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## Residential Buildings Development

# 1356 Clyde Avenue 

TIA Strategy Report

prepared for:
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May 1, 2020

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## TIA Plan Reports

On 14 June 2017, the Council of the City of Ottawa adopted new Transportation Impact Assessment (TIA) Guidelines. In adopting the guidelines, Council established a requirement for those preparing and delivering transportation impact assessments and reports to sign a letter of certification.

Individuals submitting TIA reports will be responsible for all aspects of developmentrelated transportation assessment and reporting, and undertaking such work, in accordance and compliance with the City of Ottawa's Official Plan, the Transportation Master Plan and the Transportation Impact Assessment (2017) Guidelines.

By submitting the attached TIA report (and any associated documents) and signing this document, the individual acknowledges that s/he meets the four criteria listed below.

## CERTIFICATION

1. I have reviewed and have a sound understanding of the objectives, needs and requirements of the City of Ottawa's Official Plan, Transportation Master Plan and the Transportation Impact Assessment (2017) Guidelines;
2. I have a sound knowledge of industry standard practice with respect to the preparation of transportation impact assessment reports, including multi modal level of service review;
3. I have substantial experience (more than 5 years) in undertaking and delivering transportation impact studies (analysis, reporting and geometric design) with strong background knowledge in transportation planning, engineering or traffic operations; and
4. I am either a licensed1 or registered 2 professional in good standing, whose field of expertise [check $\checkmark$ appropriate field(s)] is either transportation engineering $\downarrow$ or transportation planning $\square$.

1,2 License of registration body that oversees the profession is required to have a code of conduct and ethics guidelines that will ensure appropriate conduct and representation for transportation planning and/or transportation engineering works.
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## Strategy Report

Parsons has been retained by GOLPRO HOLDINGS INC. to prepare a TIA in support of a Zoning By-Law Amendment Application (ZBLA), for a proposed residential buildings development in Ward 8: College. The following report represents Step 4 - Strategy, of the TIA process.

### 1.0 SCREENING FORM

The Screening Form was submitted to the City of Ottawa for review and verification of the need to complete a Transportation Impact Assessment (TIA). The Trip Generation, Location and Safety triggers of the Screening Form were all met based on the checklist provided by the TIA Guidelines. As such, a TIA Report was deemed required. The Screening Form is provided in Appendix A.

### 2.0 SCOPING REPORT

### 2.1. EXISTING AND PLANNED CONDITIONS

### 2.1.1. PROPOSED DEVELOPMENT

The proposed development is located at 1356 Clyde Ave and will consist of two high-rise apartment buildings with a total of 468 residential units, $32,927 \mathrm{ft}^{2}\left(3,059 \mathrm{~m}^{2}\right)$ of office space, and $18,568 \mathrm{ft}^{2}\left(1,725 \mathrm{~m}^{2}\right)$ of ground floor retail. The site is currently occupied by a few small commercial stores, two fast food restaurants and three dental offices, all of which are housed within two separate strip malls. The proposed development buildings will be constructed in two phases. Phase 1 will be constructed by 2022, which consists of a 26 -storey apartment building housing 210 residential units, $14,682 \mathrm{ft}^{2}$ $\left(1,364 \mathrm{~m}^{2}\right)$ of office space, $8,837 \mathrm{ft}^{2}\left(821 \mathrm{~m}^{2}\right)$ of ground floor retail and 217 parking spaces, which will replace the north existing strip mall building. The buildout year of Phase 2 is assumed to be 2026, where the second proposed residential building, consisting of 258 residential units, $18,256 \mathrm{ft}^{2}\left(1,696 \mathrm{~m}^{2}\right)$ of office space, $9,731 \mathrm{ft}^{2}\left(904 \mathrm{~m}^{2}\right)$ of ground floor retail and 256 parking spaces, will replace the south existing strip mall. Note that the three existing site accesses are proposed to serve the future residential buildings. Figure 1 below provides the local context of the development site, while Figure 2 provides the current concept plan. The site is currently zoned as an Arterial Mainstreet (AM) zone.

Figure 1: Local Context


Figure 2: Concept Plan


### 2.1.2. EXISTING CONDITIONS

## Area Road Network

Baseline Road is an east-west municipal arterial roadway that extends from Robertson/Richmond/Hwy 416 SB on-ramp in the west to Prince of Wales Drive in the east, where it continues as Heron Road. Within the study area, Baseline Road has a four-lane cross-section with auxiliary turn lanes at major intersections and a posted speed limit of 60km/h.

Clyde Avenue is a north-south municipal roadway that extends from Merivale/Lotta in the south to approximately 70 m north of Castle Hill Crescent. Within the study area, Clyde Avenue is classified as an arterial roadway and consists of a fourlane cross-section with auxiliary turn lanes at major intersections and a posted speed limit of $60 \mathrm{~km} / \mathrm{h}$.

Erindale Drive is a north-south municipal roadway that extends from Baseline Road in the south to Maitland Avenue in the north. The majority of Erindale Drive is classified as a local roadway, however a short segment between Navaho Drive and Maitland Avenue classified as a collector. The roadway consists of a two-lane cross-section, with lanes wide enough to allow on-street parking on either side of the road and a posted speed limit of $40 \mathrm{~km} / \mathrm{h}$. Additionally, there is no truck signs posted at the intersections of Merivale/Erindale and Baseline/Merivale.

Maitland Avenue is a north-south municipal arterial roadway that extends from Carling Avenue in the north and curves eastward to Clyde Avenue in the south. Within the study area, Maitland Avenue consists of a four-lane roadway with a posted speed limit of $50 \mathrm{~km} / \mathrm{h}$.

## Existing Study Area Intersections

## Baseline/Clyde

The Baseline/Clyde intersection is a four-legged fullmovement signalized intersection. The east and west legs (Baseline) of the intersection consist of two through lanes, one through transit lane, a pocket bike lane, one auxiliary left-turn lane and one channelized auxiliary right-turn lane. The north and south legs (Clyde) consist of one through lane, one shared through/right-turn lane and two auxiliary left-turn lanes. There are no restricted movements at this intersection. However, trucks are not allowed to enter the north leg of the intersection.

## Baseline/Erindale

Baseline/Erindale is a three-legged, full-movement " T "intersection, with stop-control on the minor road. The north leg (Erindale) of the intersection consists of a single shared all movement lane. The west leg (Baseline) of the intersection consists of two through lanes and an auxiliary left-tun lane. The east leg (Baseline) of the intersections consists of one through lane and one shared through/rightturn lane. Trucks are not allowed to enter the north leg of the intersection. Furthermore, U-turns are not permitted from the eastbound left-turn lane and the left-turn is prohibited during morning and afternoon peak hours. A driveway to a private residential property is on the south side of the intersection. However, it is assumed to only be accessed through a right-in/right-out movement.


## Erindale/Glenmount/Maitland

The Erindale/Glemount/Maitland intersection is a fourlegged signalized intersection. While there are two sets of lights at this intersection, the signals operate in coordination and under the same controller. As such, they were assumed to be one intersection. The south (Erindale) and north (Glenmount) legs of the intersection consist of a single shared all movement lane. The east and west legs (Maitland) consist of a share through/right-turn lane and a shared through/left-turn lane. Trucks are not permitted to enter the south leg of the intersection.

## Clyde/Merivale/Lotta

The Clyde/Merivale/Lotta intersection is a four-legged signalized intersection. The north leg (Clyde) of the intersection consists of a through lane, a shared through/right-turn lane and an auxiliary left-turn lane. The south leg (Merivale) consists of two through lanes, an auxiliary left-turn lane and a channelized auxiliary right-turn lane. The east leg (Merivale) consists of two left-turn lanes, a through lane and a channelized right-turn lane. The west leg (Lotta) consists of a shared through/right-turn lane and an auxiliary left-turn lane.

## Clyde/North Access

The Clyde/North Access intersection is a three-legged " T "intersection and one of the accesses to the subject site, with only inbound traffic permitted at the west leg (North Access). The north leg (Clyde) consists of a through lane and a share through/right-turn lane. The south leg (Clyde) consists of two through lanes and an auxiliary left-turn lane. All outbound movements from the west leg are prohibited.


## Clyde/South Access

The Clyde/South Access is an existing right-in/right-out only driveway servicing the site and is located approximately 115 m north of Baseline along the west side of Clyde.

## Baseline/Site Exit

The Baseline/Site Exit intersection is restricted to right-turn out only from the subject site onto Baseline Road, heading westbound.


## Existing Driveways to Adjacent Developments

Major Driveways within 200 m of the existing site are shown in Figure 3 and are listed below:

1. Approximately 200 m north of the site's North Access along Clyde Avenue is a driveway providing access to a parking lot used by residents of townhomes.
2. Approximately 160 m north of the site's North Access along Clyde Avenue is a driveway providing access to a parking lot used by residents of townhomes.
3. Approximately 10 m north of the site's North Access along Clyde Avenue is a driveway providing access to a parking lot used by residents of townhomes.
4. A right-in/right-out access to the Laurentian Place Plaza on the right side of Clyde Avenue, approximately 90 m north of the Baseline/Clyde intersection.
5. A private roadway allows traffic from the residential buildings area immediately west of the subject site to exit the property and access Clyde Avenue via the subject site's South Access.
6. Private Driveway approximately 200 m west of the site along Baseline Road that services a private residential community.

Figure 3: Adjacent Driveways


In addition to the driveways numbered in Figure 3 above, 9 private residential home driveways within 200 m of the site access Maitland Avenue along the north side of the roadway.

## Pedestrian/Cycling Network

Pedestrian sidewalk facilities are provided throughout the study area, with the exception of the west side of Clyde Avenue, north of Maitland Avenue and the east side of Erindale Drive, between Ainsley Drive and Maitland Avenue. With regards to cycling facilities, there are no dedicated bike lanes along roadways within the study area. However, there are pocket bike lanes provided on the east and west legs of the Baseline/Clyde intersection. Furthermore, Baseline Road, Clyde Avenue and Maitland Avenue are all designated as spine routes in the City of Ottawa Transportation Master Plan (TMP).

## Transit Network

The following OC Transpo bus routes currently operate near the proposed development site:

- Route \#50 (Tunney's Pasture <-> Lincoln Fields): identified by OC Transpo as a "Local Route", this route operates on customized routing and schedules, where Tunney's Pasture bound buses do not operate along Clyde Avenue or Baseline Road during the morning peak and Lincoln Fields bound buses do not operate along Clyde Avenue or Baseline Road during the afternoon peak. During its hours of operation, Route \#50 operates at an average rate of every 30 minutes during weekdays. Bus stops nearest to the site are the Clyde/Baseline (northbound and southbound) and Baseline/Clyde (westbound) stops.
- Route \#81 (Tunney's Pasture <-> Clyde): identified by OC Transpo as a "Local Route", this route operates at an average rate of every 30 minutes during weekdays. The bus stop nearest to the site is the Baseline/Clyde (eastbound) stop.
- Route \#88 (Hurdman <-> Terry Fox): identified by OC Transpo as a "Frequent Route", this route operates at a high frequency throughout the day, 7 days a week. Bus stops nearest to the site are the Baseline/Clyde (westbound and eastbound) stops.

OC Transpo route maps for bus routes \#50, \#88 and \#81 have been provided in Appendix B. Figure 4 below illustrates the area transit network surrounding the subject site, while Figure 5 illustrates the bus stop locations as blue dots relative to the development site. Note that the westbound Baseline/Clyde bus stop is directly south of the site while the eastbound
bus stop is east of the Baseline/Clyde intersection. Southbound and northbound Clyde/Baseline bus stops are directly east of the site.


## Peak Hour Travel Demand

Existing peak hour traffic volumes were obtained from the City of Ottawa for the Baseline/Clyde, Baseline/Erindale, Clyde/Merivale/Lotta and Maitland/Erindale intersections, as well as conducted by Parsons at the three existing site accesses. The traffic volumes are illustrated in Figure 6, where southbound traffic volumes have been balanced (to the highest volume) between the site's north and south Clyde accesses and the Baseline/Clyde intersection. The raw traffic count data has been provided in Appendix C.

Figure 6: Existing Peak Hour Traffic Volumes


## Existing Road Safety Conditions

Five-year collision history data (2014-2018, inclusive) was requested and obtained from the City of Ottawa for intersections and road segments within the study area that may be used as an access route to the development site. Upon analyzing the collision data, the total number of collisions observed within the study area was determined to be 287 collisions within the past five-years. Approximately $10 \%$ (31) of the total collisions resulted from a single vehicle losing control and potentially colliding with a non-motorized object. However, the focus of the analysis will be on the remaining 256 collisions that
occurred between two or more vehicles. Both the detailed collision analysis and the data obtained from the City of Ottawa are provided in Appendix D.

Out of the 256 collisions that occurred, 212 ( $83 \%$ ) resulted in property damage only, 44 (17\%) resulted in a non-fatal injury and 1 resulted in a fatal injury due to a motorcycle crash along Baseline Rd, between Clyde Ave and Henry Farm Dr. Furthermore, the impacts that caused these collisions are broken down as follows: 131 (51\%) rear endings, 25 (10\%) turning movements, 57 (22\%) sideswipes, 38 (15\%) angled, 3 (1\%) approaching and 2 (1\%) other. The majority of the collisions occurred at the intersections of Baseline Rd/Clyde Ave (120 collisions) and Maitland Ave/Erindale Dr/Glenmount Ave (40 collisions). Based on the City of Ottawa TIA Guidelines, seven or more collisions of the same type exhibited by an approach or movement at any location within the study area may be identified as a collision pattern. However, with the exception of the two intersections, the remaining collisions recorded within the study area show no particular collision pattern.

A standard unit of measure for assessing collisions at a signalized intersection is based on the number of collisions per million entering vehicles (MEV). Within the study area, reported collisions have historically taken place at a rate of:

- 1.16 Collisions/MEV at the intersection of Baseline Rd/Clyde Ave. Out of the 120 collisions that occurred at this intersection in the past five-years, 76 were rear ends, 12 were turning movements, 20 were sideswipes and 12 were angled collisions. The notable collision patterns consist of 24 northbound rear ends, 11 southbound rear ends, 15 eastbound rear ends, 26 westbound rear ends, 9 westbound sideswipes and 8 westbound angled collisions.
- 0.63 Collisions/MEV at the intersection of Maitland Ave/Erindale Dr/Glenmount Ave. Out of the 40 collisions that have taken place at this intersection in the past five-years, 18 were rear ends, 5 were turning movements, 10 were sideswipes, 6 were angled and 1 was approaching. Two collision patterns are noted at this intersection, as 9 rear end and 8 sideswipe collisions occurred in the southbound movement.
- The intersection of Erindale/Baseline has experienced 11 collisions in total consisting of 2 rear ends and 9 angled collisions. A pattern of 7 angled collisions was observed by the southbound movement.
- Along Baseline Rd, between Erindale and Clyde, a total of 21 collisions have occurred, which include 9 rear ends, 7 sideswipes, 3 angled, 1 other and 1 fatal motorcyclist collisions. Nonetheless, there are no particular collision pattern observed by any movement.
- Along Erindale Dr, between Baseline Rd and Maitland Ave, 6 total collisions have been observed at various locations, with no particular collisions pattern noted.
- Along Maitland Ave, between Erindale and Clyde, a total of 42 collisions have been observed at various locations, including 17 rear ends, 3 turning movements, 15 sideswipes, 5 angled, 1 approaching and 1 other collisions. Two collision patterns are noted, as 12 rear ends and 7 sideswipes occurred in the northbound movement of Maitland Ave.
- Along Clyde Ave, between Maitland and Baseline, a total of 17 collisions have been observed, with 6 rear ends, 4 turning movements, 5 sideswipes and 2 angled collisions. As such, there are no particular collision patterns taking place.


### 2.1.3. PLANNED CONDITIONS

## Planned Study Area Transportation Network Changes

Based on the City of Ottawa's TMP, the 2031 Affordable Network for Rapid Transit and Transit Priority illustrates Baseline Road as a future Bus Rapid Transit (BRT) with at-grade crossings, between Navaho Drive and Airport Parkway. Construction of the BRT is assumed to take place between the Phase 1 (2022) and Phase 2 (2027) full buildout of the proposed development. There are no other anticipated changes to the road network surrounding the subject development's site.

## Other Area Developments

A summary of other area developments is provided below based on the latest available information from the City's development application search tool.

## 1375 Clyde Avenue

A TIA was submitted in June 2017 for a development consisting of a five-storey Dymon Storage facility, a $4,500 \mathrm{ft}^{2}$ restaurant and a $12,000 \mathrm{ft}^{2}$ expansion to an existing retail building. The development was anticipated to reach full buildout by 2020 and is expected to generate a total of 47 and 93 vehicle trips/hour during the morning and afternoon peak hour periods, respectively. The vehicle trips generated by this development will be included in the future background and total projected traffic volumes analysis.

## 1357 Baseline Road

A mixed-use development consisting of 228 senior adult housing units, 174 high-rise apartment units and a $5,500 \mathrm{ft}^{2}$ shopping centre is proposed at 1357 Baseline Rd. The development will be located in the empty lot at the northeast corner of Baseline/Clyde and is anticipated to be constructed in a single phase by 2022. Prior to the construction of the BRT, the development is anticipated to generate approximately 90 and 111 vehicle/h during the morning and afternoon peak hours respectively. Once the BRT is constructed, the development is anticipated to generate 53 and 66 vehicles $/ \mathrm{h}$ during the morning and afternoon peak hours respectively.

### 2.2. STUDY AREA AND TIME PERIODS

Since the proposed development consists of residential buildings, the peak time periods to be assessed are the weekday morning and afternoon peak hour periods. Furthermore, the horizon years to be analyzed are the year of full-buildout of Phase 1 (2022), the year of full-buildout of Phase 2 (2026) and five years after full-buildout (2031), as per the requirements of the TIA Guidelines. The proposed study area is illustrated in Figure 7 below, which identifies the proposed development site and the roadways and intersections that will be assessed in this TIA Report.


The highlighted study area intersections include:

- Baseline Road/Clyde Avenue (Signalized)
- Baseline Road/Erindale Drive (Unsignalized)
- Erindale Drive/Glenmount Ave/Maitland Avenue (Signalized)
- Clyde Avenue/Merivale Road/Lotta Avenue (Signalized)
- Clyde Avenue/North Access (Unsignalized)
- Clyde Avenue/South Access (Unsignalized)
- Baseline Road/Site Exit (Unsignalized)


### 2.3. EXEMPTION REVIEW

Based on the City's TIA guidelines and the subject site, the modules/elements of the TIA process summarized in Table 1 are recommended to be exempt in the subsequent steps of the TIA process:

| Table 1: Exemptions Review Summary |  |  |
| :--- | :--- | :--- |
| Module | Element | Exemption Consideration |
| 4.1-4.4 Design Review <br> Component | All elements | Site design requirements are omitted in a Zoning By-Law Amendment <br> Application. These elements will be explored in detail in the future Site <br> Plan Application (SPA). |
| 4.8 Review of Network <br> Concept | All elements | The site is not expected to generate 200 trips more than the established <br> zoning. Refer to Section 4.8. |

### 3.0 FORECASTING

### 3.1. DEVELOPMENT GENERATED TRAVEL DEMAND

### 3.1.1. TRIP GENERATION AND MODE SHARES

## Existing Site

The number of trips generated in existing conditions are determined using the inbound and outbound traffic volumes of the respective site accesses, during peak hours (see Figure 6). Since the proposed development will be constructed in two phases, with Phase 1 replacing the north strip mall building and Phase 2 replacing the south strip mall building, the existing inbound and outbound traffic counts of the site were split based on the building proportions of the two existing strip malls. As shown in Figure 8, the northmost building is approximately $523 \mathrm{~m}^{2}$ and the south building makes up approximately $1408 \mathrm{~m}^{2}$, where the total building area is approximately $1931 \mathrm{~m}^{2}$.


This equates to approximately $30 \%$ of the existing counted traffic volumes heading to/from the north building and $70 \%$ of the remaining site trips heading to/from the south building. The resulting estimated traffic volumes per building are summarized in Table 2 below.

