloo Little Theatre, 9 Princess St. E	0	0	0	0	2	2	1	2	3	2	2	1	1	1	1	2	2	2	1	1	2	4	10	12
West	Private	2	2	N10	N of Sweet Seven Canabis, 71 King St. N	2	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
West	Private	21	21	W04	Communitech, 14 Erb St.	4	4	5	7	7	7	7	5	5	7	7	7	7	8	7	7	5	3	4	2	2	1	1	1
West	Private	106	106	W05	Marsland Centre, SW corner of Dupont St. & Albert St.	7	18	39	56	62	70	75	73	63	61	55	64	69	69	70	55	46	36	20	17	8	8	6	7
West	Private	12	12	W06	Marsland Centre, Dupont St., S side, W of Caroline St. N	1	2	2	2	3	2	2	2	1	1	1	2	2	3	3	2	2	1	2	2	2	2	1	0
West	Private	61	61	W07	Knox Church, 50 Erb St. W	6	6	7	8	11	12	13	13	14	14	15	13	16	18	17	13	19	28	39	42	40	28	12	14
West	Private	10	10	W09	Seeds of Diversity Canada, 12 Dupont St. W	7	5	3	3	3	2	2	2	2	2	1	2	2	1	2	3	3	3	6	6	7	6	6	7
West	Private	6	6	W12	Cosmetic Surgery, 50 Albert St.	1	1	3	2	3	4	5	2	2	2	4	3	5	3	2	2	4	3	2	0	0	0	0	0
West	Private	7	7	W13	Wisdom Private Wealth, 54 Albert St.	3	3	4	5	5	5	4	7	6	5	6	6	6	6	6	6	6	5	4	2	2	1	1	1
West	Private	16	16	W15	Insight Eye Care, 49 Albert St.	1	2	1	2	3	7	10	10	9	7	9	3	6	5	9	5	7	3	4	3	1	2	0	0
West	Private	4	4	W16	CITYSTUDIO Waterloo, 40 Albert St.	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	2	2	1	1	1	1	1	1	0
West	Private	10	10	W18	Chiropractor Clinic, 57 Albert St.	1	5	6	7	7	7	4	1	1	2	4	10	6	7	6	5	5	4	9	5	2	0	0	0
West	Private	5	5	W20	Mall Lot S of Laurel Trail, W side of Caroline St. S, N of Mall	0	0	3	1	2	2	2	2	2	1	1	1	1	1	1	1	1	1	0	0	1	0	0	0
West	Private	149	149	W21	CIGI, Father David Bauer Dr., N side, W of Caroline St. S	13	27	46	55	59	65	68	71	69	70	87	71	69	68	66	57	48	35	23	17	13	10	5	5
West	Private	26	26	W24	RE/MAX, 7 Father David Bauer Dr.	0	0	1	3	3	4	3	2	2	2	2	2	1	1	0	1	2	1	1	0	0	0	0	0
West	Private	14	14	W26	RE/MAX & Sol Restaurant NE lot, 83 Erb St. W	3	4	5	5	5	5	4	5	3	4	2	2	2	2	2	1	1	0	0	0	0	0	1	1
West	Private	46	46	W30	Delta Hotel, East Lot 110 Erb S. W	16	12	12	8	8	9	6	5	7	5	1	2	0	1	6	10	12	14	23	38	35	34	32	32
West	Private	8	8	W31	Lot Behind 114 to 118 Erb St. W	0	1	1	2	2	2	2	2	1	0	0	1	1	1	1	2	1	1	1	0	0	0	0	0
West	Private	12	12	W32	Dentist, 3 Menno St.	2	3	4	4	4	4	4	6	5	4	3	4	4	4	4	5	4	4	3	0	0	0	0	0
West	Private	21	21	W34	Various Businesses, 107-109 Erb St. W	7	7	11	10	11	14	17	14	12	10	12	16	12	13	13	11	12	12	4	4	4	5	5	7
West	Private	47	47	W36	RE/MAX & Sol Restaurant main lot, 83 Erb StW	0	3	6	10	9	8	7	21	29	26	31	19	15	10	9	10	7	7	9	13	17	23	23	26
West	Public	217	217	W01	Town Square N lot, Erb St. W	16	32	42	60	84	107	107	118	144	161	167	163	157	134	137	127	100	100	99	110	120	166	164	154