Table 2: Existing Vehicle Trips

| Land Use | Traffic Percentage | AM Peak (Vehicles/h) |  |  | PM Peak (Vehicles/h) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | In | Out | Total | In | Out | Total |
| North Strip Mall (Future Phase 1) | 30\% | 9 | 14 | 23 | 25 | 32 | 57 |
| South Strip Mall (Future Phase 2) | 70\% | 22 | 32 | 54 | 57 | 74 | 131 |
| Total | 100\% | 31 | 46 | 77 | 82 | 106 | 188 |

## Proposed Development

The proposed development will consist of two high-rise apartment buildings composed of approximately 468 residential units, $32,927 \mathrm{ft}^{2}\left(3,059 \mathrm{~m}^{2}\right)$ of office space and $18,568 \mathrm{ft}^{2}\left(1,725 \mathrm{~m}^{2}\right)$ of retail space. Appropriate trip generation rates for the residential land use were obtained from the 2009 TRANS Trip Generation Residential Trip Rates report, Table 6.3. Retail and office trip rate were obtained from the ITE Trip Generation Manual (10 ${ }^{\text {th }}$ edition). The trip rates have been summarized in Table 3. Note that the retail trip rates provided reflect the average rate rather than a fitted curve equation rate. This was encouraged by the City in comments received post forecasting report submission, as the fitted curve equation provides overly conservative values.

Table 3: Proposed Development Trip Rates

| Land Use | Data | Trip Rates |  |
| :---: | :---: | :---: | :---: |
|  | Source | AM Peak | PM Peak |
| High-Rise Apartments | TRANS | $\mathrm{T}=0.24(\mathrm{du}) ;$ | $\mathrm{T}=0.27(\mathrm{du}) ;$ |
| Retail Space (first floor) | ITE 820 | $\mathrm{T}=0.94(\mathrm{x}) ;$ | $\mathrm{T}=3.81(\mathrm{x}) ;$ |
| Office Space | ITE 710 | $\mathrm{T}=0.94(\mathrm{x})+26.49 ;$ | $\operatorname{Ln}(\mathrm{T})=0.95 \mathrm{Ln}(\mathrm{x})+0.36 ;$ |
| Notes: | $T=$ Average Vehicle Trip Ends <br> du $=$ Dwelling unit <br> $\mathrm{x}=$ Gross Floor Area (GFA) $\left(1000 ~ f \mathrm{ft}^{2}\right)$ |  |  |

The trip rates shown in Table 3 represent vehicle trips-per-hour for the residential land use and person trips-per-hour for the retail and office space use. With regards to the residential land use, Table 4 provides the vehicle trips-per-hour of the apartment units.

Table 4: Apartment Units Vehicle Trip Generation

| Land Use | Dwelling Units | AM Peak (Vehicles/h) |  |  | PM Peak (Vehicles/h) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | In | Out | Total | In | Out | Total |
| High-Rise Apartments (Phase 1) | 210 units | 12 | 38 | 50 | 35 | 22 | 57 |
| High-Rise Apartments (Phase 2) | 258 units | 14 | 48 | 62 | 43 | 27 | 70 |
| Total |  | 26 | 86 | 112 | 78 | 49 | 127 |

Mode share percentages from the 2009 TRANS Trip Generation Study Report are used to convert the total vehicle trips in Table 4 to the total person trips, and subsequently divide the total person trips into the trips/h for each respective mode share. Table 5 and

Table 6 summarize the person trips generated by the Phase 1 and Phase 2 residential land use of the proposed development.

Table 5: Phase 1 Mode Shares

| Travel Mode | Mode Share | AM Peak (Person Trips/h) |  |  | Mode Share | PM Peak (Person Trips/h) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | In | Out | Total |  | In | Out | Total |
| Auto Driver | 37\% | 12 | 38 | 50 | 40\% | 35 | 22 | 57 |
| Auto Passenger | 8\% | 3 | 8 | 11 | 9\% | 9 | 4 | 13 |
| Transit | 41\% | 14 | 42 | 56 | 37\% | 33 | 20 | 53 |
| Non-motorized | 14\% | 5 | 13 | 18 | 14\% | 13 | 7 | 20 |
| Total Person Trips | 100\% | 34 | 101 | 135 | 100\% | 90 | 53 | 143 |

Table 6: Phase 2 Mode Shares

| Travel Mode | Mode Share | AM Peak (Person Trips/h) |  |  | Mode Share | PM Peak (Person Trips/h) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | In | Out | Total |  | In | Out | Total |
| Auto Driver | 37\% | 14 | 48 | 62 | 40\% | 43 | 27 | 70 |
| Auto Passenger | 8\% | 3 | 10 | 13 | 9\% | 10 | 6 | 16 |
| Transit | 41\% | 16 | 53 | 69 | 37\% | 41 | 24 | 65 |
| Non-motorized | 14\% | 5 | 19 | 24 | 14\% | 15 | 9 | 24 |
| Total Person Trips | 100\% | 38 | 130 | 168 | 100\% | 109 | 66 | 175 |

With regards to the office and retail space land uses, the person trips/hour are calculated directly using the trip rates shown in Table 3 and multiplied by a factor of 1.28 , as per TIA standards, to account for typical North American auto occupancy values of approximately 1.15 and combined transit and non-motorized modal shares of less than $10 \%$. The resulting total person trips/hour for the retail and office land uses of Phases 1 and 2 are summarized in Table 7 and Table 8 , respectively.

Table 7: Phase 1 Retail and Office Space Person Trip Generation

| Land Use | Area ( $\mathrm{ft}^{2}$ ) | AM Peak (Person Trips/h) |  |  | PM Peak (Person Trips/h) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | In | Out | Total | In | Out | Total |
| Retail Space (Phase 1) | $8,837 \mathrm{ft}^{2}$ | 6 | 5 | 11 | 20 | 23 | 43 |
| Office Space (Phase 1) | $14,682 \mathrm{ft}^{2}$ | 44 | 8 | 52 | 3 | 21 | 24 |
| Total |  | 50 | 13 | 63 | 23 | 44 | 67 |

Table 8: Phase 2 Retail Space Person Trip Generation

| Land Use | Area ( $\mathrm{ft}^{2}$ ) | AM Peak (Person Trips/h) |  |  | PM Peak (Person Trips/h) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | In | Out | Total | In | Out | Total |
| Retail Space (Phase 2) | 9,731 ft ${ }^{2}$ | 7 | 5 | 12 | 22 | 25 | 47 |
| Office Space (Phase 2) | 18,256 ft ${ }^{2}$ | 48 | 8 | 56 | 4 | 25 | 29 |
|  | Total | 55 | 13 | 68 | 26 | 50 | 76 |

The total person trips of the residential land use can now be combined with the total person trips of the retail and office land use for each of the respective phases. As mode share percentages vary based on the location of the proposed development within the City of Ottawa, new mode share percentages have been obtained from the 2011 NCR Household Origin-Destination Survey for the Merivale District. These mode shares are represented in Table 9 for Phase 1 of the proposed development. For Phase 2, the mode shares in Table 10 were adjusted to provide higher transit and lower auto driver percentages. This is to account for the BRT that was mentioned in Section 2.1.3: Planned Study Area Transportation Network Changes. The person trips in Phase 1 and Phase 2 were then combined as shown in Table 11.

Table 9: Phase 1 OD Survey Travel Mode Person Trips

| Travel Mode | Mode Share | AM Peak (Person Trips/h) |  |  | PM Peak (Person Trips/h) |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | In | Out | Total | In | Out | Total |
| Auto Driver | $55 \%$ | 46 | 65 | 111 | 61 | 55 | 116 |
| Auto Passenger | $15 \%$ | 13 | 18 | 31 | 17 | 15 | 32 |
| Transit | $20 \%$ | 15 | 23 | 38 | 21 | 20 | 41 |
| Bike | $5 \%$ | 4 | 6 | 9 | 6 | 5 | 11 |
| Walk | $5 \%$ | 3 | 5 | 9 | 5 | 5 | 10 |
| Total Person Trips | $100 \%$ | 81 | 117 | 198 | 110 | 100 | 210 |
|  | Total Auto Trips |  | 46 | 65 | 111 | 61 | 55 |

Table 10: Phase 2 OD Survey Travel Mode Person Trips

| Travel Mode | Mode Share | AM Peak (Person Trips/h) |  |  | PM Peak (Person Trips/h) |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | In | Out | Total | In | Out | Total |
| Auto Driver | $35 \%$ | 34 | 50 | 84 | 47 | 42 | 89 |
| Auto Passenger | $15 \%$ | 17 | 22 | 39 | 21 | 18 | 39 |
| Transit | $40 \%$ | 37 | 56 | 93 | 52 | 47 | 99 |
| Bike | $5 \%$ | 4 | 7 | 11 | 7 | 6 | 13 |
| Walk | $5 \%$ | 3 | 6 | 9 | 6 | 5 | 11 |
| Total Person Trips | $100 \%$ | 95 | 141 | 236 | 133 | 118 | 251 | | Total Auto Trips | 34 |
| ---: | :--- |

Table 11: Total Travel Mode Person Trips of Proposed Development

| Travel Mode | AM Peak (Person Trips/h) |  |  | PM Peak (Person Trips/h) |  |  |
| ---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total |
| Auto Driver | 80 | 115 | 195 | 108 | 97 | 205 |
| Auto Passenger | 30 | 40 | 70 | 38 | 33 | 71 |
| Transit | 52 | 79 | 131 | 73 | 67 | 140 |
| Bike | 8 | 13 | 20 | 13 | 11 | 24 |
| Walk | 6 | 11 | 18 | 11 | 10 | 21 |
| Total Person Trips | 176 | 258 | 434 | 243 | 218 | 461 |
| Total Auto Trips | 80 | 115 | 195 | 108 | 97 | 205 |

The auto trips expected to be generated by Phase 1 of the future residential development are 111 and 116 vehicles $/ \mathrm{h}$, while Phase 2 is expected to generate 84 and 89 vehicles/h during the morning and afternoon peak hour periods, respectively. As such, the total number of vehicle trips expected to be generated by the proposed development are 195 and 205 vehicles/h during the morning and afternoon peak hour periods.

## Estimated Net Difference in Trips Generated

The anticipated net difference between the proposed development's vehicle trips (Table 9 and Table 10) and the existing site's vehicle trips (Table 2) is summarized in Table 12.

Table 12: Anticipated 'New' Vehicle Trips

| Development Phase | AM Peak (Vehicles/h) |  |  | PM Peak (Vehicles/h) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | In | Out | Total | In | Out | Total |
| Phase 1 | 37 | 51 | 88 | 36 | 23 | 59 |
| Phase 2 | 12 | 18 | 30 | -10 | -32 | -42 |
| Total | 49 | 69 | 118 | $\mathbf{2 6}$ | -9 | $\mathbf{1 7}$ |

As shown in Table 12 above, Phase 1 shows a net increase of 88 and 59 vehicle/h during the morning and afternoon peak hours. On the other hand, Phase 2 results in a net increase of 30 vehicles $/ \mathrm{h}$ and a net decrease of 42 vehicles $/ \mathrm{h}$ during the morning and afternoon peak hours. In total, the two phases generate 118 and 17 vehicles/h during the morning and afternoon peak hours.

### 3.1.2. TRIP DISTRIBUTION AND ASSIGNMENT

Based on the 2011 OD Survey (Merivale district) and the location of adjacent arterial roadways and neighbourhoods, the distribution of site-generated traffic volumes was estimated as follows:

- $25 \%$ to/from the north;
- $15 \%$ to/from the south;
- $40 \%$ to/from the east; and,
- $20 \%$ to/from the west.

Phase 1 anticipated site-generated traffic volumes are illustrated in Figure 9, while Phase 2 total anticipated site-generated traffic volumes are illustrated in Figure 10. Note that in Phase 1, inbound right-turning traffic were all assumed to access the north building via the north access, while in Phase 2, the right-turning traffic were split between the north and south development accesses. On the other hand, the outbound vehicles were assumed to exit the site via the north access in Phase 1 and via the north, south and "site exit" accesses in Phase 2.

Furthermore, the inbound and outbound traffic volumes at site accesses reflect the actual traffic volumes that were anticipated to be generated by the proposed development in Table 9 and Table 11.

Figure 9: Phase 1 Site-Generated Traffic Volumes


Figure 10: Phase 2 Total Site-Generated Traffic Volumes


### 3.2. BACKGROUND NETWORK TRAFFIC

### 3.2.1. TRANSPORTATION NETWORK PLANS

Refer to Section 2.1.3: Planned Study Area Transportation Network Changes. A Planning and Environmental Assessment Study was initiated by the City of Ottawa in 2017 for the Baseline Road Rapid Transit Corridor. The plan is to provide dedicated bus-only lanes, generally within the median of Baseline Road, between Bayshore Station and Heron Station. The timeline of this project is currently uncertain. However, for the sake of this report, it was assumed that modifications along Baseline Rd, within the study area, will take place between the Phase 1 (2022) and Phase 2 (2026) buildout of the proposed development.

### 3.2.2. BACKGROUND GROWTH

Regression analysis was conducted at the intersection of Baseline/Clyde using three previous traffic counts (2014, 2016, 2019), in order to determine the average annual change in traffic. The analysis was conducted using three different time periods of 8-hour, AM peak hour and PM peak hour traffic volumes and the results are summarized in Table 13 below.

Table 13: Background Traffic Growth at Baseline/Clyde

| Time Period | North Leg | South Leg | East Leg | West Leg | Overall |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | $-3.80 \%$ | $-3.37 \%$ | $-5.77 \%$ | $-3.21 \%$ | $-4.11 \%$ |
| 8 hrs | $-2.16 \%$ | $0.23 \%$ | $-4.50 \%$ | $-0.45 \%$ | $-1.94 \%$ |
| AM Peak | $-4.14 \%$ | $-2.85 \%$ | $-8.33 \%$ | $-6.20 \%$ | $-5.60 \%$ |
| PM Peak |  |  |  |  |  |

As shown in Table 13, traffic growth along all legs of the Baseline/Clyde intersection has been mostly declining. As such, it is reasonable to assume that traffic growth within the study area will not be increasing in the future. A background growth of $0 \%$ is applied at study area intersections. The detailed traffic growth analysis sheet is provided in Appendix E .

### 3.2.3. OTHER DEVELOPMENTS

Description of other area developments taking place within the study area was provided in Section 2.1.3-Other Area Developments. The site-generated traffic volume figures of the other area developments were taken from their respective TIA reports. Figure 11 illustrates the site-generated traffic of 1375 Clyde Ave, while Figure 12 and Figure 13 illustrate the site-generate traffic of 1357 Baseline Rd, before and after the BRT along Baseline Rd is constructed.

Figure 11: 1375 Clyde Ave Development Traffic


Figure 12: 1357 Baseline Rd Development Traffic - Without BRT


Figure 13: 1357 Baseline Rd Development Traffic - With BRT



The above site-generated traffic volumes of adjacent developments can then be added to the existing traffic volumes (in Figure 6), with respect to each phase, to determine the future background 2022 and future background 2026 traffic volumes. As mentioned in Section 3.2.2, the background traffic growth was assumed to be 0\% per year. The background traffic may even begin to decline once the BRT is constructed. However, for conservative purposes, the background growth was kept as 0\%. Figure 14 and Figure 15 illustrate the future background traffic volumes for horizon years 2022 and 2026. Horizon year 2031 is anticipated to have the same traffic volumes as 2026, since there is no anticipated change in the background traffic growth.

Figure 14: Phase 1 Future Background Traffic Volumes (2022)


Figure 15: Phase 2 Future Background Traffic Volumes (2026)


### 3.3. DEMAND RATIONALIZATION

Analysis of the study area intersections will be conducted in the subsequent Strategy Section and will take into account the planned BRT along Baseline Rd within the appropriate horizon years.

The total projected 2022 traffic volumes are illustrated in Figure 16 below, where the volumes were derived by superimposing the site-generated traffic volumes projected for Phase 1 (Figure 9) onto the future background 2022 traffic volumes (Figure 14).

Figure 16: Total Projected 2022 Traffic Volumes


Similarly, the total projected 2026 traffic volumes are illustrated in Figure 17 below, where the volumes were derived by superimposing the site-generated traffic volumes projected for Phase 2 (Figure 10) onto the future background 2026 traffic volumes (Figure 15).

Figure 17: Total Projected 2026 Traffic Volumes


### 4.0 ANALYSIS

### 4.1. DEVELOPMENT DESIGN

As this TIA Report is in support of a Zoning By-Law Amendment application, design related elements are not being discussed. However, they will be included in the future Site Plan Application submission. The City of Ottawa's TDMsupportive Development Design and Infrastructure will also be provided in the future submission.

Car parking spaces are proposed to be located in a three-level underground parking garage and surface parking spaces located along the internal driveways of the site (see
Figure 2). Furthermore, all bicycle parking spaces are provided within the underground parking garage.

With regards to transit, it is assumed that transit will continue to operate within the study area as described in Section 2.1.2: Transit Network. As previously mentioned, the Baseline Rd BRT will be constructed sometime between Horizon Years 2022 and 2026, which will likely significantly reduce transit travel times and potentially increase the number of buses along this route.

As shown in the Site Plan (
Figure 2), a loading space is illustrated on the west side of the proposed south building. Heavy vehicles are not anticipated to have any issues accessing the loading space as they can enter the site through the south access on Clyde Ave and exit through the site exit on Baseline Rd.

### 4.2. PARKING

A total of 473 parking spaces are proposed to be provided. For Phase 1, 192 spaces are provided in the underground parking garage and 25 outdoors. For Phase 2, 234 spaces are provided in the underground parking garage and 22 outdoors.

With regards to bicycle parking spaces, a total of 300 spaces are proposed to be provided in the underground parking garage. This includes 143 spaces for Phase 1 and 157 spaces for Phase 2.

### 4.3. BOUNDARY STREET DESIGN

The Multi-Modal Level of Service (MMLOS) analysis of boundary streets and signalized intersections will be provided in the future Site Plan Application.

### 4.4. ACCESS INTERSECTION DESIGN

As mentioned previously, the three existing accesses are anticipated to be used by the proposed development. The north access along Clyde Ave is anticipated to permit in/out movements with the exception of the outbound westbound left-turn which will remain prohibited. The south access on Clyde Ave will continue to permit right-in/right-out movements. The site exit on Baseline Rd will continue to permit outbound right-turns only. Access design will be further explored in the future Site Plan Application.

### 4.5. TRANSPORTATION DEMAND MANAGEMENT

The TDM Measures Checklist has been provided in Appendix F.

### 4.6. NEIGHBOURHOOD TRAFFIC MANAGEMENT

Site-generated traffic of the proposed development is expected to rely primarily on arterial roads such as Baseline Rd, Maitland Ave and Clyde Ave to access the development site. However, due to the limited inbound left-turn maneuverability of the site-accesses, traffic may utilize Erindale Dr to access the site via an inbound right-turn. Based on the City of Ottawa TMP, the majority of Erindale Dr is classified as a local road, with a small section between Navaho Dr and Erindale Dr classified as a collector road. As such, the future traffic volumes of Erindale Dr need to be compared to the thresholds provided in the TIA Guidelines for local and collector roads.

Within the local section of Erindale Rd, the future traffic volumes are illustrated by the total projected 2022 and 2026 volumes in Figure 16 and Figure 17. Based on the TIA Guidelines, the one-way peak direction threshold of local roads is 120 vehicles during the peak hour. The southbound movement traffic volume at the intersection of Baseline/Erindale is approximately 101 vehicles during the afternoon peak hour, which does not exceed the 120 -vehicle threshold.

With regards to the collector section of Erindale Rd, the highest traffic volumes are observed at the northbound movement of the intersection of Erindale/Maitland, with approximately 330 vehicles during the morning peak hour. The TIA Guidelines indicate that the one-way peak direction threshold of collector roads is 300 vehicles during the peak hour. As such, the traffic volume of the northbound movement is anticipated to exceed the threshold by approximately 30 vehicles during the morning peak hour. The majority of the traffic is assumed to have arrived from Navaho Dr, which warranted this section to be classified as a collector road. However, an excess of 30 vehicles, which would equate to approximately 1 more vehicle every 2 minutes during the morning peak hour, does not seem significant enough to change the classification or make adjustments to this section of Erindale Dr.

### 4.7. TRANSIT

It is assumed that transit will continue to operate within the study area as described in Section 2.1.2: Transit Network. The construction of the Baseline BRT sometime between 2022 and 2026 is expected to significantly reduce transit travel times and potentially increase the number of buses along this route.

### 4.8. REVIEW OF NETWORK CONCEPT

Based on the City of Ottawa's zoning information, the site is currently zoned as AM1 $\mathrm{H}(9)$, which permits a maximum building height of " 30 meters but in no case greater than nine storeys". This means that, for this section to be exempted, the total number of proposed dwelling units above nine storeys for both proposed buildings should not exceed 200 person trips. The total number of dwelling units currently proposed are 468 units. Above nine storeys, the number of dwelling units proposed is 291 units.

The average trip rates of a high-rise building (see Table 3) are 0.24 and 0.27 during the morning and afternoon peak hours respectively. Multiplied by 291 units, this equates to approximately 70 and 79 veh/h during the morning and afternoon peak hours. Based on the 2009 TRANS Report mode shares, $37 \%$ of mode shares are auto driver during the morning peak hour, while $40 \%$ are auto drivers during the afternoon peak hour. Dividing the veh/h by their respective mode shares, the resulting person trips/hour are approximately 189 and 198 during the morning and afternoon peak hours, respectively. Therefore, the proposed development rezoning is not anticipated to exceed the existing zoning by 200 or more person trips.

### 4.9. INTERSECTION DESIGN <br> 4.9.1. INTERSECTION CONTROL

The three site accesses are anticipated to continue using STOP control for vehicles existing the site, which is anticipated to be sufficient given the limited maneuverability of inbound/outbound vehicles and the low traffic volumes.

### 4.9.2. INTERSECTION DESIGN

Synchro 10 Trafficware was used to analyze intersection performance of intersections within the study area. Critical movements at each of the intersections were assessed based on either the movement with the highest volume-to-capacity ratio (for signalized intersections), or the movement experiencing the highest average delay (for unsignalized intersections). All Synchro report outputs for existing and future conditions have been provided in Appendix G.

It should be noted that, as per the TIA Guidelines, the Peak Hour Factor (PHF) used for analysis was 0.9 in existing conditions and 1.0 in all future scenario conditions. Furthermore, since there is no anticipated background growth, the 2031 horizon year traffic volumes are expected to be the same as 2026.

## Existing Conditions

Table 14 below summarizes the intersection performance of study area intersections, based on existing conditions traffic volumes illustrated in Figure 6.

Table 14: Existing Conditions Intersection Performance

| Intersection | Weekday AM Peak (PM Peak) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Critical Movement |  |  | Intersection 'As a Whole' |  |  |
|  | LOS | max. v/c or avg. delay <br> (s) | Movement | Delay (s) | LOS | v/c |
| Clyde Ave/Baseline Rd (S) | F(F) | 1.19(1.16) | EBL(EBL) | 66.9(78.5) | D(F) | 0.89(1.10) |
| Merivale Rd/Lotta Ave \& Clyde Ave (S) | C(E) | 0.77(0.95) | WBL(WBL) | 21.7(44.1) | B(D) | 0.67(0.82) |
| Erindale Dr/Maitland Ave (S) | C(A) | 0.79(0.54) | NBL(WBT) | 25.8(5.5) | B(A) | 0.67(0.53) |
| Maitland Ave/Glenmount Ave (S) | A(B) | 0.59(0.64) | SBL(EBT) | 13.9(5.9) | A(B) | 0.42(0.62) |
| Baseline Rd/Erindale Dr (U) | C(F) | 24.2(325.1) | SB(SB) | 0.9(11.3) | - | - |
| Clyde Ave/North Access (U) | B(B) | 10.3(11.0) | NBL(NBL) | 0.1(0.2) | - | - |
| Clyde Ave/South Access (U) | B(B) | 12.5(13.4) | EB(EB) | 0.2(0.4) | - | - |
| Baseline/Site Exit (U) | A(B) | 8.8(10.3) | SB(SB) | 0.0(0.1) | - | - |

Note: Analysis of signalized intersections assumes a PHF of 0.9 and a saturation flow rate of 1800 veh/h/lane.
(S) - Signalized intersection
(U) - Unsignalized intersection

As shown in Table 14, the intersection of Clyde/Baseline 'as a whole' operates at capacity during the afternoon peak hour. With regards to critical movements, the intersection of Clyde/Baseline operates at capacity during both peak hours and the intersection of Baseline/Erindale operates at capacity during the afternoon peak hour.

## Future Background 2022

Table 15 below summarizes the intersection performance of study area intersections, based on future background 2022 traffic volumes illustrated in Figure 14.

Table 15: Future Background 2022 Intersection Performance

| Intersection | Weekday AM Peak (PM Peak) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Critical Movement |  |  | Intersection 'As a Whole' |  |  |
|  | LOS | max. v/c or avg. delay (s) | Movement | Delay (s) | LOS | v/c |
| Clyde Ave/Baseline Rd (S) | F(F) | 1.04(1.10) | EBT(SBL) | 57.7(65.7) | $\mathrm{E}(\mathrm{F})$ | 0.97(1.02) |
| Merivale Rd/Lotta Ave \& Clyde Ave (S) | C(D) | 0.75(0.90) | WBL(WBL) | 20.5(40.2) | B(C) | 0.63(0.78) |
| Erindale Dr/Maitland Ave (S) | C(A) | 0.77(0.50) | NBL(WBT) | 24.1(5.0) | B(A) | 0.61(0.49) |
| Maitland Ave/Glenmount Ave (S) | A(A) | 0.54(0.56) | SBL(EBT) | 13.1(5.0) | A(A) | 0.38(0.55) |
| Baseline Rd/Erindale Dr (U) | C(F) | 19.6(139.7) | SB(SB) | 0.8(4.8) | - | - |
| Clyde Ave/North Access (U) | A(B) | 9.9(10.5) | NBL(NBL) | 0.1(0.2) | - | - |
| Clyde Ave/South Access (U) | $\mathrm{B}(\mathrm{B})$ | 11.9(12.8) | EB(EB) | 0.2(0.4) | - | - |
| Baseline Rd/Site Exit (U) | A(B) | 8.8(10.2) | SB(SB) | 0.0(0.1) | - | - |

Note: Analysis of signalized intersections assumes a PHF of 1.0 and a saturation flow rate of 1800 veh/h/lane.
(S) - Signalized intersection
(U) - Unsignalized intersection

As shown in Table 15, study area intersections are anticipated to operate better than existing conditions, due to increasing the PHF to 1.0. However, Clyde/Baseline and Erindale/Baseline intersections are projected to operate at capacityduring the morning and afternoon peak hours, similar to existing conditions.

## Future Background 2026

Table 16 below summarizes the intersection performance of study area intersections, based on future background 2026 traffic volumes illustrated in Figure 15.

Table 16: Future Background 2026 Intersection Performance

| Intersection | Weekday AM Peak (PM Peak) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Critical Movement |  |  | Intersection 'As a Whole' |  |  |
|  | LOS | max. $\mathrm{v} / \mathrm{c}$ or avg. delay <br> (s) | Movement | Delay (s) | LOS | v/c |
| Clyde Ave/Baseline Rd (S) | F(F) | 1.01(1.07) | EBL(SBL) | 52.1(64.0) | D(F) | 0.82(1.02) |
| Merivale Rd/Lotta Ave \& Clyde Ave (S) | C(D) | 0.75(0.90) | WBL(WBL) | 20.5(40.1) | B(C) | 0.63(0.74) |
| Erindale Dr/Maitland Ave (S) | C(A) | $0.77(0.50)$ | NBL(WBT) | 24.2(5.0) | B(A) | 0.61(0.49) |
| Maitland Ave/Glenmount Ave (S) | A(A) | 0.54(0.55) | SBL(EBT) | 13.1(5.0) | A(A) | 0.38(0.54) |
| Baseline Rd/Erindale Dr (U) | C(F) | 19.5(138.8) | SB(SB) | 0.8(4.8) | - | - |
| Clyde Ave/North Access (U) | A(B) | 9.9(10.5) | NBL(NBL) | 0.1(0.2) | - | - |
| Clyde Ave/South Access (U) | B(B) | 11.9(12.7) | EB(EB) | 0.2(0.4) | - | - |
| Baseline/Site Exit (U) | A(B) | 8.8(10.2) | SB(SB) | 0.0(0.1) |  |  |
| Note: Analysis of signalized intersections assumes a PHF of 1.0 and a saturation flow rate of $1800 \mathrm{veh} / \mathrm{h} /$ lane. <br> (S) - Signalized intersection <br> (U) - Unsignalized intersection |  |  |  |  |  |  |

As there is no background growth applied and due to the reduced volumes of other area developments (Sections 3.2.2 and 3.2.3), study area intersections are anticipated to operate similar or slightly better than future background 2022 conditions. As with existing conditions, the intersection of Clyde/Baseline 'as a whole' operates at capacity during the afternoon peak hour, with the critical movements operating at capacity during both peak hours. The critical movement at intersection of Baseline/Erindale also continues to operate at capacity during the afternoon peak hour.

Total Projected 2022
Table 17 below summarizes the intersection performance of study area intersections, based on the total projected 2022 traffic volumes illustrated in Figure 16.

Table 17: Total Projected 2022 Intersection Performance

| Intersection | Weekday AM Peak (PM Peak) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Critical Movement |  |  | Intersection 'As a Whole' |  |  |
|  | LOS | max. v/c or avg. delay (s) | Movement | Delay (s) | LOS | v/c |
| Clyde Ave/Baseline Rd (S) | E(F) | 0.97(1.05) | EBL(NBT) | 53.1(67.3) | $\mathrm{E}(\mathrm{F})$ | 0.95(1.04) |
| Merivale Rd/Lotta Ave \& Clyde Ave (S) | C(D) | 0.75(0.90) | WBL(WBL) | 20.5(40.2) | B(C) | 0.63(0.75) |
| Erindale Dr/Maitland Ave (S) | C(A) | 0.78(0.51) | NBL(WBT) | 25.4(5.4) | B(A) | 0.62(0.50) |
| Maitland Ave/Glenmount Ave (S) | A(A) | 0.54(0.57) | SBL(EBT) | 13.0(5.1) | A(A) | 0.39(0.56) |
| Baseline Rd/Erindale Dr (U) | C (F) | 20.3(151.5) | SB(SB) | 0.8(5.2) | - | - |
| Clyde Ave/North Access (U) | $\mathrm{B}(\mathrm{B})$ | 12.5(12.7) | EB(EB) | 0.5(0.4) | - | - |
| Clyde Ave/South Access (U) | B(B) | 12.2(13.0) | EB(EB) | 0.2(0.4) | - | - |
| Baseline/Site Exit (U) | A(B) | 8.8(10.2) | SB(SB) | 0.0(0.1) | - | - |
| Note: Analysis of signalized intersections assumes a PHF of 1.0 and a saturation flow rate of $1800 \mathrm{veh} / \mathrm{h} / \mathrm{lane}$. <br> (S) - Signalized intersection <br> (U) - Unsignalized intersection |  |  |  |  |  |  |

As shown in Table 17, there are slightly higher delays and $\mathrm{v} / \mathrm{c}$ ratios experienced by the study area intersections, compared to future background 2022 conditions. However, phase splits were optimized for the intersection of Clyde/Baseline during both peak hours, which reduces the critical movement operations during the morning peak hour to below capacity. The afternoon critical movement still operates at capacity, with a lower v/c ratio. Similarly, the intersection 'as a whole' continues to operate at capacity during the afternoon peak hour, with a lower v/c ratio.

With regards to the site accesses, they are anticipated to operate at a LOS ‘B’ or better during the morning and afternoon peak hour.

## Total Projected 2026

Table 18 below summarizes the intersection performance of study area intersections, based on the total projected 2026 traffic volumes illustrated in Figure 17.

Table 18: Total Projected 2026 Intersection Performance

| Intersection | Weekday AM Peak (PM Peak) |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Critical Movement |  |  | Intersection 'As a Whole' |  |  |
|  | LOS | max. v/c or avg. delay <br> (s) | Movement | Delay (s) | LOS | v/c |
| Clyde Ave/Baseline Rd (S) | E(F) | 0.97(1.04) | EBL(NBT) | 52.4(65.2) | E(F) | 0.94(1.02) |
| Merivale Rd/Lotta Ave \& Clyde Ave (S) | C(D) | 0.75(0.90) | WBL(WBL) | 20.5(40.9) | B(C) | 0.63(0.78) |
| Erindale Dr/Maitland Ave (S) | C(A) | 0.79(0.50) | NBL(WBT) | 25.8(5.0) | B(A) | 0.63(0.49) |
| Maitland Ave/Glenmount Ave (S) | A(A) | 0.54(0.56) | SBL(EBT) | 13.1(5.1) | A(A) | 0.39(0.55) |
| Baseline Rd/Erindale Dr (U) | C(F) | 20.5(143.0) | SB(SB) | 0.8(5.0) | - | - |
| Clyde Ave/North Access (U) | B(B) | 12.0(12.1) | EB(EB) | 0.4(0.4) | - | - |
| Clyde Ave/South Access (U) | B(B) | 12.1(12.2) | EB(EB) | 0.2(0.2) | - | - |
| Baseline/Site Exit (U) | A(B) | 8.9(10.2) | SB(SB) | 0.2(0.1) | - | - |

Note: Analysis of signalized intersections assumes a PHF of 1.0 and a saturation flow rate of 1800 veh/h/lane.
(S) - Signalized intersection
(U) - Unsignalized intersection

As shown in Table 18, traffic operations are anticipated to be similar to the total projected 2022 conditions, with slightly lower v/c ratios and delays. This is due to the difference in the vehicle modal share targets for Phase 2, which anticipates a lower percentage of auto drivers due to the operations of the Baseline BRT.

The site accesses are anticipated to continue to operate at a LOS 'B' or better during the morning and afternoon peak hours.

### 5.0 FINDINGS, CONCLUSIONS AND RECOMMENDATIONS

Based on the results summarized herein, the following transportation related conclusions are offered:

## Proposed Development

- The proposed development will consist of two high-rise mixed-use residential buildings, which will be constructed in two phases.
- The development is proposed to replace the existing developments at 1356 Clyde.
- Phase 1 consists of a 26 -storey building containing 210 apartment units, $14,682 \mathrm{ft}^{2}\left(1,364 \mathrm{~m}^{2}\right)$ of office space and $8,837 \mathrm{ft}^{2}\left(821 \mathrm{~m}^{2}\right)$ commercial space, which will be constructed by 2022.
- Phase 2 consists of a 28 -storey building containing 258 apartment units, $18,256 \mathrm{ft}^{2}\left(1,696 \mathrm{~m}^{2}\right)$ of office space, $9,731 \mathrm{ft}^{2}\left(904 \mathrm{~m}^{2}\right)$ commercial space, which will be constructed by 2026.
- The three existing accesses are proposed to serve the future development site. Two accesses are located along Clyde Ave and one access is located along Baseline Rd. The north site access on Clyde Ave currently permits inbound traffic only but is anticipated to permit right-turn outbound traffic as well in the future. The south access on Clyde Ave will continue to permit right-in/right-out traffic, while the Baseline Rd access will continue to permit outbound traffic only.
- A total of 473 vehicle parking spaces are proposed, with 47 located outdoors and 426 located in the underground parking garage. 300 bicycle parking spaces are also proposed to be provided within the underground parking lot.
- The development is anticipated to generate 88 and 59 'new' vehicles/hour in Phase 1 during the morning and afternoon peak hours, respectively. In Phase 2, the development is anticipated to generate 118 and 17 'new' vehicles/hour during the morning and afternoon peak hours, respectively.


## Existing and Background Conditions

- In existing conditions, Synchro analysis of the study area intersections has indicated the following:
o Critical movements at the intersection of Clyde/Baseline operate at capacity during both the morning and afternoon peak hours, respectively. The intersection 'as a whole' operates at capacity during the afternoon peak hour.
o The critical movement at the intersection of Baseline/Erindale operates at capacity during the afternoon peak hour.
o Other study area intersection operates satisfactorily.
- A background growth rate was not applied within the study area, as traffic growth has been mostly declining at the intersection of Clyde/Baseline.
- The Synchro operational analysis of future background 2022 and 2026 conditions has indicated the following:
o Traffic operations that are similar to, or better than, existing conditions due to increasing the PHF to 1.0, as per the requirements of the TIA Guidelines.
o In future background 2026 conditions, the operations are slightly better than future background 2022 conditions as there is no background growth and other area developments anticipate lower future traffic volumes.


## Projected Conditions

- A Bus Rapid Transit (BRT) is anticipated to be constructed along the median of Baseline Rd. The construction date was assumed to be sometime between horizon years 2022 and 2026 . As such, mode share percentages for auto drivers were reduced for horizon year 2026, while transit mode share was increased.
- To access the development site, traffic may utilize Erindale Dr, which is mostly classified as a local road, with a small section classified as collector road. The total projected volumes along Erindale Dr indicate that the volumes do not exceed the 120 veh/h threshold along the local sections. However, the collector section volumes exceeds the 300 veh/h threshold by approximately 30 vehicles. Due to the short length of the collector segment and the minor difference in traffic, changing the classification of the segment does not seem necessary.
- In total projected 2022 conditions, traffic operations are similar to future background 2022 conditions. However, the intersection of Clyde/Baseline was optimized in phase splits, which reduces the volume-tocapacity ratio of the critical movement to below capacity during the morning peak hour.
- In total projected 2026 conditions, traffic operations are the same as, or slightly better than the operations in total projected 2022 conditions. This is due to the anticipated reduced auto trips once the Baseline BRT is constructed.
- The three site accesses were analyzed with STOP Control at the minor movements and all were projected to operate at a LOS ' B ' or better during the morning and afternoon peak hours of all the horizon years.
- MMLOS analysis for signalized intersections and boundary streets within the study area will be provided in the future Site Plan Application.

Based on the foregoing, the proposed development causes a slight impact to the performance of the nearby study area intersections and is recommended to proceed from a transportation perspective.

Prepared By:
Reviewed By:

Basel Ansari, EIT.
Transportation Planner

Matthew Mantle, P.Eng.
Senior Transportation Engineer

## APPENDIX A

SCREENING FORM AND CITY COMMENT RESPONSES

City of Ottawa 2017 TIA Guidelines
TIA Screening Form

Date
Project
Project Number

| Yes/No |
| :--- |
| Yes |
| Yes |
| Yes |

Module 1.1 - Description of Proposed Development

| Municipal Address | 1356 Clyde Avenue |
| :--- | :--- |
| Description of location | Northwest corner of Clyde/Baseline intersection |
| Land Use | Apartments |
| Development Size | 556 Units (two 26 storey buildings) |
| Number of Accesses and Locations | The three existing accesses are proposed to serve the future residential <br> developments. |
| Development Phasing Two phases <br> Buildout Year 2022 (Phase 1) and 2026 (Phase 2) <br> Sketch Plan / Site Plan See attached |  |

Module 1.2-Trip Generation Trigger
Land Use Type
Development Size
Trip Generation Trigger Met?

Townhomes or Apartments
556 Units

Yes

## Module 1.3 - Location Triggers

Development Proposes a new driveway to a boundary street
that is designated as part of the City's Transit Priority, Rapid
Yes
Transit, or Spine Bicycle Networks (See Sheet 3)
Development is in a Design Priority Area (DPA) or Transit-
oriented Development (TOD) zone. (See Sheet 3)
Location Trigger Met? Yes

| Module 1.4 - Safety Triggers |  |  |
| :--- | :--- | :--- |
| Posted Speed Limit on any boundary road <br> Horizontal / Vertical Curvature on a boundary street limits <br> sight lines at a proposed driveway | $<80$ | $\mathrm{~km} / \mathrm{h}$ |
| A proposed driveway is within the area of influence of an <br> adjacent traffic signal or roundabout (i.e. within 300 m of <br> intersection in rural conditions, or within 150 m of <br> intersection in urban/ suburban conditions) or within auxiliary <br> lanes of an intersection; | Yes |  |
| A proposed driveway makes use of an existing median break <br> that serves an existing site <br> There is a documented history of traffic operations or safety <br> concerns on the boundary streets within 500 m of the <br> development | Yes | Yes |
| The development includes a drive-thru facility <br> Safety Trigger Met? | No |  |

Responses can be found in green following the comments below.
Please review the following comments;

| Project No.: 477420-01000 | Project Address: 1356 Clyde Ave |
| :--- | :--- |
| Applicant/Consultants/Developer: Parsons | Ward/Councillor: $6 /$ Rick Chiarelli |

Forecasting Comments:

## Transportation Engineering Services:

- Confirm that the number of trips generated does not exceed 200 person trips for the existing zoning. Otherwise, include the Review of Network Concept module in the strategy report.

Confirmed. Refer to Section 4.8 in the Strategy Report.

- Correct section 3.1 - Proposed Development: Office space is listed twice.

Report updated.