Parking Area					Number of Parked Vehicles Weekday																								
Study Area Zone	Location of Parking (Category)	Actual Number of Stalls	Maximum Number of Stalls	Parking ID	Parking Lot Name/Description	8:00 AM	8:30 AM	9:00 AM	9:30 AM	10:00 AM	10:30 AM	11:00 AM	11:30 AM	12:00 PM	12:30 PM	1:00 PM	1:30 PM	2:00 PM	2:30 PM	3:00 PM	3:30 PM	4:00 PM	4:30 PM	5:00 PM	5:30 PM	6:00 PM	6:30 PM	7:00 PM	7:30 PM
West	Public	118	118	W08	Dupont lot (Library), NW corner of Dupont St. W & Caroline St.	5	8	13	19	21	21	21	24	22	23	27	24	26	22	20	19	18	25	35	40	33	26	32	21
West	Public	27	27	W14	Library Lot, SW corner of Albert St. & Princess St. W	2	3	6	8	9	7	7	11	9	8	11	9	13	12	13	10	9	7	7	5	7	5	4	3
West	Public	82	82	W19	Perimeter & Gallery Lot, 31 Caroline St. N	16	28	38	41	52	59	63	71	75	73	76	69	69	67	60	45	47	35	29	18	14	16	14	11
West	Public	90	90	W27	Museum Lot, 83 Erb St. W at Father David Bauer Dr.	0	2	4	10	12	13	13	15	16	19	18	16	18	17	15	9	9	8	11	12	11	10	6	6

Appendix B – Public Lot Rules and Rates

Study Area Zone	Public Parking Lot Name, Location	Generalized Regulations / Rates	Number of Stalls
East	Regina Parking Lot, Regina St. S	Permit	118
East	Station Parking lot, Including Gillen Lot, Regina St. S & Erb St. E	Permit and 2hr Free (extendable)	104
East	Uptown Parkade, Willis Way & King St. S	Pay & Display	314
East		Pay & Display or Permit	60
East		Permit	83
East	Willow St. Lot, Willow St at William Way	Permit	9
North	Temporary Parking Lot B, NE corner Bridgeport Rd E & Regina St N	Permit and 2hr Free (extendable)	51
South	Alexandra Lot, SW of Alexandra Ave and Caroline St. S	Permit	16
South	Caroline N Lot, West side of Caroline St S - south of Willis Way	Permit	112
South	Caroline S Lot , NW corner of Caroline St S & Alexandra Ave	Permit	97
South	City Centre Parking Lot, West side of William St E North of Herbert St	2hr Free (for City Centre Customers only)	53
South		Permit	108
South	Herbert Parking Lot, SE corner William St E & Herbert St	Permit	12
South	Waterloo Town Square South Lot, E side Caroline St S - S of Willis Way	2hr Free	213
South	Waterloo Town Square South Lot, E side Caroline St S - S of Willis Way	Permit	60
South	William Parking Lot, E side of William St E, N of Regina St S	Permit	30
West	Dupont Lot, NE corner of Caroline St N & Dupont St. W	Pay & Display	13
West		Permit	105

West	Library Lot, Albert St	Pay & Display	27
West	Museum Lot, NW corner of Erb St. W & Father David Bauer Dr	2Hr Free	54
West		Permit	36
West	Perimeter & Gallery Lot, W of Caroline St. N & Dupont St. W	Permit	82
West	Town Square N Lot, SE corner of Caroline St S & Erb St. W	2Hr Free	217
TOTAL:			1974