- Correct the retail trip generation. Given the small size of the retail land uses, using the average rate of the shopping centre is encouraged as the fitted curve is overly conservative.

The trip generation has been with the average rate of shopping centre.

- Correct Figures 9 and 10. Operational analysis of the accesses must consider all development traffic, not only the new trips.

Figures have been updated. The operational analysis considers all development traffic.

- Reassign the background traffic exiting through the Baseline Road access if that access is to be closed after the development is complete.

Latest site plan shows that Baseline Road access will remain open.

- Complete the demand rationalization module. Mode shares may require adjustment to meet intersection capacity. The combination of development-generated and background traffic volumes at study area intersections at all horizon times are required in order to identify any potential operational concerns.

Total projected traffic volume figures are now provided in the demand rationalization module.

## Traffic Signal Operations:

- Figures 6, 14 and 15: verify turning movement volumes for Maitland Avenue and Erindale Drive intersection. There seems to be an error where Erindale Drive has the higher turning volumes.

The volume figures have been updated to show correct volumes at Maitland/Erindale.

- Auxiliary lane analysis will be required to ensure storage lanes are adequate in length.

With regards to the southbound right-turns at the two Clyde Ave site accesses, the TAC Guideline for Right-Turn Designs (Section 9.15.5) states that a right-turn lane would be required if the volumes exceed 60 vehicles per hour. However, as shown in the total projected volumes Figures 16 and 17, the southbound right-turn volumes do not exceed that threshold.

With regards to the northbound left-turns at the north Clyde Ave access, Equation 9.14.1 from the TAC Guidelines was used in coordination with the total projected northbound leftturn traffic volumes in Figures 16 and 17. Based on the calculation, the required storage length is approximately 10 m . The existing auxiliary lane provides approximately 30 m of storage length.

At study area intersections, the $95^{\text {th }}$ percentile queue length in Synchro indicates that the westbound right-turn traffic volumes at the intersection of Clyde/Baseline exceed the available storage length both in existing and future conditions.

## APPENDIX B

TRANSIT ROUTE MAPS

## 50

## LINCOLN FIELDS

## Monday to Saturday / Lundi au samedi

No service Sat. eve. or all day Sunday / Aucun service le soir le sam. ou toute la journée dimanche


| IIIIIIIIIII | Transitway \& Station <br> Peak Periods only $/$ <br> Périodes de pointe seulement |
| :---: | :--- |
| $\Delta$ | Timepoint / Heures de passage |

Schedule / Horaire 613-560-1000Text / Texto560560
plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres
Customer Service
Service à la clientèle ..... 613-842-3600
 ..... 613-563-4011
Security / Sécurité ..... 613-741-2478

Effective April 24, 2017
En vigueur 24 avril 2017
INFO 613-741-4390 octranspo.com

## CLYDE

## TUNNEY'S PASTURE

Local
7 days a week / 7 jours par semaine
No service in the evening on weekends Aucun service le soir les fins de semaine


Future route after 0 -Train Line 1 is open
Trajet du circuit après l'ouverture de la Ligne 1 de lo-Train

Lost and Found / Objets perdus
Security / Sécurité

## 0

## HURDMAN

TERRY FOX

## Fréquent

## 7 days a week / 7 jours par semaine

All day service
Service toute la journée


Schedule / Horaire........613-560-1000 Text / Texto
plus your four digit bus stop number / plus votre numéro d'arrêt à quatre chiffres
Customer Service
Service à la clientèle ................... 613-741-4390
Lost and Found / Objets perdus...... 613-563-4011
Security / Sécurité
. 613-741-2478
Effective Decembre 24, 2017
En vigueur 24 décembre 2017
INFO 613-741-4390
octranspo.com

## APPENDIX C

TRAFFIC DATA

Turning Movement Count
Bicycle Summary
Flow Diagram
Baseline Road \& 1356/1366 Clyde Avenue Access
Ottawa, ON


## Comments:

Through traffic on Baseline Road was not counted. Bicycles were counted on only the north side of Baseline Road or using the exit from 1356/1366 Clyde Avenue. The lone cyclist noted was driving easterly on the sidewalk on the north side of Baseline Road.

Turning Movement Count Summary, AM and PM Peak Hour

Flow Diagrams

## Baseline Road \& 1356/1366 Clyde Avenue Access



Turning Movement Count
Pedestrian Crossings Summary and Flow Diagram

## Baseline Road \& 1356/1366 Clyde Avenue Access



| Time Period | West Side Crossing <br> Baseline Rd. | East Side Crossing <br> Baseline Rd. | Street <br> Total | South Side Crossing <br> N/A | North Side Crossing <br> $1356 / 1366$ Clyde Ave. | Street <br> Total | Grand <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $0700-0800$ | 1 | 0 | 1 | 0 | 24 | 24 | 25 |
| $0800-0900$ | 0 | 1 | 1 | 0 | 29 | 29 | 30 |
| $1600-1700$ | 0 | 0 | 0 | 0 | 34 | 34 | 34 |
| $1700-1800$ | 0 | 1 | 0 | 0 | 20 | 20 | 20 |
| Totals | 1 | 2 | 0 | 107 | 107 | 109 |  |

## Comments:

Through traffic on Baseline Road was not counted. Bicycles were counted on only the north side of Baseline Road or using the exit from 1356/1366 Clyde Avenue. The lone cyclist noted was driving easterly on the sidewalk on the north side of Baseline Road.

# Summary Report <br> AADT and Expansion Factors 



Equivalent 12 \& 24-hour Vehicle Volumes Including the Annual Average Daily Traffic (AADT) Factor Applicable to the Day and Month of the Turning Movement Count

Expansion factors are applied exclusively to standard weekday 8-hour turning movement counts conducted during the hours of $0700 \mathrm{~h}=1000 \mathrm{~h}, 1130 \mathrm{~h}=1330 \mathrm{~h}$ and $1500 \mathrm{~h}=1800 \mathrm{~h}$

| Equivalent 12-hour vehicle volumes. These volumes are calculated by multiplying the 8-hour totals by the $8 \Rightarrow 12$ expansion factor of 1.39 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{lllllllllllllllll}\text { Equ. } 12 \mathrm{Hr} & n / a & n / a & n / a & n / a & n / a & n / a & n / a & n / a & n / a & n / a & n / a & n / a & n / a & n / a & n / a & n / a\end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Average daily 12 -hour vehicle volumes. These volumes are calculated by multiplying the equivalent 12-hour totals by the AADT factor of: 1.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AADT 12-hr | n/a |  |  | $\mathrm{n} / \mathrm{a}$ | n/a | $\mathrm{n} / \mathrm{a}$ | 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 | n/a |
| 24-Hour AADT. These volumes are calculated by multiplying the average daily 12 -hour vehicle volumes by the $12 \boldsymbol{2 4}$ expansion factor of 1.31 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AADT 24 Hr | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | n/a | n/a | n/a |  | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | n/a |

AADT and expansion factors provided by the City of Ottawa

| AM Peak | Fa | r |  | 0.5 |  |  |  |  |  |  |  |  |  | Ig |  | , |  |  |  | tw | , |  | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AM Peak Hr | LT | ST | RT | UT | TOT | LT | ST | RT | UT | TOT | S.TOT | LT | ST | RT | UT | TOT | LT | ST | RT | UT |  | S.TOT | G.TOT |
| 0800-0900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 8 | 8 | 8 |


| PM Peak Hour Factor $\Rightarrow$ |  |  |  | 0.85 |  | LT | ST | RT | UT | TOT | S.TOT | LT | Highest Hourly Vehicle Volume Between 1600h \& 1800h |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PM Peak Hr | LT | ST | RT | UT | TOT |  |  |  |  |  |  |  | ST | RT | UT | TOT | LT | ST | RT | UT | TOT | S.TOT | G.TOT |
| 1600-1700 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 | 0 | 33 | 33 | 34 |

Comments:
Through traffic on Baseline Road was not counted. Bicycles were counted on only the north side of Baseline Road or using the exit from 1356/1366 Clyde Avenue. The lone cyclist noted was driving easterly on the sidewalk on the north side of Baseline Road.

## Notes:

1. Includes all vehicle types except bicycles, electric bicycles, and electric scooters.
2.When expansion and AADT factors are applied, the results will differ slightly due to rounding.

Turning Movement Count - Study Results

## BASELINE RD @ CLYDE AVE

Survey Date: Wednesday, August 21, 2019
Start Time: 07:00
$\begin{array}{lc}\text { WO No: } & 38720 \\ \text { Device: } & \text { Miovision }\end{array}$

Full Study Diagram


Turning Movement Count - Study Results

## BASELINE RD @ CLYDE AVE

| Survey Date: Wednesday, August 21, 2019 | WO No: | 38720 |
| :---: | :---: | :---: |
| Start Time: $07: 00$ | Device: | Miovision |

## Full Study Peak Hour Diagram



## Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

## BASELINE RD @ CLYDE AVE

Survey Date: Wednesday, August 21, 2019
Start Time: 07:00

WO No: 38720
Device: Miovision


Comments

## Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

## BASELINE RD @ CLYDE AVE

Survey Date: Wednesday, August 21, 2019
Start Time: 07:00

WO No: 38720
Device: Miovision


Comments

## Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

## BASELINE RD @ CLYDE AVE

Survey Date: Wednesday, August 21, 2019
Start Time: 07:00

WO No: 38720
Device: Miovision


Comments

## BASELINE RD @ CLYDE AVE

| Survey Date: Wednesday, August 21, 2019 | WO No: | 38720 |
| :---: | :---: | :---: |
| Start Time: $07: 00$ | Device: | Miovision |

## Full Study Summary (8 HR Standard)

Survey Date: Wednesday, August 21, 2019

Total Observed U-Turns
AADT Factor $\begin{array}{cllll}\text { Northbound: } & 25 & \text { Southbound: } & 233 \\ \text { Eastbound: } & 7 & \text { Westbound: } & 75\end{array}$
1.25

BASELINE RD

|  | Northbound |  |  | Southbound |  |  |  |  | Eastbound |  |  |  |  | Westbound |  |  |  | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | LT | ST | RT | $\begin{array}{r} \text { NB } \\ \text { TOT } \end{array}$ | LT | ST | RT | $\begin{array}{r} \text { SB } \\ \text { TOT } \end{array}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | LT | ST | RT | $\begin{aligned} & \text { EB } \\ & \text { TOT } \end{aligned}$ | LT | ST | RT | $\begin{aligned} & \text { WB } \\ & \text { TOT } \end{aligned}$ |  |  |
| 07:00 08:00 | 63 | 626 | 80 | 769 | 248 | 447 | 19 | 714 | 1483 | 151 | 989 | 100 | 1240 | 43 | 420 | 349 | 812 | 2052 | 3535 |
| 08:00 09:00 | 107 | 711 | 105 | 923 | 296 | 499 | 56 | 851 | 1774 | 179 | 988 | 157 | 1324 | 69 | 423 | 305 | 797 | 2121 | 3895 |
| 09:00 10:00 | 140 | 634 | 80 | 854 | 260 | 538 | 48 | 846 | 1700 | 118 | 710 | 220 | 1048 | 72 | 445 | 317 | 834 | 1882 | 3582 |
| 11:30 12:30 | 204 | 653 | 111 | 968 | 303 | 666 | 66 | 1035 | 2003 | 123 | 624 | 223 | 970 | 141 | 644 | 396 | 1181 | 2151 | 4154 |
| 12:30 13:30 | 266 | 680 | 111 | 1057 | 340 | 622 | 68 | 1030 | 2087 | 141 | 557 | 242 | 940 | 142 | 584 | 319 | 1045 | 1985 | 4072 |
| 15:00 16:00 | 250 | 747 | 82 | 1079 | 262 | 500 | 71 | 833 | 1912 | 149 | 915 | 214 | 1278 | 131 | 982 | 549 | 1662 | 2940 | 4852 |
| 16:00 17:00 | 313 | 750 | 79 | 1142 | 325 | 558 | 77 | 960 | 2102 | 157 | 949 | 199 | 1305 | 113 | 1162 | 521 | 1796 | 3101 | 5203 |
| 17:00 18:00 | 286 | 741 | 74 | 1101 | 345 | 558 | 78 | 981 | 2082 | 138 | 842 | 215 | 1195 | 138 | 1139 | 513 | 1790 | 2985 | 5067 |
| Sub Total | 1629 | 5542 | 722 | 7893 | 2379 | 4388 | 483 | 7250 | 15143 | 1156 | 6574 | 1570 | 9300 | 849 | 5799 | 3269 | 9917 | 19217 | 34360 |
| U Turns |  |  |  | 25 |  |  |  | 233 | 258 |  |  |  | 7 |  |  |  | 75 | 82 | 340 |
| Total | 1629 | 5542 | 722 | 7918 | 2379 | 4388 | 483 | 7483 | 15401 | 1156 | 6574 | 1570 | 9307 | 849 | 5799 | 3269 | 9992 | 19299 | 34700 |
| EQ 12Hr | 2264 | 7703 | 1004 | 11006 | 3307 | 6099 | 671 | 10401 | 21407 | 1607 | 9138 | 2182 | 12937 | 1180 | 8061 | 4544 | 13889 | 26826 | 48233 |
| Note: These values are calculated by multiplying the totals by the appropriate expansion factor. |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.39 |  |  |  |  |  |


| AVG 12Hr | 2038 | 6933 | 903 | 9905 | 2976 | 5489 | 604 | 9361 | 19266 | 1446 | 8224 | 1964 | 11643 | 1062 | 7255 | 4090 | 12500 | 24143 | 43410 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | Note: These volumes are calculated by multiplying the Equivalent 12 hr . totals by the AADT factor. 0.9


| AVG 24Hr | 2670 | 9082 | 1183 | 12976 | 3899 | 7191 | 792 | 12263 | 25239 | 1894 | 10774 | 2573 | 15252 | 1391 | 9503 | 5357 | 16375 | 31627 | 56866 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Note: These volumes are calculated by multiplying the Average Daily 12 hr. totals by 12 to 24 expansion factor. 1.31

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

## Transportation Services - Traffic Services

Survey Date: Wednesday, August 21, 2019
Start Time: 07:00

## WO No:

38720
Device:
Miovision
Full Study 15 Minute Increments
CLYDE AVE

| Time Period |  | Northbound |  |  | Southbound |  |  |  |  | Eastbound |  |  |  |  | Westbound |  |  | $\begin{gathered} \text { w } \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \\ & \hline \end{aligned}$ | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LT | ST | RT | $\begin{gathered} \mathrm{N} \\ \mathrm{TOT} \end{gathered}$ | LT | ST | RT | $\begin{gathered} \mathrm{S} \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | LT | ST | RT | $\begin{gathered} \mathrm{E} \\ \text { TOT } \end{gathered}$ | LT | ST | RT |  |  |  |
| 07:00 | 07:15 | 11 | 93 | 12 | 116 | 57 | 92 | 3 | 156 | 571 | 23 | 195 | 20 | 239 | 8 | 74 | 59 | 142 | 571 | 653 |
| 07:15 | 07:30 | 13 | 142 | 24 | 179 | 54 | 122 | 1 | 179 | 779 | 42 | 257 | 26 | 325 | 10 | 100 | 77 | 189 | 779 | 872 |
| 07:30 | 07:45 | 25 | 197 | 22 | 244 | 70 | 135 | 5 | 215 | 979 | 37 | 239 | 27 | 303 | 16 | 127 | 103 | 248 | 979 | 1010 |
| 07:45 | 08:00 | 14 | 194 | 22 | 230 | 67 | 98 | 10 | 181 | 904 | 49 | 298 | 27 | 375 | 9 | 119 | 110 | 246 | 904 | 1032 |
| 08:00 | 08:15 | 24 | 149 | 21 | 195 | 86 | 114 | 16 | 217 | 864 | 40 | 247 | 36 | 323 | 17 | 150 | 94 | 266 | 864 | 1001 |
| 08:15 | 08:30 | 20 | 191 | 34 | 245 | 68 | 112 | 18 | 203 | 913 | 44 | 285 | 38 | 369 | 12 | 78 | 63 | 154 | 913 | 971 |
| 08:30 | 08:45 | 42 | 170 | 19 | 231 | 67 | 124 | 10 | 206 | 914 | 51 | 229 | 37 | 317 | 14 | 104 | 76 | 197 | 914 | 951 |
| 08:45 | 09:00 | 21 | 201 | 31 | 253 | 75 | 149 | 12 | 239 | 1033 | 44 | 227 | 46 | 318 | 26 | 91 | 72 | 190 | 1033 | 1000 |
| 09:00 | 09:15 | 37 | 183 | 27 | 248 | 80 | 140 | 10 | 239 | 1000 | 31 | 193 | 60 | 284 | 15 | 89 | 74 | 181 | 1000 | 952 |
| 09:15 | 09:30 | 30 | 168 | 24 | 224 | 51 | 112 | 14 | 185 | 856 | 27 | 205 | 54 | 286 | 18 | 100 | 58 | 180 | 856 | 875 |
| 09:30 | 09:45 | 27 | 148 | 18 | 193 | 58 | 134 | 9 | 205 | 873 | 24 | 169 | 56 | 249 | 16 | 103 | 93 | 216 | 873 | 863 |
| 09:45 | 10:00 | 46 | 135 | 11 | 192 | 71 | 152 | 15 | 247 | 936 | 36 | 143 | 50 | 229 | 23 | 153 | 92 | 271 | 936 | 939 |
| 11:30 | 11:45 | 55 | 181 | 28 | 264 | 75 | 153 | 19 | 254 | 1044 | 27 | 172 | 46 | 245 | 21 | 124 | 91 | 238 | 1044 | 1001 |
| 11:45 | 12:00 | 47 | 155 | 21 | 224 | 85 | 186 | 12 | 294 | 1091 | 34 | 152 | 57 | 243 | 37 | 187 | 92 | 319 | 1091 | 1080 |
| 12:00 | 12:15 | 51 | 171 | 34 | 258 | 65 | 155 | 19 | 250 | 1095 | 35 | 161 | 58 | 254 | 46 | 149 | 109 | 307 | 1095 | 1069 |
| 12:15 | 12:30 | 51 | 146 | 28 | 227 | 78 | 172 | 16 | 279 | 1069 | 27 | 139 | 62 | 228 | 37 | 184 | 104 | 330 | 1069 | 1064 |
| 12:30 | 12:45 | 65 | 176 | 20 | 263 | 79 | 176 | 18 | 284 | 1130 | 45 | 148 | 62 | 255 | 32 | 143 | 79 | 255 | 1130 | 1057 |
| 12:45 | 13:00 | 62 | 165 | 30 | 257 | 93 | 156 | 25 | 284 | 1090 | 29 | 150 | 63 | 242 | 35 | 148 | 91 | 277 | 1090 | 1060 |
| 13:00 | 13:15 | 59 | 184 | 31 | 275 | 80 | 136 | 8 | 233 | 1051 | 37 | 133 | 67 | 237 | 44 | 133 | 65 | 244 | 1051 | 989 |
| 13:15 | 13:30 | 80 | 155 | 30 | 265 | 88 | 154 | 17 | 269 | 1048 | 30 | 126 | 50 | 206 | 31 | 160 | 84 | 275 | 1048 | 1015 |
| 15:00 | 15:15 | 66 | 191 | 25 | 284 | 61 | 133 | 16 | 216 | 1083 | 43 | 203 | 45 | 291 | 30 | 221 | 133 | 386 | 1083 | 1177 |
| 15:15 | 15:30 | 68 | 183 | 25 | 278 | 60 | 136 | 21 | 227 | 1101 | 32 | 213 | 58 | 303 | 32 | 258 | 143 | 434 | 1101 | 1242 |
| 15:30 | 15:45 | 54 | 183 | 20 | 259 | 66 | 126 | 14 | 212 | 1049 | 36 | 287 | 65 | 389 | 36 | 250 | 124 | 411 | 1049 | 1271 |
| 15:45 | 16:00 | 62 | 190 | 12 | 266 | 75 | 105 | 20 | 207 | 1043 | 38 | 212 | 46 | 296 | 33 | 253 | 149 | 438 | 1043 | 1207 |
| 16:00 | 16:15 | 91 | 170 | 19 | 280 | 80 | 122 | 22 | 231 | 1053 | 40 | 244 | 37 | 321 | 36 | 287 | 130 | 455 | 1053 | 1287 |
| 16:15 | 16:30 | 71 | 179 | 20 | 270 | 79 | 129 | 18 | 236 | 1072 | 36 | 245 | 43 | 324 | 31 | 301 | 138 | 473 | 1072 | 1303 |
| 16:30 | 16:45 | 72 | 200 | 14 | 286 | 74 | 150 | 23 | 251 | 1153 | 40 | 231 | 66 | 338 | 26 | 277 | 130 | 438 | 1153 | 1313 |
| 16:45 | 17:00 | 79 | 201 | 26 | 307 | 92 | 157 | 14 | 268 | 1176 | 41 | 229 | 53 | 323 | 20 | 297 | 123 | 441 | 1176 | 1339 |
| 17:00 | 17:15 | 73 | 165 | 24 | 263 | 95 | 163 | 16 | 283 | 1141 | 36 | 186 | 46 | 268 | 40 | 280 | 135 | 455 | 1141 | 1269 |
| 17:15 | 17:30 | 71 | 199 | 16 | 287 | 80 | 144 | 26 | 261 | 1167 | 38 | 223 | 55 | 316 | 32 | 288 | 139 | 460 | 1167 | 1324 |
| 17:30 | 17:45 | 69 | 193 | 19 | 282 | 87 | 129 | 18 | 240 | 1086 | 33 | 232 | 56 | 321 | 34 | 297 | 112 | 443 | 1086 | 1286 |
| 17:45 | 18:00 | 73 | 184 | 15 | 273 | 83 | 122 | 18 | 232 | 1069 | 31 | 201 | 58 | 290 | 32 | 274 | 127 | 433 | 1069 | 1228 |
| Total: |  | 1629 | 5542 | 722 | 7918 | 2379 | 4388 | 483 | 7483 | 32433 \| | 1156 | 6574 | 1570 | 9307 | 849 | 5799 | 3269 | 9992 | 32433 \| | 34,700 |

Note: U-Turns are included in Totals.

## Transportation Services - Traffic Services

Turning Movement Count - Study Results
BASELINE RD @ CLYDE AVE

| Survey Date: Wednesday, August 21, 2019 | WO No: | 38720 |
| :---: | :---: | :---: |
| Start Time: $07: 00$ | Device: | Miovision |

Full Study Cyclist Volume
CLYDE AVE
BASELINE RD

| Time Period |  | CLYDE AVE |  |  | 促 |  |  | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Northbound | Southbound | Street Total | Eastbound | Westbound | Street Total |  |
| 07:00 | 07:15 | 0 | 2 | 2 | 2 | 1 | 3 | 5 |
| 07:15 | 07:30 | 2 | 0 | 2 | 0 | 1 | 1 | 3 |
| 07:30 | 07:45 | 0 | 1 | 1 | 1 | 2 | 3 | 4 |
| 07:45 | 08:00 | 0 | 0 | 0 | 2 | 1 | 3 | 3 |
| 08:00 | 08:15 | 0 | 3 | 3 | 0 | 0 | 0 | 3 |
| 08:15 | 08:30 | 3 | 1 | 4 | 0 | 3 | 3 | 7 |
| 08:30 | 08:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 09:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 09:15 | 0 | 0 | 0 | 1 | 1 | 2 | 2 |
| 09:15 | 09:30 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 09:30 | 09:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 11:45 | 0 | 0 | 0 | 2 | 2 | 4 | 4 |
| 11:45 | 12:00 | 1 | 2 | 3 | 2 | 2 | 4 | 7 |
| 12:00 | 12:15 | 1 | 0 | 1 | 1 | 1 | 2 | 3 |
| 12:15 | 12:30 | 1 | 0 | 1 | 1 | 1 | 2 | 3 |
| 12:30 | 12:45 | 0 | 0 | 0 | 2 | 2 | 4 | 4 |
| 12:45 | 13:00 | 1 | 2 | 3 | 2 | 1 | 3 | 6 |
| 13:00 | 13:15 | 1 | 3 | 4 | 0 | 3 | 3 | 7 |
| 13:15 | 13:30 | 0 | 3 | 3 | 0 | 2 | 2 | 5 |
| 15:00 | 15:15 | 0 | 1 | 1 | 1 | 0 | 1 | 2 |
| 15:15 | 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 15:45 | 1 | 0 | 1 | 2 | 0 | 2 | 3 |
| 15:45 | 16:00 | 0 | 2 | 2 | 1 | 0 | 1 | 3 |
| 16:00 | 16:15 | 2 | 0 | 2 | 1 | 1 | 2 | 4 |
| 16:15 | 16:30 | 0 | 0 | 0 | 1 | 2 | 3 | 3 |
| 16:30 | 16:45 | 4 | 3 | 7 | 1 | 1 | 2 | 9 |
| 16:45 | 17:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 17:00 | 17:15 | 2 | 0 | 2 | 2 | 2 | 4 | 6 |
| 17:15 | 17:30 | 1 | 1 | 2 | 1 | 3 | 4 | 6 |
| 17:30 | 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 18:00 | 1 | 1 | 2 | 0 | 2 | 2 | 4 |
| Total |  | 21 | 26 | 47 | 26 | 35 | 61 | 108 |

Turning Movement Count - Study Results
BASELINE RD@ CLYDE AVE

| Survey Date: Wednesday, August 21, 2019 | WO No: | 38720 |
| :--- | :---: | :---: |
| Start Time: $07: 00$ | Device: | Miovision |

## Full Study Pedestrian Volume <br> CLYDE AVE BASELINE RD

| Time Period | NB Approach (E or W Crossing) | SB Approach (E or W Crossing) | Total | EB Approach ( N or S Crossing) | WB Approach ( N or S Crossing) | Total | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00 07:15 | 1 | 3 | 4 | 3 | 4 | 7 | 11 |
| 07:15 07:30 | 4 | 6 | 10 | 3 | 6 | 9 | 19 |
| 07:30 07:45 | 2 | 2 | 4 | 4 | 3 | 7 | 11 |
| 07:45 08:00 | 3 | 5 | 8 | 2 | 4 | 6 | 14 |
| 08:00 08:15 | 0 | 1 | 1 | 1 | 1 | 2 | 3 |
| 08:15 08:30 | 5 | 3 | 8 | 2 | 4 | 6 | 14 |
| 08:30 08:45 | 1 | 3 | 4 | 3 | 1 | 4 | 8 |
| 08:45 09:00 | 3 | 4 | 7 | 2 | 4 | 6 | 13 |
| 09:00 09:15 | 0 | 4 | 4 | 4 | 5 | 9 | 13 |
| 09:15 09:30 | 3 | 2 | 5 | 2 | 5 | 7 | 12 |
| 09:30 09:45 | 8 | 3 | 11 | 2 | 11 | 13 | 24 |
| 09:45 10:00 | 4 | 8 | 12 | 9 | 11 | 20 | 32 |
| 11:30 11:45 | 2 | 6 | 8 | 2 | 5 | 7 | 15 |
| 11:45 12:00 | 2 | 8 | 10 | 3 | 7 | 10 | 20 |
| 12:00 12:15 | 4 | 7 | 11 | 4 | 6 | 10 | 21 |
| 12:15 12:30 | 10 | 10 | 20 | 8 | 5 | 13 | 33 |
| 12:30 12:45 | 9 | 2 | 11 | 8 | 6 | 14 | 25 |
| 12:45 13:00 | 4 | 1 | 5 | 6 | 5 | 11 | 16 |
| 13:00 13:15 | 1 | 5 | 6 | 6 | 4 | 10 | 16 |
| 13:15 13:30 | 2 | 9 | 11 | 4 | 2 | 6 | 17 |
| 15:00 15:15 | 9 | 9 | 18 | 4 | 8 | 12 | 30 |
| 15:15 15:30 | 5 | 8 | 13 | 5 | 6 | 11 | 24 |
| 15:30 15:45 | 7 | 18 | 25 | 10 | 9 | 19 | 44 |
| 15:45 16:00 | 5 | 5 | 10 | 9 | 10 | 19 | 29 |
| 16:00 16:15 | 5 | 9 | 14 | 10 | 6 | 16 | 30 |
| 16:15 16:30 | 1 | 4 | 5 | 3 | 2 | 5 | 10 |
| 16:30 16:45 | 10 | 4 | 14 | 10 | 7 | 17 | 31 |
| 16:45 17:00 | 4 | 5 | 9 | 9 | 5 | 14 | 23 |
| 17:00 17:15 | 7 | 12 | 19 | 14 | 8 | 22 | 41 |
| 17:15 17:30 | 8 | 10 | 18 | 8 | 10 | 18 | 36 |
| 17:30 17:45 | 7 | 5 | 12 | 5 | 10 | 15 | 27 |
| 17:45 18:00 | 13 | 4 | 17 | 8 | 6 | 14 | 31 |
| Total .......... | 149 | 185 | 334 | 173 | 186 | 359 | 693 |

## ( (Ottawa <br> Transportation Services - Traffic Services <br> Turning Movement Count - Study Results BASELINE RD @ CLYDE AVE

Survey Date: Wednesday, August 21, 2019 Start Time: 07:00

WO No:
Device:
38720
Miovision

## Full Study Heavy Vehicles

CLYDE AVE

BASELINE RD

## Northbound

Southbound

| Time Period |  | LT | ST | RT | $\begin{gathered} \text { N } \\ \text { TOT } \end{gathered}$ | LT | ST | RT | $\begin{gathered} \text { S } \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | LT | ST | RT | $\begin{gathered} \text { E } \\ \text { TOT } \end{gathered}$ | LT | ST | RT | $\begin{gathered} \text { W } \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00 | 07:15 | 1 | 5 | 0 | 7 | 0 | 1 | 0 | 7 | 14 | 1 | 3 | 0 | 11 | 0 | 6 | 0 | 9 | 20 | 17 |
| 07:15 | 07:30 | 1 | 4 | 1 | 13 | 1 | 3 | 1 | 9 | 22 | 0 | 7 | 4 | 18 | 0 | 5 | 0 | 14 | 32 | 27 |
| 07:30 | 07:45 | 0 | 3 | 1 | 5 | 0 | 1 | 0 | 5 | 10 | 0 | 5 | 0 | 13 | 0 | 8 | 1 | 15 | 28 | 19 |
| 07:45 | 08:00 | 1 | 5 | 2 | 10 | 1 | 2 | 1 | 10 | 20 | 0 | 9 | 0 | 16 | 0 | 5 | 1 | 18 | 34 | 27 |
| 08:00 | 08:15 | 3 | 1 | 0 | 8 | 1 | 2 | 2 | 6 | 14 | 0 | 2 | 2 | 19 | 0 | 10 | 0 | 13 | 32 | 23 |
| 08:15 | 08:30 | 0 | 2 | 2 | 8 | 2 | 1 | 2 | 7 | 15 | 0 | 8 | 2 | 13 | 1 | 1 | 0 | 14 | 27 | 21 |
| 08:30 | 08:45 | 5 | 2 | 0 | 10 | 0 | 2 | 0 | 4 | 14 | 0 | 4 | 0 | 15 | 1 | 6 | 0 | 11 | 26 | 20 |
| 08:45 | 09:00 | 1 | 4 | 0 | 11 | 0 | 0 | 1 | 8 | 19 | 2 | 6 | 3 | 17 | 3 | 4 | 1 | 14 | 31 | 25 |
| 09:00 | 09:15 | 4 | 2 | 1 | 12 | 0 | 1 | 0 | 3 | 15 | 0 | 6 | 4 | 21 | 0 | 7 | 0 | 14 | 35 | 25 |
| 09:15 | 09:30 | 1 | 4 | 1 | 13 | 1 | 2 | 3 | 11 | 24 | 1 | 7 | 5 | 20 | 0 | 3 | 0 | 12 | 32 | 28 |
| 09:30 | 09:45 | 3 | 1 | 1 | 9 | 0 | 2 | 0 | 4 | 13 | 0 | 5 | 1 | 12 | 1 | 3 | 1 | 11 | 23 | 18 |
| 09:45 | 10:00 | 2 | 4 | 1 | 7 | 0 | 0 | 1 | 7 | 14 | 2 | 2 | 0 | 10 | 0 | 3 | 0 | 6 | 16 | 15 |
| 11:30 | 11:45 | 3 | 1 | 0 | 9 | 2 | 3 | 1 | 9 | 18 | 2 | 7 | 1 | 18 | 1 | 4 | 0 | 14 | 32 | 25 |
| 11:45 | 12:00 | 1 | 2 | 1 | 7 | 1 | 2 | 1 | 8 | 15 | 0 | 2 | 0 | 9 | 1 | 5 | 2 | 12 | 21 | 18 |
| 12:00 | 12:15 | 2 | 3 | 2 | 11 | 2 | 3 | 0 | 9 | 20 | 0 | 2 | 1 | 9 | 0 | 4 | 1 | 11 | 20 | 20 |
| 12:15 | 12:30 | 5 | 1 | 1 | 15 | 3 | 6 | 0 | 14 | 29 | 2 | 2 | 2 | 16 | 0 | 5 | 2 | 13 | 29 | 29 |
| 12:30 | 12:45 | 6 | 1 | 1 | 13 | 2 | 3 | 1 | 9 | 22 | 2 | 3 | 1 | 15 | 1 | 2 | 0 | 9 | 24 | 23 |
| 12:45 | 13:00 | 2 | 0 | 2 | 7 | 1 | 2 | 2 | 7 | 14 | 1 | 3 | 1 | 17 | 0 | 8 | 1 | 15 | 32 | 23 |
| 13:00 | 13:15 | 0 | 3 | 0 | 7 | 2 | 2 | 0 | 9 | 16 | 1 | 4 | 1 | 10 | 1 | 4 | 1 | 12 | 22 | 19 |
| 13:15 | 13:30 | 2 | 1 | 1 | 5 | 1 | 0 | 2 | 6 | 11 | 1 | 5 | 0 | 17 | 1 | 7 | 1 | 16 | 33 | 22 |
| 15:00 | 15:15 | 1 | 3 | 0 | 4 | 0 | 0 | 0 | 4 | 8 | 1 | 5 | 0 | 17 | 0 | 10 | 0 | 15 | 32 | 20 |
| 15:15 | 15:30 | 3 | 1 | 3 | 9 | 1 | 1 | 1 | 8 | 17 | 1 | 7 | 1 | 16 | 0 | 3 | 3 | 17 | 33 | 25 |
| 15:30 | 15:45 | 1 | 2 | 0 | 8 | 1 | 4 | 0 | 12 | 20 | 0 | 4 | 1 | 8 | 0 | 2 | 5 | 12 | 20 | 20 |
| 15:45 | 16:00 | 0 | 0 | 1 | 2 | 0 | 0 | 0 | 3 | 5 | 2 | 8 | 1 | 14 | 0 | 3 | 1 | 13 | 27 | 16 |
| 16:00 | 16:15 | 1 | 2 | 0 | 4 | 1 | 0 | 1 | 6 | 10 | 0 | 4 | 1 | 10 | 0 | 3 | 2 | 10 | 20 | 15 |
| 16:15 | 16:30 | 0 | 1 | 2 | 5 | 2 | 1 | 0 | 4 | 9 | 0 | 7 | 1 | 13 | 0 | 5 | 0 | 16 | 29 | 19 |
| 16:30 | 16:45 | 1 | 1 | 0 | 5 | 1 | 0 | 0 | 4 | 9 | 1 | 5 | 3 | 15 | 0 | 5 | 1 | 12 | 27 | 18 |
| 16:45 | 17:00 | 0 | 1 | 1 | 3 | 1 | 1 | 0 | 4 | 7 | 1 | 6 | 0 | 15 | 0 | 8 | 0 | 16 | 31 | 19 |
| 17:00 | 17:15 | 0 | 2 | 1 | 4 | 1 | 1 | 0 | 7 | 11 | 0 | 4 | 0 | 8 | 0 | 4 | 3 | 13 | 21 | 16 |
| 17:15 | 17:30 | 2 | 2 | 1 | 7 | 0 | 1 | 0 | 6 | 13 | 1 | 6 | 0 | 20 | 1 | 11 | 2 | 21 | 41 | 27 |
| 17:30 | 17:45 | 1 | 1 | 0 | 4 | 0 | 1 | 0 | 4 | 8 | 2 | 4 | 1 | 13 | 0 | 5 | 0 | 9 | 22 | 15 |
| 17:45 | 18:00 | 1 | 0 | 2 | 4 | 0 | 1 | 1 | 3 | 7 | 1 | 1 | 0 | 9 | 0 | 5 | 0 | 8 | 17 | 12 |
| Total: | None | 54 | 65 | 29 | 246 | 28 | 49 | 21 | 217 | 463 | 25 | 153 | 37 | 454 | 12 | 164 | 29 | 415 | 869 | 666 |

## Transportation Services - Traffic Services

Turning Movement Count - Study Results BASELINE RD @ CLYDE AVE

| Survey Date: Wednesday, August 21, 2019 | Wo No: | 38720 |
| :---: | :---: | :---: |
| Start Time: $07: 00$ | Device: | Miovision |

Full Study 15 Minute U-Turn Total
CLyde ave
baseline RD

| Time Period |  | Northbound U-Turn Total | Southbound U-Turn Total | Eastbound U-Turn Total | Westbound U-Turn Total | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00 | 07:15 | 0 | 4 | 1 | 1 | 6 |
| 07:15 | 07:30 | 0 | 2 | 0 | 2 | 4 |
| 07:30 | 07:45 | 0 | 5 | 0 | 2 | 7 |
| 07:45 | 08:00 | 0 | 6 | 1 | 8 | 15 |
| 08:00 | 08:15 | 1 | 1 | 0 | 5 | 7 |
| 08:15 | 08:30 | 0 | 5 | 2 | 1 | 8 |
| 08:30 | 08:45 | 0 | 5 | 0 | 3 | 8 |
| 08:45 | 09:00 | 0 | 3 | 1 | 1 | 5 |
| 09:00 | 09:15 | 1 | 9 | 0 | 3 | 13 |
| 09:15 | 09:30 | 2 | 8 | 0 | 4 | 14 |
| 09:30 | 09:45 | 0 | 4 | 0 | 4 | 8 |
| 09:45 | 10:00 | 0 | 9 | 0 | 3 | 12 |
| 11:30 | 11:45 | 0 | 7 | 0 | 2 | 9 |
| 11:45 | 12:00 | 1 | 11 | 0 | 3 | 15 |
| 12:00 | 12:15 | 2 | 11 | 0 | 3 | 16 |
| 12:15 | 12:30 | 2 | 13 | 0 | 5 | 20 |
| 12:30 | 12:45 | 2 | 11 | 0 | 1 | 14 |
| 12:45 | 13:00 | 0 | 10 | 0 | 3 | 13 |
| 13:00 | 13:15 | 1 | 9 | 0 | 2 | 12 |
| 13:15 | 13:30 | 0 | 10 | 0 | 0 | 10 |
| 15:00 | 15:15 | 2 | 6 | 0 | 2 | 10 |
| 15:15 | 15:30 | 2 | 10 | 0 | 1 | 13 |
| 15:30 | 15:45 | 2 | 6 | 1 | 1 | 10 |
| 15:45 | 16:00 | 2 | 7 | 0 | 3 | 12 |
| 16:00 | 16:15 | 0 | 7 | 0 | 2 | 9 |
| 16:15 | 16:30 | 0 | 10 | 0 | 3 | 13 |
| 16:30 | 16:45 | 0 | 4 | 1 | 5 | 10 |
| 16:45 | 17:00 | 1 | 5 | 0 | 1 | 7 |
| 17:00 | 17:15 | 1 | 9 | 0 | 0 | 10 |
| 17:15 | 17:30 | 1 | 11 | 0 | 1 | 13 |
| 17:30 | 17:45 | 1 | 6 | 0 | 0 | 7 |
| 17:45 | 18:00 | 1 | 9 | 0 | 0 | 10 |
| Total |  | 25 | 233 | 7 | 75 | 340 |

Turning Movement Count
Bicycle Summary
Flow Diagram


## Comments:

Through traffic on Clyde Avenue was not counted. All bicycle movements counted. A few northbound U-turning vehicles were unable to complete their turn in one movement as the driver had to reverse to complete a three point turn. Some pedestrians walk along the narrow median.