Appendix C – Street Parking Rules and Rates

Study Area Zone	Street Parking Area Description	Parking Regulations and Rates (Detailed)	Parking Regulations and Rates (Generalized)	Number of Stalls
East	Gillen St, E side, S of Erb St. E	no signage	3 Hours	3
East	Laurel St., W side, btwn Erb St. E & Moore Av.	no signage	3 Hours	28
East	Peppler St., E side, btwn Bridgeport Rd. and Brighton Yards Drvwy.	no signage	3 Hours	8
East	Peppler St., E side, btwn Dupont St. & Princess St.	no signage	3 Hours	15
East	Peppler St., E side, btwn Erb St. & Dupont St.	no signage	3 Hours	6
East	Peppler St. E, E side, btwn Princess St. & Bridgeport Rd.	no signage	3 Hours	6
North	King St N, E side, btwn Spring St. & Young St.	no signage	3 Hours	4
North	King St N, E side, btwn Bridgeport Rd. & Young St.	no signage	3 Hours	7
North	Spring St., N side, btwn Regina St. & King St.	no signage	3 Hours	7
South	Park St, W side, N of William St.	no signage	3 Hours	4
South	Fullerton St., N side, btwn Caroline St. and Park St.	no signage	3 Hours	4

South	Fullerton St., S side, btwn Caroline St. & Park St.	no signage	3 Hours	10
South	Norman St., N side, btwn Caroline St. & Park St.	no signage	3 Hours	2
South	Norman St., S side, btwn Caroline St. & Park St.	no signage	3 Hours	4
South	Kuntz Ln., W side btwn William St. W & King St. S	3 Hours	3 Hours	19
West	Albert St., E side, btwn Caroline St. & Dupont St.	no signage	3 Hours	11
sub-total				138
East	Dupont St. E, S side, btwn Pepler St. & Regina St.	2Hr 8am-6pm M-F	2 Hours	14
East	Princess St. E, S side, btwn Pepler St. & Regina St.	2Hr 8am-6pm M-F	2 Hours	14
North	Spring St, S side, W of King St. N	2Hr 8am-6pm M-F	2 Hours	2
North	Young St E, S side, E of Regina St. N	2Hr 8am-6pm M-F	2 Hours	2
South	John St. W, N side, E of Caroline St.	2Hr 8am-6pm M-Sat	2 Hours	4
South	John St. W, N side, btwn Caroline St & Park St.	2Hr 8am-6pm M-Sat	2 Hours	10
South	Allen St W, S side, btwn Caroline St. & Park St.	2Hr 8am-6pm M-Sat	2 Hours	6
South	Allen St W, N side, btwn Caroline St. & Park St.	2Hr 8am-6pm M-Sat	2 Hours	2
South	Allen St., S side, E of Park St.	2Hr 8am-6pm M-F	2 Hours	1
South	George St, S side, E of King St.	2Hr 8am-6pm M-Sat	2 Hours	3
West	Father David Bauer Dr., N side, W of Caroline St.	2Hr 8am-6pm M-F	2 Hours	5
West	Father David Bauer Dr., S side, W of Caroline St.	2Hr 8am-6pm M-F	2 Hours	5
West	Father David Bauer Dr., E side, S of Erb St.	2Hr 8am-6pm M-F	2 Hours	9
West	Father David Bauer Dr., S side, btwn Barrel Yards Blvd. accesses.	2Hr 8am-6pm M-F	2 Hours	11
West	Father David Bauer Dr., S side, btwn Barrel Yards Blvd. and Erb St.	2Hr 8am-6pm M-F	2 Hours	9
sub-total				97
East	Regina St. S, W side, btwn William St. E & Willis Way	30 Min 8am-6pm M-F	1 Hour	6