Turning Movement Count Summary, AM and PM Peak Hour

Flow Diagrams

## Clyde Avenue \& 1356/1366 North Access

Ottawa, ON


Turning Movement Count
Pedestrian Crossings Summary and Flow Diagram

## Clyde Avenue \& 1356/1366 North Access



| Time Period | West Side Crossing <br> $1356 / 1366$ Clyde Ave. (N) | East Side Crossing <br> N/A | Street <br> Total | South Side Crossing <br> Clyde Ave. | North Side Crossing <br> Clyde Ave. | Street <br> Total | Grand <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{0 7 0 0 - 0 8 0 0}$ | 13 | 0 | 13 | 1 | 5 | 6 | 19 |
| $0800-0900$ | 18 | 0 | 18 | 0 | 3 | 3 | 21 |
| $1600-1700$ | 29 | 0 | 29 | 1 | 3 | 4 | 33 |
| $1700-1800$ | 19 | 0 | 19 | 1 | 6 | 7 | 26 |
| Totals | 79 | 0 | 79 | 3 | 17 | 20 | 99 |

## Comments:

Through traffic on Clyde Avenue was not counted. All bicycle movements counted. A few northbound U-turning vehicles were unable to complete their turn in one movement as the driver had to reverse to complete a three point turn. Some pedestrians walk along the narrow median.
Clyde Avenue \& 1356/1366 North Access

| Survey Da |  | Wedn | esday, | y, 22 | Janua |  |  |  |  |  |  | Start | Tim |  |  | 0700 |  |  | AAD | T Fa |  |  | 1.0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Weather AM |  | Cloudy | - $-4^{\circ} \mathrm{C}$ |  |  |  | vey | Dura | tion: |  | Hrs. |  | y | ours: |  | 0700- | -0900 | \& 160 | 0-18 |  |  |  |  |
| Weather PN |  | Overc | ast +2 | $2^{\circ} \mathrm{C}$ |  |  |  |  |  |  |  |  | yor(s): |  |  | Ca |  |  |  |  |  |  |  |
|  |  | 6/1366 | Clyde | de Ave | (N) |  |  | N/A |  |  |  |  |  | de A | Ave. |  |  | Cly | de | ve. |  |  |  |
|  |  |  | stbound |  |  |  |  | stbo |  |  |  |  |  | thbou |  |  |  |  | thbo |  |  |  |  |
| Time Period | LT | ST | RT | UT | $\begin{array}{\|l} \hline \mathrm{E} / \mathrm{B} \\ \mathrm{Tot} \end{array}$ | LT | ST | RT | UT | $\begin{aligned} & \hline \text { W/B } \\ & \text { Tot } \end{aligned}$ | $\begin{array}{c\|} \text { Street } \\ \text { Total } \end{array}$ | LT | ST | RT | UT | $\begin{array}{\|l\|} \hline \text { N/B } \\ \text { Tot } \end{array}$ | LT | ST | RT | UT | $\begin{aligned} & \hline \mathrm{S} / \mathrm{B} \\ & \text { Tot } \end{aligned}$ | $\begin{array}{\|l\|} \hline \text { Street } \\ \text { Total } \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline \text { Grand } \\ \text { Total } \end{array}$ |
| 0700-0800 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 16 | 0 | 0 | 2 |  | 3 | 19 | 19 |
| 0800-0900 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 14 | 0 | 0 | 1 | 0 | 1 | 15 | 15 |
| 1600-1700 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 3 | 40 | 0 | 0 | 7 | 47 | 0 | 0 | 21 | 0 | 21 | 68 | 71 |
| 1700-1800 | 0 | 0 | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 5 | 37 | 0 | 0 | 13 | 50 | 0 | 0 | 16 | 0 | 16 | 66 | 71 |
| Totals | 1 |  | 7 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 8 | 107 | 0 | 0 | 20 | 127 | 0 |  | 40 | 1 | 41 | 168 | 176 |

Equivalent 12 \& 24-hour Vehicle Volumes Including the Annual Average Daily Traffic (AADT) Factor Applicable to the Day and Month of the Turning Movement Count

Expansion factors are applied exclusively to standard weekday 8-hour turning movement counts conducted during the hours of $\mathbf{0 7 0 0 h}=1000 \mathrm{~h}, 1130 \mathrm{~h}-1330 \mathrm{~h}$ and $1500 \mathrm{~h}-1800 \mathrm{~h}$


AADT and expansion factors provided by the City of Ottawa

| AM Peak | Fa | r |  | 0.5 |  |  |  |  |  |  |  |  |  |  | t | urly |  | Vo | e | tw | n 070 | 00h \& | 900h |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AM Peak Hr | LT | ST | RT | UT | TOT | LT | ST | RT | UT | TOT | S.TOT | LT | ST | RT | UT | TOT | LT | ST | RT | UT | TOT | S.TOT | G.TOT |
| 0730-0830 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 | 0 | 17 | 0 | 0 | 3 | 1 | 4 | 21 | 21 |


| PM Peak Hour Factor $\quad$ d |  |  |  |  |  | LT | ST | RT | UT |  | S.TOT | LT | Highest Hourly Vehicle Volume Between 1600h \& 1800h |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PM Peak Hr | LT | ST | RT | UT | TOT |  |  |  |  |  |  |  | ST | RT | UT | TOT | LT | ST | RT | UT | TOT | S.TOT | G.TOT |
| 1630-1730 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 45 | 0 | 0 | 8 | 53 | 0 | 0 | 18 | 0 | 18 | 71 | 73 |

Comments:
Through traffic on Clyde Avenue was not counted. All bicycle movements counted. A few northbound U-turning vehicles were unable to complete their turn in one movement as the driver had to reverse to complete a three point turn. Some pedestrians walk along the narrow median.

## Notes:

1. Includes all vehicle types except bicycles, electric bicycles, and electric scooters.
2.When expansion and AADT factors are applied, the results will differ slightly due to rounding.

Turning Movement Count
Bicycle Summary
Flow Diagram


## Comments:

Southbound traffic on Clyde Avenue was counted to provide a point of reference. Northbound traffic on Clyde Avenue, traffic entering/exiting the Walmart access and pedestrian/cycling activity along the east side of Clyde Avenue were not counted. There is an exit from the apartments mid-way between \#1356 and \#1366 Clyde Avenue. The apartments are located immediately west of this plaza. There were a few bicycles using the sidewalk on the east side of Clyde Avenue - none used the road. A few pedestrians walk along the narrow median.

Turning Movement Count Summary, AM and PM Peak Hour

Flow Diagrams

## Clyde Avenue \& 1356/1366 South Access



Turning Movement Count
Pedestrian Crossings Summary and Flow Diagram

## Clyde Avenue \& 1356/1366 South Access



| Time Period | West Side Crossing <br> $1356 / 1366$ Clyde Ave. (S) | East Side Crossing <br> Walmart | Street <br> Total | South Side Crossing <br> Clyde Ave. | North Side Crossing <br> Clyde Ave. | Street <br> Total | Grand <br> Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{0 7 0 0 - 0 8 0 0}$ | 9 | 0 | 9 | 3 | 0 | 3 | 12 |
| $0800-0900$ | 11 | 0 | 11 | 2 | 4 | 6 | 17 |
| $1600-1700$ | 18 | 0 | 18 | 4 | 8 | 12 | 30 |
| $1700-1800$ | 9 | 0 | 9 | 1 | 7 | 8 | 17 |
| Totals | 47 | 0 | 47 | 10 | 19 | 29 | 76 |

## Comments:

Southbound traffic on Clyde Avenue was counted to provide a point of reference. Northbound traffic on Clyde Avenue, traffic entering/exiting the Walmart access and pedestrian/cycling activity along the east side of Clyde Avenue were not counted. There is an exit from the apartments mid-way between \#1356 and \#1366 Clyde Avenue. The apartments are located immediately west of this plaza. There were a few bicycles using the sidewalk on the east side of Clyde Avenue - none used the road. A few pedestrians walk along the narrow median.

## Clyde Avenue \& 1356/1366 South Access



Equivalent 12 \& 24-hour Vehicle Volumes Including the Annual Average Daily Traffic (AADT) Factor Applicable to the Day and Month of the Turning Movement Count

Expansion factors are applied exclusively to standard weekday 8-hour turning movement counts conducted during the hours of $0700 \mathrm{~h}=1000 \mathrm{~h}, 1130 \mathrm{~h}=1330 \mathrm{~h}$ and $1500 \mathrm{~h}=1800 \mathrm{~h}$

| Equivalent 12-hour vehicle volumes. These volumes are calculated by multiplying the 8-hour totals by the $8 \Rightarrow 12$ expansion factor of 1.39 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Equ. 12 Hr | n/a |  |  |  | n/a | n/a |  | $\mathrm{n} / \mathrm{a}$ |  | n/a | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | n/a |  | n/a | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | n/a | n/a |
| Average daily 12-hour vehicle volumes. These volumes are calculated by multiplying the equivalent 12-hour totals by the AADT factor of: 1.0 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AADT 12-hr | n/a |  |  |  | n/a | n/a |  |  |  | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | n/a | n/a |
| 24-Hour AADT. These volumes are calculated by multiplying the average daily |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AADT 24 Hr | n/a | n/a | n/a n/a |  | n/a | n/a |  |  | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | n/a | n/a | n/a | $\mathrm{n} / \mathrm{a}$ | n/a | n/a | n/a | n/a | n/a | n/a | /a |

AADT and expansion factors provided by the City of Ottawa

| AM Peak | Fa | r |  |  |  |  |  |  |  |  |  |  |  |  | st H | 兂 |  | Volur |  |  | O |  | - |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AM Peak Hr | LT | ST | RT | UT | TOT | LT | ST | RT | UT | TOT | S.TOT | LT | ST | RT | UT | TOT | LT | ST | RT | UT | TOT | S.TOT | G.TOT |
| 0800-0900 | 0 | 0 | 38 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 877 | 11 | 0 | 888 | 888 | 926 |


| PM Peak Hour Factor $\Rightarrow$ |  |  |  |  |  | LT | ST | RT | UT | TOT S.TOT |  |  | Highest Hourly Vehicle Volume Between 1600h \& 1800h |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PM Peak Hr | LT | ST | RT | UT | TOT |  |  |  |  |  |  | LT | ST | RT | UT | TOT | LT | ST | RT | UT | TOT | S.TOT | G.TOT |
| 1645-1745 | 0 | 0 | 73 | 0 | 73 | 0 | 0 | 0 | 0 | 0 | 73 | 0 | 0 | 0 | 0 | 0 | 0 | 911 | 11 | 0 | 922 | 922 | 995 |

## Comments:

Southbound traffic on Clyde Avenue was counted to provide a point of reference. Northbound traffic on Clyde Avenue, traffic entering/exiting the
Walmart access and pedestrian/cycling activity along the east side of Clyde Avenue were not counted. There is an exit from the apartments mid-way between \#1356 and \#1366 Clyde Avenue. The apartments are located immediately west of this plaza. There were a few bicycles using the sidewalk on the east side of Clyde Avenue - none used the road. A few pedestrians walk along the narrow median.

## Notes:

1. Includes all vehicle types except bicycles, electric bicycles, and electric scooters.
2.When expansion and AADT factors are applied, the results will differ slightly due to rounding.

## MERIVALE RD/LOTTA AVE @ CLYDE AVE

Survey Date: Wednesday, April 13, 2016

Clyde ave
Northbound Southbound

| TOTAL: | 337 | 6396 | 4571 | 11344 | 496 | 6171 | 156 | 6829 | 18173 | 320 | 367 | 291 | 978 | 4575 | 566 | 983 | 6124 | 7102 | 25275 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Note: U-Turns are included in Totals.
Comment:

Transportation Services - Traffic Services Turning Movement Count - Cyclist Volume Report

## MERIVALE RD/LOTTA AVE @ CLYDE AVE

Count Date: Wednesday, April 13, 2016
Start Time: 07:00

| Time Period | CLYDE AVE |  |  | MERIVALE RD/LOTTA AVE |  |  | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Northbound | Southbound | Street Total | Eastbound | Westbound | Street Total |  |
| 07:00 08:00 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 08:00 09:00 | 1 | 0 | 1 | 1 | 1 | 2 | 3 |
| 09:00 10:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 11:30 12:30 | 0 | 1 | 1 | 1 | 0 | 1 | 2 |
| 12:30 13:30 | 2 | 0 | 2 | 0 | 0 | 0 | 2 |
| 15:00 16:00 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 16:00 17:00 | 1 | 0 | 1 | 0 | 1 | 1 | 2 |
| 17:00 18:00 | 0 | 1 | 1 | 0 | 5 | 5 | 6 |
| Total .......... | 5 | 3 | 8 | 2 | 8 | 10 | 18 |

Comment:

## MERIVALE RD/LOTTA AVE @ CLYDE AVE

Survey Date: Wednesday, April 13, 2016
$\begin{array}{cc}\text { WO\#: } & 35504 \\ \text { Device: } & \text { Miovision }\end{array}$


Comments

## MERIVALE RD/LOTTA AVE @ CLYDE AVE

Survey Date: Wednesday, April 13, 2016


Heavy Vehicles include Buses, Single-Unit Trucks and Articulated Trucks. Further, they ARE included in the Turning Movement Count Summary.

Transportation Services - Traffic Services

## Turning Movement Count - Pedestrian Volume Report

MERIVALE RD/LOTTA AVE @ CLYDE AVE
Count Date: Wednesday, April 13, 2016 Start Time: 07:00

| Time Period |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | NB Approach <br> (E or W Crossing) | SB Approach <br> (E or W Crossing) | Total | EB Approach <br> (N or S Crossing) | WB Approach <br> (N or S Crossing) | Total | Grand Total |

Comment:

Transportation Services - Traffic Services

## Turning Movement Count - Full Study Summary Report

## MERIVALE RD/LOTTA AVE @ CLYDE AVE

Survey Date: Wednesday, April 13, 2016

| Total Observed U-Turns |  |  |  |
| :---: | :--- | :--- | :--- |
| Northbound: | 40 | Southbound: | 6 |
| Eastbound: | 0 | Westbound: | 0 |

AADT Factor
.90

Full Study
CLYDE AVE

|  | Northbound |  |  |  | Southbound |  |  |  |  | Eastbound |  |  |  | Westbound |  |  |  | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | LT | ST | RT | $\begin{array}{r} \text { NB } \\ \text { TOT } \end{array}$ | LT | ST | RT | $\begin{array}{r} \mathrm{SB} \\ \mathrm{TOT} \end{array}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | LT | ST | RT | $\begin{array}{r} \text { EB } \\ \text { TOT } \end{array}$ | LT | ST | RT | $\begin{aligned} & \text { WB } \\ & \text { TOT } \end{aligned}$ |  |  |
| 07:00 08:00 | 16 | 674 | 566 | 1256 | 20 | 538 | 7 | 565 | 1821 | 14 | 27 | 14 | 55 | 312 | 20 | 56 | 388 | 443 | 2264 |
| 08:00 09:00 | 0 | 861 | 667 | 1528 | 44 | 697 | 7 | 748 | 2276 | 31 | 68 | 19 | 118 | 390 | 34 | 67 | 491 | 609 | 2885 |
| 09:00 10:00 | 49 | 656 | 443 | 1148 | 50 | 710 | 23 | 783 | 1931 | 34 | 35 | 29 | 98 | 451 | 31 | 91 | 573 | 671 | 2602 |
| 11:30 12:30 | 70 | 824 | 519 | 1413 | 87 | 917 | 37 | 1041 | 2454 | 65 | 52 | 56 | 173 | 578 | 70 | 122 | 770 | 943 | 3397 |
| 12:30 13:30 | 64 | 890 | 597 | 1551 | 78 | 912 | 29 | 1019 | 2570 | 55 | 47 | 57 | 159 | 571 | 67 | 159 | 797 | 956 | 3526 |
| 15:00 16:00 | 55 | 855 | 540 | 1450 | 60 | 771 | 20 | 851 | 2301 | 47 | 40 | 42 | 129 | 708 | 87 | 162 | 957 | 1086 | 3387 |
| 16:00 17:00 | 25 | 845 | 628 | 1498 | 69 | 776 | 13 | 858 | 2356 | 37 | 41 | 42 | 120 | 764 | 127 | 155 | 1046 | 1166 | 3522 |
| 17:00 18:00 | 58 | 791 | 611 | 1460 | 88 | 850 | 20 | 958 | 2418 | 37 | 57 | 32 | 126 | 801 | 130 | 171 | 1102 | 1228 | 3646 |
| Sub Total | 337 | 6396 | 4571 | 11304 | 496 | 6171 | 156 | 6823 | 18127 | 320 | 367 | 291 | 978 | 4575 | 566 | 983 | 6124 | 7102 | 25229 |
| U Turns |  |  |  | 40 |  |  |  | 6 | 46 |  |  |  | 0 |  |  |  | 0 | 0 | 46 |
| Total | 337 | 6396 | 4571 | 11344 | 496 | 6171 | 156 | 6829 | 18173 | 320 | 367 | 291 | 978 | 4575 | 566 | 983 | 6124 | 7102 | 25275 |
| EQ 12Hr | 468 | 8890 | 6354 | 15768 | 689 | 8578 | 217 | 9492 | 25260 | 445 | 510 | 404 | 1359 | 6359 | 787 | 1366 | 8512 | 9871 | 35131 |

Note: These values are calculated by multiplying the totals by the appropriate expansion factor.

| AVG 12Hr | 422 | 8001 | 5718 | 14191 | 620 | 7720 | 195 | 8543 | 22734 | 400 | 459 | 364 | 1223 | 5723 | 708 | 1230 | 7661 | 8884 | 31618 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Note: These volumes are calculated by multiplying the Equivalent 12 hr . totals by the AADT factor. . 90 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| AVG 24 Hr | 552 | 10482 | 7491 | 18591 | 813 | 10113 | 256 | 11191 | 29782 | 524 | 601 | 477 | 1603 | 7498 | 928 | 1611 | 10036 | 11639 | 41421 |

Note: These volumes are calculated by multiplying the Average Daily 12 hr. totals by 12 to 24 expansion factor. 1.31

## Comments:

Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

Survey Date: Wednesday, April 13, 2016
Start Time: 07:00

WO No: 35504
Device: Miovision


Comments

## Transportation Services - Traffic Services

Turning Movement Count - Full Study Peak Hour Diagram

## MERIVALE RD/LOTTA AVE @ CLYDE AVE

Survey Date: Wednesday, April 13, 2016
Start Time: 07:00

WO No: 35504
Device: Miovision


Comments

Survey Date: Wednesday, April 13, 2016
Start Time: 07:00

WO No: 35504
Device: Miovision


Comments

## Transportation Services - Traffic Services

Turning Movement Count - Full Study Peak Hour Diagram

## MERIVALE RD/LOTTA AVE @ CLYDE AVE

Survey Date: Wednesday, April 13, 2016
Start Time: 07:00

WO No: 35504
Device: Miovision


Comments

## Turning Movement Count - 15 Min U-Turn Total Report MERIVALE RD/LOTTA AVE @ CLYDE AVE

| Survey |  | Wednesday, April 13, 2016 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Time Period |  | Northbound U-Turn Total | Southbound U-Turn Total | Eastbound U-Turn Total | Westbound <br> U-Turn Total | Total |
| 07:00 | 07:15 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 07:30 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 07:45 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 08:00 | 1 | 0 | 0 | 0 | 1 |
| 08:00 | 08:15 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 08:30 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 08:45 | 0 | 1 | 0 | 0 | 1 |
| 08:45 | 09:00 | 1 | 1 | 0 | 0 | 2 |
| 09:00 | 09:15 | 1 | 0 | 0 | 0 | 1 |
| 09:15 | 09:30 | 1 | 0 | 0 | 0 | 1 |
| 09:30 | 09:45 | 2 | 0 | 0 | 0 | 2 |
| 09:45 | 10:00 | 1 | 0 | 0 | 0 | 1 |
| 11:30 | 11:45 | 2 | 0 | 0 | 0 | 2 |
| 11:45 | 12:00 | 2 | 0 | 0 | 0 | 2 |
| 12:00 | 12:15 | 1 | 0 | 0 | 0 | 1 |
| 12:15 | 12:30 | 2 | 2 | 0 | 0 | 4 |
| 12:30 | 12:45 | 0 | 0 | 0 | 0 | 0 |
| 12:45 | 13:00 | 6 | 0 | 0 | 0 | 6 |
| 13:00 | 13:15 | 0 | 0 | 0 | 0 | 0 |
| 13:15 | 13:30 | 4 | 0 | 0 | 0 | 4 |
| 15:00 | 15:15 | 1 | 0 | 0 | 0 | 1 |
| 15:15 | 15:30 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 15:45 | 1 | 0 | 0 | 0 | 1 |
| 15:45 | 16:00 | 1 | 0 | 0 | 0 | 1 |
| 16:00 | 16:15 | 2 | 0 | 0 | 0 | 2 |
| 16:15 | 16:30 | 2 | 0 | 0 | 0 | 2 |
| 16:30 | 16:45 | 2 | 0 | 0 | 0 | 2 |
| 16:45 | 17:00 | 1 | 0 | 0 | 0 | 1 |
| 17:00 | 17:15 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 17:30 | 1 | 1 | 0 | 0 | 2 |
| 17:30 | 17:45 | 2 | 1 | 0 | 0 | 3 |
| 17:45 | 18:00 | 3 | 0 | 0 | 0 | 3 |
|  |  | 40 | 6 | 0 | 0 | 46 |

Turning Movement Count - Study Results
ERINDALE DR @ BASELINE RD

Survey Date: Tuesday, July 24, 2018
Start Time: 07:00

WO No:
Device: Miovision

Full Study Diagram


Turning Movement Count - Study Results
ERINDALE DR @ BASELINE RD

Survey Date: Tuesday, July 24, 2018
Start Time: 07:00

| WO No: | 37994 |
| :--- | :---: |
| Device: | Miovision |

## Full Study Peak Hour Diagram

## Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

## ERINDALE DR @ BASELINE RD

Survey Date: Tuesday, July 24, 2018
Start Time: 07:00

WO No:
37994
Device: Miovision


Comments

## Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

## ERINDALE DR @ BASELINE RD

Survey Date: Tuesday, July 24, 2018
Start Time: 07:00

WO No:
37994
Device: Miovision


Comments

## Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

## ERINDALE DR @ BASELINE RD

Survey Date: Tuesday, July 24, 2018
Start Time: 07:00

WO No:
37994
Device: Miovision


Comments

Survey Date: Tuesday, July 24, 2018
Start Time: 07:00
WO No:
37994
Device: Miovision

## Full Study Summary (8 HR Standard)

Survey Date: Tuesday, July 24, 2018

## Total Observed U-Turns

AADT Factor
Northbound: $0 \quad$ Southbound: 0
1.25

Eastbound: 6 Westbound: 2
ERINDALE DR
BASELINE RD

|  | Northbound |  |  |  | Southbound |  |  |  |  | Eastbound |  |  |  | Westbound |  |  |  | $\begin{aligned} & \text { STR } \\ & \text { TOT } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Grann } \\ \text { Total } \\ \hline \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | LT | ST | RT | $\begin{array}{r} \text { NB } \\ \text { TOT } \\ \hline \end{array}$ | LT | ST | RT | $\begin{array}{r} \text { SB } \\ \text { TOT } \\ \hline \end{array}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \\ & \hline \end{aligned}$ | LT | ST | RT | $\begin{array}{r} \text { EB } \\ \text { TOT } \\ \hline \end{array}$ | LT | ST | RT | $\begin{aligned} & \text { WB } \\ & \text { TOT } \end{aligned}$ |  |  |
| 07:00 08:00 | 0 | 0 | 0 | 0 | 23 | 0 | 46 | 69 | 69 | 15 | 1278 | 0 | 1293 | 0 | 562 | 29 | 591 | 1884 | 1953 |
| 08:00 09:00 | 0 | 0 | 0 | 0 | 13 | 0 | 54 | 67 | 67 | 41 | 1306 | 0 | 1347 | 0 | 713 | 37 | 750 | 2097 | 2164 |
| 09:00 10:00 | 0 | 0 | 0 | 0 | 20 | 0 | 58 | 78 | 78 | 58 | 1177 | 0 | 1235 | 0 | 726 | 27 | 753 | 1988 | 2066 |
| 11:30 12:30 | 0 | 0 | 0 | 0 | 24 | 0 | 61 | 85 | 85 | 61 | 1006 | 0 | 1067 | 0 | 906 | 53 | 959 | 2026 | 2111 |
| 12:30 13:30 | 0 | 0 | 0 | 0 | 29 | 0 | 64 | 93 | 93 | 49 | 970 | 0 | 1019 | 0 | 909 | 44 | 953 | 1972 | 2065 |
| 15:00 16:00 | 0 | 0 | 0 | 0 | 21 | 0 | 67 | 88 | 88 | 31 | 1153 | 0 | 1184 | 0 | 1298 | 54 | 1352 | 2536 | 2624 |
| 16:00 17:00 | 0 | 0 | 0 | 0 | 21 | 0 | 79 | 100 | 100 | 9 | 1352 | 0 | 1361 | 0 | 1385 | 69 | 1454 | 2815 | 2915 |
| 17:00 18:00 | 0 | 0 | 0 | 0 | 29 | 0 | 58 | 87 | 87 | 21 | 1169 | 0 | 1190 | 0 | 1325 | 70 | 1395 | 2585 | 2672 |
| Sub Total | 0 | 0 | 0 | 0 | 180 | 0 | 487 | 667 | 667 | 285 | 9411 | 0 | 9696 | 0 | 7824 | 383 | 8207 | 17903 | 18570 |
| U Turns |  |  |  | 0 |  |  |  | 0 | 0 |  |  |  | 6 |  |  |  | 2 | 8 | 8 |
| Total | 0 | 0 | 0 | 0 | 180 | 0 | 487 | 667 | 667 | 285 | 9411 | 0 | 9702 | 0 | 7824 | 383 | 8209 | 17911 | 18578 |
| EQ 12Hr |  |  |  |  | 250 |  | 677 | 927 | 927 | 396 | 3081 |  | 3486 |  |  | 532 | 11411 | 24896 | 2582 |

Note: These values are calculated by multiplying the totals by the appropriate expansion factor. $\mathbf{1 . 3 9}$

| AVG 12Hr | 0 | 0 | 0 | 0 | 225 | 0 | 609 | 834 | 834 | 357 | 11773 | 0 | 12137 | 0 | 9788 | 479 | 10269 | 22406 | 23241 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Note: These volumes are calculated by multiplying the Equivalent 12 hr . totals by the AADT factor.
0.9

| AVG 24Hr | 0 | 0 | 0 | 0 | 295 | 0 | 798 | 1093 | 1093 | 467 | 15423 | 0 | 15900 | 0 | 12822 | 628 | 13453 | 29353 | 30446 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Note: These volumes are calculated by multiplying the Average Daily 12 hr . totals by 12 to 24 expansion factor.
Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

## (()ttawa <br> Transportation Services - Traffic Services <br> Turning Movement Count - Study Results ERINDALE DR @ BASELINE RD

Survey Date: Tuesday, July 24, 2018
WO No:
Device:
37994
Start Time: 07:00

## Full Study 15 Minute Increments

## ERINDALE DR

BASELINE RD
Northbound Southbound Eastbound Westbound

| Time Period |  | Northbound |  |  | Southbound |  |  |  |  | Eastbound |  |  |  |  | Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LT | ST | RT | $\begin{gathered} \mathrm{N} \\ \text { TOT } \end{gathered}$ | LT | ST | RT | $\begin{gathered} \mathrm{S} \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | LT | ST | RT | $\begin{gathered} \text { E } \\ \text { TOT } \end{gathered}$ | LT | ST | RT | $\begin{gathered} \text { w } \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | Grand Total |
| 07:00 | 07:15 | 0 | 0 | 0 | 0 | 5 | 0 | 8 | 13 | 20 | 2 | 274 | 0 | 276 | 0 | 105 | 5 | 110 | 20 | 399 |
| 07:15 | 07:30 | 0 | 0 | 0 | 0 | 8 | 0 | 9 | 17 | 30 | 3 | 300 | 0 | 303 | 0 | 128 | 10 | 138 | 30 | 458 |
| 07:30 | 07:45 | 0 | 0 | 0 | 0 | 5 | 0 | 11 | 16 | 28 | 4 | 347 | 0 | 351 | 0 | 184 | 8 | 192 | 28 | 559 |
| 07:45 | 08:00 | 0 | 0 | 0 | 0 | 5 | 0 | 18 | 23 | 35 | 6 | 357 | 0 | 363 | 0 | 145 | 6 | 151 | 35 | 537 |
| 08:00 | 08:15 | 0 | 0 | 0 | 0 | 4 | 0 | 16 | 20 | 38 | 9 | 362 | 0 | 371 | 0 | 199 | 9 | 208 | 38 | 599 |
| 08:15 | 08:30 | 0 | 0 | 0 | 0 | 2 | 0 | 11 | 13 | 30 | 10 | 315 | 0 | 325 | 0 | 160 | 7 | 167 | 30 | 505 |
| 08:30 | 08:45 | 0 | 0 | 0 | 0 | 2 | 0 | 13 | 15 | 39 | 13 | 321 | 0 | 334 | 0 | 181 | 11 | 192 | 39 | 541 |
| 08:45 | 09:00 | 0 | 0 | 0 | 0 | 5 | 0 | 14 | 19 | 38 | 9 | 308 | 0 | 317 | 0 | 173 | 10 | 183 | 38 | 519 |
| 09:00 | 09:15 | 0 | 0 | 0 | 0 | 5 | 0 | 18 | 23 | 47 | 19 | 295 | 0 | 314 | 0 | 211 | 5 | 216 | 47 | 553 |
| 09:15 | 09:30 | 0 | 0 | 0 | 0 | 5 | 0 | 13 | 18 | 42 | 20 | 313 | 0 | 334 | 0 | 174 | 4 | 178 | 42 | 530 |
| 09:30 | 09:45 | 0 | 0 | 0 | 0 | 5 | 0 | 14 | 19 | 37 | 10 | 295 | 0 | 305 | 0 | 180 | 8 | 188 | 37 | 512 |
| 09:45 | 10:00 | 0 | 0 | 0 | 0 | 5 | 0 | 13 | 18 | 37 | 9 | 274 | 0 | 284 | 0 | 161 | 10 | 171 | 37 | 473 |
| 11:30 | 11:45 | 0 | 0 | 0 | 0 | 4 | 0 | 16 | 20 | 61 | 24 | 253 | 0 | 277 | 0 | 208 | 17 | 225 | 61 | 522 |
| 11:45 | 12:00 | 0 | 0 | 0 | 0 | 10 | 0 | 12 | 22 | 45 | 11 | 238 | 0 | 249 | 0 | 226 | 12 | 238 | 45 | 509 |
| 12:00 | 12:15 | 0 | 0 | 0 | 0 | 7 | 0 | 16 | 23 | 44 | 11 | 252 | 0 | 263 | 0 | 236 | 10 | 246 | 44 | 532 |
| 12:15 | 12:30 | 0 | 0 | 0 | 0 | 3 | 0 | 17 | 20 | 49 | 15 | 263 | 0 | 278 | 0 | 236 | 14 | 250 | 49 | 548 |
| 12:30 | 12:45 | 0 | 0 | 0 | 0 | 9 | 0 | 14 | 23 | 48 | 15 | 266 | 0 | 281 | 0 | 245 | 10 | 255 | 48 | 559 |
| 12:45 | 13:00 | 0 | 0 | 0 | 0 | 10 | 0 | 20 | 30 | 53 | 15 | 241 | 0 | 256 | 0 | 250 | 8 | 259 | 53 | 545 |
| 13:00 | 13:15 | 0 | 0 | 0 | 0 | 6 | 0 | 13 | 19 | 45 | 14 | 230 | 0 | 246 | 0 | 202 | 12 | 214 | 45 | 479 |
| 13:15 | 13:30 | 0 | 0 | 0 | 0 | 4 | 0 | 17 | 21 | 40 | 5 | 233 | 0 | 238 | 0 | 212 | 14 | 226 | 40 | 485 |
| 15:00 | 15:15 | 0 | 0 | 0 | 0 | 6 | 0 | 12 | 18 | 35 | 10 | 256 | 0 | 266 | 0 | 289 | 7 | 296 | 35 | 580 |
| 15:15 | 15:30 | 0 | 0 | 0 | 0 | 5 | 0 | 18 | 23 | 53 | 13 | 264 | 0 | 278 | 0 | 328 | 17 | 345 | 53 | 646 |
| 15:30 | 15:45 | 0 | 0 | 0 | 0 | 7 | 0 | 15 | 22 | 43 | 4 | 306 | 0 | 310 | 0 | 343 | 17 | 360 | 43 | 692 |
| 15:45 | 16:00 | 0 | 0 | 0 | 0 | 3 | 0 | 22 | 25 | 42 | 4 | 327 | 0 | 331 | 0 | 338 | 13 | 351 | 42 | 707 |
| 16:00 | 16:15 | 0 | 0 | 0 | 0 | 2 | 0 | 22 | 24 | 36 | 1 | 346 | 0 | 348 | 0 | 340 | 11 | 351 | 36 | 723 |
| 16:15 | 16:30 | 0 | 0 | 0 | 0 | 4 | 0 | 15 | 19 | 37 | 2 | 340 | 0 | 342 | 0 | 355 | 16 | 371 | 37 | 732 |
| 16:30 | 16:45 | 0 | 0 | 0 | 0 | 8 | 0 | 17 | 25 | 58 | 3 | 353 | 0 | 356 | 0 | 341 | 30 | 372 | 58 | 753 |
| 16:45 | 17:00 | 0 | 0 | 0 | 0 | 7 | 0 | 25 | 32 | 47 | 3 | 313 | 0 | 316 | 0 | 349 | 12 | 361 | 47 | 709 |
| 17:00 | 17:15 | 0 | 0 | 0 | 0 | 10 | 0 | 15 | 25 | 47 | 4 | 326 | 0 | 330 | 0 | 360 | 18 | 378 | 47 | 733 |
| 17:45 | 18:00 | 0 | 0 | 0 | 0 | 10 | 0 | 9 | 19 | 46 | 8 | 265 | 0 | 273 | 0 | 314 | 19 | 333 | 46 | 625 |
| 17:15 | 17:30 | 0 | 0 | 0 | 0 | 3 | 0 | 14 | 17 | 42 | 5 | 309 | 0 | 314 | 0 | 342 | 20 | 362 | 42 | 693 |
| 17:30 | 17:45 | 0 | 0 | 0 | 0 | 6 | 0 | 20 | 26 | 43 | 4 | 269 | 0 | 273 | 0 | 309 | 13 | 322 | 43 | 621 |
| Total: |  | 0 | 0 | 0 | 0 | 180 | 0 | 487 | 667 | 1335 | 285 | 9411 | 0 | 9702 | 0 | 7824 | 383 | 8209 | 1335 | 18,578 |

Note: U-Turns are included in Totals.

## Transportation Services - Traffic Services

Turning Movement Count - Study Results
ERINDALE DR @ BASELINE RD

| Survey Date: Tuesday, July 24, 2018 | Wo No: | 37994 |
| :---: | :---: | :---: |
| Start Time: $07: 00$ | Device: | Miovision |

Full Study Cyclist Volume
ERINDALE DR
BASELINE RD

| Time Period |  | Northbound | Southbound | Street Total | Eastbound | Westbound | Street Total | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00 | 07:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 07:30 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 07:30 | 07:45 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 07:45 | 08:00 | 0 | 0 | 0 | 1 | 1 | 2 | 2 |
| 08:00 | 08:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 08:30 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 08:30 | 08:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 09:00 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 09:00 | 09:15 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 09:15 | 09:30 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 09:30 | 09:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 10:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 11:30 | 11:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 12:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 | 12:15 | 0 | 2 | 2 | 2 | 2 | 4 | 6 |
| 12:15 | 12:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:30 | 12:45 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 12:45 | 13:00 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 13:00 | 13:15 | 0 | 0 | 0 | 5 | 1 | 6 | 6 |
| 13:15 | 13:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 15:30 | 0 | 0 | 0 | 1 | 2 | 3 | 3 |
| 15:30 | 15:45 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 15:45 | 16:00 | 0 | 2 | 2 | 1 | 1 | 2 | 4 |
| 16:00 | 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 16:30 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 16:30 | 16:45 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 16:45 | 17:00 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 17:00 | 17:15 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 17:45 | 18:00 | 0 | 0 | 0 | 0 | 2 | 2 | 2 |
| 17:15 | 17:30 | 0 | 0 | 0 | 1 | 1 | 2 | 2 |
| 17:30 | 17:45 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| Total |  | 0 | 4 | 4 | 20 | 18 | 38 | 42 |

Turning Movement Count - Study Results
ERINDALE DR @ BASELINE RD

| Survey Date: Tuesday, July 24, 2018 | Wo No: | 37994 |
| :---: | :---: | :---: |
| Start Time: $07: 00$ | Device: | Miovision |

Full Study Pedestrian Volume<br>ERINDALE DR<br>bASELINE RD

| Time Period |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NB Approach <br> (E or W Crossing) | SB Approach <br> (E or W Crossing) | Total | EB Approach <br> (N or S Crossing) | WB Approach <br> (N or S Crossing) | Total |


| 07:00 07:15 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 07:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 07:45 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 07:45 08:00 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 08:00 08:15 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 08:15 08:30 | 0 | 2 | 2 | 0 | 0 | 0 | 2 |
| 08:30 08:45 | 0 | 1 | , | 0 | 0 | 0 | 1 |
| 08:45 09:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 09:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 09:30 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 09:30 09:45 | 0 | 2 | 2 | 0 | 0 | 0 | 2 |
| 09:45 10:00 | 0 | 1 | 1 | 1 | 0 | 1 | 2 |
| 11:30 11:45 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 11:45 12:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 12:15 | 0 | 3 | 3 | 0 | 0 | 0 | 3 |
| 12:15 12:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:30 12:45 | 0 | 0 | 0 | 2 | 0 | 2 | 2 |
| 12:45 13:00 | 0 | 2 | 2 | 0 | 0 | 0 | 2 |
| 13:00 13:15 | 0 | 1 | 1 | 1 | 2 | 3 | 4 |
| 13:15 13:30 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 15:00 15:15 | 0 | 1 | 1 | 0 | 2 | 2 | 3 |
| 15:15 15:30 | 0 | 2 | 2 | 1 | 0 | 1 | 3 |
| 15:30 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 16:00 | 0 | 3 | 3 | 1 | 0 | 1 | 4 |
| 16:00 16:15 | 0 | 3 | 3 | 1 | 0 | 1 | 4 |
| 16:15 16:30 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 16:30 16:45 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 16:45 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 18:00 | 0 | 2 | 2 | 0 | 0 | 0 | 2 |
| 17:15 17:30 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 17:30 17:45 | 0 | 1 | 1 | 1 | 0 | 1 | 2 |
| Total .......... | 0 | 30 | 30 | 12 | 4 | 16 | 46 |