East	Regina St. S, E side, btwn Willis Way & William St.	1Hr 8am-6pm M-F	1 Hour	6
East	Regina St. S, E side, N of Willis Way	1Hr 8am-6pm M-F	1 Hour	4
North	Young St, S side, btwn King St. & Regina St.	1Hr 8am-10pm M-Sat	1 Hour	3
North	Regina St., W side, btwn Young St. & Bridgeport Rd.	1Hr 8am-6pm M-Sat	1 Hour	2
North	Regina St, W side, btwn Spring St. & Young St.	1Hr 8am-6pm M-Sat	1 Hour	7
North	Regina St., W side, btwn Elgin St. & Spring St.	1Hr 8am-6pm M-Sat	1 Hour	7
South	William St E, N side, E of Herbert St.	1Hr 8am-6pm M-F	1 Hour	8
South	William St E, N side, btwn Herbert St and Regina St E	1Hr 8am-6pm M-F	1 Hour	8
South	John St. W, N side, W of King St.	1Hr 8am-6pm M-Sat	1 Hour	3
South	Caroline St. S, E side, btwn Allen St. & John St.	1Hr 8am-6pm M-Sat	1 Hour	6
South	King St. N, W side, btwn lane & William St.	1Hr 8am-6pm M-Sat	1 Hour	4
South	King St. N, W side, btwn Willis Way & lane	1Hr 8am-6pm M-Sat	1 Hour	10
South	King St. S, W side, btwn Kuntz Ln. & George St.	1Hr 8am-6pm M-Sat	1 Hour	3
South	King St. S, W side, btwn William St. & Kuntz Ln.	1Hr 8am-6pm M-Sat	1 Hour	7
West	Princess St, S side, btwn King St. and Dorset St.	1Hr 8am-6pm M-Sat	1 Hour	8
West	King St. N, E side, btwn Dupont St. & Princess St.	1Hr 8am-6pm M-Sat	1 Hour	8
West	King St. N, E side, btwn Erb St. & Dupont St.	1Hr 8am-6pm M-Sat	1 Hour	6
West	Dupont St. E, S side, btwn King St. & Regina St.	1Hr 8am-6pm M-F	1 Hour	8
West	Princess St. E, S side, btwn Regina St. & King St.	1Hr 8am-6pm M-Sat	1 Hour	9
West	King St. N, E side, btwn Princess St. & Bridgeport Rd.	1Hr 8am-6pm M-Sat	1 Hour	8
West	King St. N, E side, btwn Princess St. & Bridgeport Rd.	1Hr 8am-6pm M-Sat (Accessible)	1 Hour	1
West	Willis Way, S side, btwn lane & King St.	1Hr 8am-6pm M-Sat	1 Hour	4

West	Willis Way, N side, btwn lane & King St.	1Hr 8am-6pm M-Sat	1 Hour	4
West	Willis Way, S side, btwn lane & Caroline St.	1Hr 8am-6pm M-Sat	1 Hour	6
West	Willis Way, S side, E of Caroline St.	1Hr 8am-6pm M-Sat	1 Hour	4
West	Willis Way, N side, btwn Caroline St. & lane	1Hr 8am-6pm M-Sat	1 Hour	10
West	King St. S, W side, S of Willis Way & N of lot access	1Hr 8am-6pm M-Sat	1 Hour	7
West	King St. S, E side, btwn Erb St. & Laurel Trail	1Hr 8am-6pm M-Sat	1 Hour	4
West	Dorset St, W side, btwn Princess St. & Albert St.	1Hr 8am-6pm M-Sat	1 Hour	10
West	Dorset St, E side, N of Princess St.	1Hr 8am-6pm M-Sat	1 Hour	3
West	Menno St., W side, S of Erb St.	1Hr 8am-6pm M-F	1 Hour	2
West	Euclid Av., W side, S of Erb St. W	1Hr 8am-6pm M-F	1 Hour	2
sub-total				188
East	Regina St. S, W side, btwn William St. E & Willis Way	30 Min 8am-6pm M-F (Accessible)	30 Minutes	1
sub-total				1
South	Kuntz Ln., E side, S of William St. W	30 Min 8am-6pm M-Sat	30 Minutes	7
sub-total				7
South	Allen St W, S side, btwn Caroline St. & Park St.	15 Minutes loading, M-Sun	15 Minutes	1
sub-total				1
South	Allen St. W, S side, E of Caroline St. S.	Accessible	Accessible	2
sub-total				2
East	Regina St. S, W side, btwn William St. E & Willis Way	Reserved for Vaccine Deliveries	Reserved for Vaccine Deliveries	1
sub-total				1