# Transportation Services - Traffic Services 

## Turning Movement Count - Study Results ERINDALE DR @ BASELINE RD

Survey Date: Tuesday, July 24, 2018
Start Time: 07:00

WO No:
37994
Device:
Miovision

## Full Study Heavy Vehicles

ERINDALE DR
Northbound
Southbound
ST RT $\begin{gathered}\mathrm{N} \\ \text { TOT }\end{gathered}$

| Time P | Period | LT | ST | RT | $\stackrel{N}{\mathrm{~N}} \underset{\mathrm{TOT}}{ }$ | LT | ST | RT | $\begin{gathered} \mathrm{s} \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | LT | ST | RT | $\underset{\text { TOT }}{\text { E }}$ | LT | ST | RT | $\begin{gathered} w \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | $\begin{aligned} & \text { Grand } \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00 | 07:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 9 | 0 | 13 | 0 | 4 | 2 | 15 | 28 | 15 |
| 07:15 | 07:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 14 | 0 | 9 | 1 | 15 | 29 | 15 |
| 07:30 | 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 5 | 0 | 16 | 0 | 10 | 0 | 15 | 31 | 16 |
| 07:45 | 08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 5 | 5 | 0 | 6 | 0 | 15 | 0 | 6 | 2 | 14 | 29 | 17 |
| 08:00 | 08:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 | 0 | 19 | 0 | 7 | 0 | 19 | 38 | 19 |
| 08:15 | 08:30 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 10 | 0 | 20 | 0 | 9 | 1 | 20 | 40 | 21 |
| 08:30 | 08:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 0 | 12 | 0 | 4 | 0 | 12 | 24 | 12 |
| 08:45 | 09:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 13 | 0 | 8 | 1 | 14 | 27 | 14 |
| 09:00 | 09:15 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 2 | 0 | 12 | 0 | 19 | 0 | 6 | 0 | 19 | 38 | 20 |
| 09:15 | 09:30 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 1 | 6 | 0 | 14 | 0 | 7 | 0 | 14 | 28 | 15 |
| 09:30 | 09:45 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | - | 3 | 0 | 10 | 0 | 13 | 0 | 3 | 2 | 16 | 29 | 16 |
| 09:45 | 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 4 | 0 | 10 | 0 | 6 | 1 | 11 | 21 | 11 |
| 11:30 | 11:45 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 4 | 0 | 13 | 0 | 9 | 0 | 14 | 27 | 14 |
| 11:45 | 12:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 7 | 0 | 18 | 0 | 11 | 1 | 19 | 37 | 19 |
| 12:00 | 12:15 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 2 | 0 | 4 | 0 | 8 | 0 | 3 | 0 | 8 | 16 | 9 |
| 12:15 | 12:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 1 | 5 | 0 | 12 | 0 | 6 | 1 | 12 | 24 | 13 |
| 12:30 | 12:45 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 2 | 0 | 8 | 0 | 15 | 0 | 6 | 0 | 15 | 30 | 16 |
| 12:45 | 13:00 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 2 | 2 | 0 | 3 | 0 | 7 | 0 | 3 | 1 | 7 | 14 | 8 |
| 13:00 | 13:15 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 2 | 2 | 0 | 5 | 0 | 13 | 0 | 7 | 0 | 13 | 26 | 14 |
| 13:15 | 13:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 4 | 0 | 8 | 0 | 4 | 1 | 9 | 17 | 9 |
| 15:00 | 15:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 10 | 0 | 8 | 0 | 10 | 20 | 10 |
| 15:15 | 15:30 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 | 2 | 1 | 7 | 0 | 13 | 0 | 5 | 0 | 13 | 26 | 14 |
| 15:30 | 15:45 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 10 | 0 | 5 | 0 | 11 | 21 | 11 |
| 15:45 | 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 0 | 22 | 0 | 8 | 0 | 22 | 44 | 22 |
| 16:00 | 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 7 | 0 | 3 | 0 | 7 | 14 | 7 |
| 16:15 | 16:30 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 5 | 0 | 10 | 0 | 5 | 0 | 11 | 21 | 11 |
| 16:30 | 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 11 | 0 | 7 | 0 | 11 | 22 | 11 |
| 16:45 | 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 9 | 0 | 4 | 0 | 9 | 18 | 9 |
| 17:00 | 17:15 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 8 | 0 | 12 | 0 | 4 | 0 | 13 | 25 | 13 |
| 17:45 | 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 0 | 4 | 0 | 3 | 1 | 5 | 9 | 5 |
| 17:15 | 17:30 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 8 | 0 | 12 | 0 | 4 | 0 | 13 | 25 | 13 |
| 17:30 | 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 0 | 12 | 0 | 7 | 0 | 12 | 24 | 12 |
| Total: | None | 0 | 0 | 0 | 0 | 12 | 0 | 10 | 40 | 40 | 3 | 200 | 0 | 404 | 0 | 191 | 15 | 418 | 822 | 431 |

## Transportation Services - Traffic Services

Turning Movement Count - Study Results
ERINDALE DR @ BASELINE RD

Survey Date: Tuesday, July 24, 2018
Start Time: 07:00

WO No:
37994
Device: Miovision
Full Study 15 Minute U-Turn Total
ERINDALE DR
BASELINE RD

| Time Period |  | Northbound U-Turn Total <br> 0 | Southbound U-Turn Total <br> 0 | Eastbound U-Turn Total <br> 0 | Westbound U-Turn Total <br> 0 | Total <br> 0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00 | 07:15 |  |  |  |  |  |
| 07:15 | 07:30 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 07:45 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 08:00 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 08:15 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 08:30 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 08:45 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 09:00 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 09:15 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 09:30 | 0 | 0 | 1 | 0 | 1 |
| 09:30 | 09:45 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 10:00 | 0 | 0 | 1 | 0 | 1 |
| 11:30 | 11:45 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 12:00 | 0 | 0 | 0 | 0 | 0 |
| 12:00 | 12:15 | 0 | 0 | 0 | 0 | 0 |
| 12:15 | 12:30 | 0 | 0 | 0 | 0 | 0 |
| 12:30 | 12:45 | 0 | 0 | 0 | 0 | 0 |
| 12:45 | 13:00 | 0 | 0 | 0 | 1 | 1 |
| 13:00 | 13:15 | 0 | 0 | 2 | 0 | 2 |
| 13:15 | 13:30 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 15:15 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 15:30 | 0 | 0 | 1 | 0 | 1 |
| 15:30 | 15:45 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 16:00 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 16:15 | 0 | 0 | 1 | 0 | 1 |
| 16:15 | 16:30 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 16:45 | 0 | 0 | 0 | 1 | 1 |
| 16:45 | 17:00 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 17:15 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 18:00 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 17:30 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 17:45 | 0 | 0 | 0 | 0 | 0 |
| Total |  | 0 | 0 | 6 | 2 | 8 |

Turning Movement Count - Study Results

## MAITLAND AVE/GLENMOUNT AVE @ ERINDALE DR

Survey Date: Tuesday, January 21, 2020
Start Time: 07:00
$\begin{array}{lc}\text { WO No: } & 39347 \\ \text { Device: } & \text { Miovision }\end{array}$

Full Study Diagram


[^0]Turning Movement Count - Study Results

## MAITLAND AVE/GLENMOUNT AVE @ ERINDALE DR

Survey Date: Tuesday, January 21, 2020
Start Time: 07:00

WO No:
Device:

39347
Miovision

## Full Study Peak Hour Diagram



5461338 - TUE JAN 21, 2020 - 8HRS - SHAWN MCGUIRE

## Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

## MAITLAND AVE/GLENMOUNT AVE @ ERINDALE DR

Survey Date: Tuesday, January 21, 2020
Start Time: 07:00
WO No: 39347
Device: Miovision


Comments 5461338-TUE JAN 21, 2020-8HRS - SHAWN MCGUIRE

Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

## MAITLAND AVE/GLENMOUNT AVE @ ERINDALE DR

Survey Date: Tuesday, January 21, 2020
Start Time: 07:00

WO No: 39347
Device: Miovision


Comments 5461338-TUE JAN 21, 2020-8HRS - SHAWN MCGUIRE

Transportation Services - Traffic Services

## Turning Movement Count - Peak Hour Diagram

## MAITLAND AVE/GLENMOUNT AVE @ ERINDALE DR

Survey Date: Tuesday, January 21, 2020
Start Time: 07:00
WO No: 39347
Device: Miovision


Comments 5461338-TUE JAN 21, 2020-8HRS - SHAWN MCGUIRE

## Transportation Services - Traffic Services

Turning Movement Count - Study Results
MAITLAND AVE/GLENMOUNT AVE @ ERINDALE DR
Survey Date: Tuesday, January 21, 2020
WO No:
39347
Start Time: 07:00
Device:
Miovision

## Full Study Summary (8 HR Standard)

Survey Date: Tuesday, January 21, 2020
Total Observed U-Turns
AADT Factor
Northbound: 0 Southbound: 1
1.53

Eastbound: 0 Westbound: 0
ERINDALE DR


Note: These values are calculated by multiplying the totals by the appropriate expansion factor. 1.39
$\begin{array}{llllllllllllllllllll}\text { AVG 12Hr } & 112 & 12549 & 90 & 12750 & 393 & 9697 & 878 & 10969 & 23719 & 1442 & 50 & 341 & 1833 & 442 & 37 & 586 & 1064 & 2897 & 26617\end{array}$
Note: These volumes are calculated by multiplying the Equivalent 12 hr . totals by the AADT factor.
1.1

| AVG 24Hr | 146 | 16439 | 118 | 16703 | 515 | 12703 | 1150 | 14369 | 31072 | 1889 | 66 | 447 | 2402 | 579 | 48 | 767 | 1394 | 3796 | 34868 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Note: These volumes are calculated by multiplying the Average Daily 12 hr . totals by 12 to 24 expansion factor.
Note: U-Turns provided for approach totals. Refer to 'U-Turn' Report for specific breakdown.

## Transportation Services - Traffic Services

Survey Date: Tuesday, January 21, 2020
Start Time: 07:00

WO No:
Device:

39347
Miovision

## Full Study 15 Minute Increments

MAITLAND AVE/GLENMOUNT AVE

## Northbound <br> Southbound <br> Eastbound <br> Westbound

| Time | Period | LT | ST | RT | $\begin{gathered} \mathrm{N} \\ \text { TOT } \end{gathered}$ | LT | ST | RT | $\begin{gathered} \mathrm{s} \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \\ & \hline \end{aligned}$ | LT | ST | RT | $\begin{gathered} \mathrm{E} \\ \text { TOT } \end{gathered}$ | LT | ST | RT | $\begin{gathered} \text { w } \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | $\begin{aligned} & \text { Grand } \\ & \text { Total } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00 | 07:15 | 0 | 194 | 2 | 196 | 6 | 143 | 7 | 156 | 747 | 34 | 0 | 8 | 42 | 5 | 1 | 11 | 17 | 747 | 411 |
| 07:15 | 07:30 | 1 | 226 | 0 | 227 | 3 | 157 | 3 | 163 | 844 | 35 | 0 | 8 | 43 | 9 | 0 | 19 | 28 | 844 | 461 |
| 07:30 | 07:45 | 0 | 259 | 1 | 260 | 2 | 160 | 10 | 172 | 946 | 51 | 0 | 10 | 61 | 14 | 1 | 20 | 35 | 946 | 528 |
| 07:45 | 08:00 | 3 | 239 | 0 | 242 | 3 | 171 | 17 | 191 | 931 | 41 | 0 | 13 | 54 | 11 | 1 | 23 | 35 | 931 | 522 |
| 08:00 | 08:15 | 3 | 296 | 0 | 299 | 1 | 159 | 20 | 180 | 1055 | 67 | 1 | 11 | 79 | 17 | 2 | 26 | 45 | 1055 | 603 |
| 08:15 | 08:30 | 2 | 263 | 2 | 267 | 6 | 205 | 20 | 231 | 1077 | 60 | 2 | 12 | 74 | 18 | 0 | 21 | 39 | 1077 | 611 |
| 08:30 | 08:45 | 2 | 235 | 4 | 241 | 3 | 210 | 11 | 224 | 1026 | 68 | 3 | 13 | 84 | 15 | 0 | 20 | 35 | 1026 | 584 |
| 08:45 | 09:00 | 1 | 251 | 1 | 253 | 8 | 179 | 7 | 194 | 966 | 55 | 1 | 9 | 65 | 6 | 0 | 19 | 25 | 966 | 537 |
| 09:00 | 09:15 | 0 | 311 | 0 | 311 | 3 | 197 | 15 | 215 | 1108 | 41 | 0 | 13 | 54 | 8 | 0 | 12 | 20 | 1108 | 600 |
| 09:15 | 09:30 | 0 | 220 | 2 | 222 | 7 | 185 | 17 | 209 | 918 | 45 | 1 | 15 | 61 | 9 | 0 | 13 | 22 | 918 | 514 |
| 09:30 | 09:45 | 0 | 208 | 3 | 211 | 1 | 212 | 9 | 222 | 933 | 34 | 1 | 16 | 51 | 15 | 1 | 15 | 31 | 933 | 515 |
| 09:45 | 10:00 | 3 | 208 | 3 | 214 | 3 | 184 | 11 | 198 | 857 | 28 | 0 | 6 | 34 | 6 | 2 | 13 | 21 | 857 | 467 |
| 11:30 | 11:45 | 1 | 231 | 2 | 234 | 8 | 210 | 13 | 231 | 941 | 19 | 1 | 4 | 24 | 8 | 1 | 4 | 13 | 941 | 502 |
| 11:45 | 12:00 | 3 | 219 | 2 | 224 | 7 | 263 | 24 | 294 | 1039 | 23 | 1 | 3 | 27 | 6 | 0 | 7 | 13 | 1039 | 558 |
| 12:00 | 12:15 | 3 | 240 | 2 | 245 | 5 | 240 | 14 | 259 | 1023 | 17 | 0 | 5 | 22 | 4 | 1 | 13 | 18 | 1023 | 544 |
| 12:15 | 12:30 | 3 | 269 | 5 | 277 | 8 | 220 | 19 | 247 | 1055 | 26 | 0 | 3 | 29 | 8 | 0 | 5 | 13 | 1055 | 566 |
| 12:30 | 12:45 | 0 | 244 | 2 | 246 | 10 | 223 | 11 | 245 | 1007 | 22 | 0 | 5 | 27 | 13 | 1 | 8 | 22 | 1007 | 540 |
| 12:45 | 13:00 | 0 | 278 | 3 | 281 | 2 | 216 | 11 | 229 | 1051 | 27 | 1 | 5 | 33 | 12 | 0 | 3 | 15 | 1051 | 558 |
| 13:00 | 13:15 | 2 | 238 | 0 | 240 | 8 | 207 | 14 | 229 | 947 | 18 | 1 | 3 | 22 | 3 | 1 | 9 | 13 | 947 | 504 |
| 13:15 | 13:30 | 3 | 288 | 3 | 294 | 6 | 224 | 12 | 242 | 1081 | 18 | 0 | 5 | 23 | 2 | 0 | 8 | 10 | 1081 | 569 |
| 15:00 | 15:15 | 0 | 304 | 2 | 306 | 10 | 184 | 18 | 212 | 1044 | 17 | 4 | 9 | 30 | 7 | 1 | 5 | 13 | 1044 | 561 |
| 15:15 | 15:30 | 4 | 323 | 4 | 331 | 14 | 161 | 14 | 189 | 1049 | 29 | 1 | 9 | 39 | 5 | 0 | 2 | 7 | 1049 | 566 |
| 15:30 | 15:45 | 4 | 323 | 0 | 327 | 7 | 165 | 23 | 195 | 1048 | 22 | 0 | 3 | 25 | 8 | 1 | 5 | 14 | 1048 | 561 |
| 15:45 | 16:00 | 0 | 247 | 4 | 251 | 7 | 119 | 65 | 191 | 828 | 7 | 0 | 2 | 9 | 8 | 1 | 3 | 12 | 828 | 463 |
| 16:00 | 16:15 | 2 | 206 | 1 | 209 | 6 | 181 | 12 | 199 | 864 | 22 | , | 5 | 28 | 9 | 2 | 33 | 44 | 864 | 480 |
| 16:15 | 16:30 | 5 | 355 | 1 | 361 | 24 | 233 | 24 | 281 | 1277 | 20 | 2 | 2 | 24 | 11 | 3 | 14 | 28 | 1277 | 694 |
| 16:30 | 16:45 | - | 277 | 0 | 280 | 15 | 220 | 22 | 257 | 1069 | 14 | 2 | 5 | 21 | 6 | 0 | 10 | 16 | 1069 | 574 |
| 16:45 | 17:00 | 10 | 224 | 3 | 237 | 22 | 218 | 24 | 264 | 983 | 13 | 1 | 7 | 21 | 10 | 1 | 10 | 21 | 983 | 543 |
| 17:00 | 17:15 | 2 | 273 | 2 | 277 | 19 | 244 | 34 | 297 | 1120 | 13 | 0 | 3 | 16 | 6 | 0 | 7 | 13 | 1120 | 603 |
| 17:15 | 17:30 | 1 | 275 | 3 | 279 | 8 | 227 | 24 | 259 | 1086 | 17 | 8 | 8 | 33 | 9 | 0 | 12 | 21 | 1086 | 592 |
| 17:30 | 17:45 | 6 | 273 | 1 | 280 | 12 | 222 | 30 | 264 | 1076 | 20 | 1 | 2 | 23 | 8 | 2 | 7 | 17 | 1076 | 584 |
| 17:45 | 18:00 | 6 | 210 | 1 | 217 | 13 | 203 | 19 | 235 | 905 | 20 | 0 | 1 | 21 | 13 | 1 | 6 | 20 | 905 | 493 |
| Total: |  | 73 | 8207 | 59 | 18339 | 257 | 6342 | 574 | 7174 | 31901\| | 943 | 33 | 223 | 1199 | 289 | 24 | 383 | 696 | 31901\| | 17,408 |

Note: U-Turns are included in Totals.

## Transportation Services - Traffic Services

## Turning Movement Count - Study Results MAITLAND AVE/GLENMOUNT AVE @ ERINDALE DR

| Survey Date: Tuesday, January 21, 2020 | WO No: | 39347 |
| :--- | :--- | :---: |
| Start Time: $07: 00$ | Device: | Miovision |

## Full Study Cyclist Volume

MAITLAND AVE/GLENMOUNT AVE
ERINDALE DR

| Time Period |  | Northbound | Southbound | Street Total | Eastbound | Westbound | Street Total | Grand Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00 | 07:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 07:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 07:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 08:15 | 0 | 0 | 0 | 1 | 1 | 2 | 2 |
| 08:15 | 08:30 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| 08:30 | 08:45 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 08:45 | 09:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 09:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 09:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 09:45 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 09:45 | 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 11:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 12:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 | 12:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:15 | 12:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:30 | 12:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:45 | 13:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:00 | 13:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:15 | 13:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 15:15 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 15:15 | 15:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 15:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 16:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 16:15 | 1 | 0 | 1 | 0 | 0 | 0 | 1 |
| 16:15 | 16:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 17:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 17:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 17:45 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 17:45 | 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total |  | 1 | 0 | 1 | 5 | 2 | 7 | 8 |

## Turning Movement Count - Study Results <br> MAITLAND AVE/GLENMOUNT AVE @ ERINDALE DR

| Survey Date: Tuesday, January 21, 2020 | Wo No: | 39347 |
| :---: | :---: | :---: |
| Start Time: $07: 00$ | Device: | Miovision |

## Full Study Pedestrian Volume <br> MAITLAND AVE/GLENMOUNT AVE <br> ERINDALE DR

| Time Period |  |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | NB Approach <br> (E or W Crossing) | SB Approach <br> (E or W Crossing) | Total | EB Approach <br> (N or S Crossing) | WB Approach <br> (N or S Crossing) | Total |


| 07:00 07:15 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:15 07:30 | 0 | 0 | 0 | 1 | 2 | 3 | 3 |
| 07:30 07:45 | 3 | 4 | 7 | 5 | 3 | 8 | 15 |
| 07:45 08:00 | 1 | 0 | 1 | 5 | 2 | 7 | 8 |
| 08:00 08:15 | 1 | 6 | 7 | 3 | 4 | 7 | 14 |
| 08:15 08:30 | 1 | 2 | 3 | 4 | O | 4 | 7 |
| 08:30 08:45 | 1 | 2 | 3 | 1 | 3 | 4 | 7 |
| 08:45 09:00 | 0 | 0 | 0 | 1 | 2 | 3 | 3 |
| 09:00 09:15 | 2 | 0 | 2 | 0 | 0 | 0 | 2 |
| 09:15 09:30 | 1 | 0 | 1 | 3 | 0 | 3 | 4 |
| 09:30 09:45 | 0 | 0 | 0 | 1 | 0 | 1 | 1 |
| 09:45 10:00 | 0 | 2 | 2 | 2 | 3 | 5 | 7 |
| 11:30 11:45 | 0 | 1 | 1 | 1 | 1 | 2 | 3 |
| 11:45 12:00 | 3 | 0 | 3 | 3 | 0 | 3 | 6 |
| 12:00 12:15 | 1 | 0 | 1 | 1 | 0 | 1 | 2 |
| 12:15 12:30 | 0 | 0 | 0 | 0 | 3 | 3 | 3 |
| 12:30 12:45 | 0 | 1 | 1 | 1 | 0 | 1 | 2 |
| 12:45 13:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:00 13:15 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |
| 13:15 13:30 | 0 | 1 | 1 | 1 | 0 | 1 | 2 |
| 15:00 15:15 | 8 | 2 | 10 | 6 | 0 | 6 | 16 |
| 15:15 15:30 | 9 | 5 | 14 | 9 | 4 | 13 | 27 |
| 15:30 15:45 | 7 | 1 | 8 | 9 | 1 | 10 | 18 |
| 15:45 16:00 | 3 | 0 | 3 | 7 | 2 | 9 | 12 |
| 16:00 16:15 | 2 | 2 | 4 | 0 | 1 | 1 | 5 |
| 16:15 16:30 | 2 | 2 | 4 | 4 | 1 | 5 | 9 |
| 16:30 16:45 | 0 | 2 | 2 | 0 | 2 | 2 | 4 |
| 16:45 17:00 | 0 | 9 | 9 | 3 | 6 | 9 | 18 |
| 17:00 17:15 | 3 | 1 | 4 | 6 | 1 | 7 | 11 |
| 17:15 17:30 | 4 | 3 | 7 | 6 | 2 | 8 | 15 |
| 17:30 17:45 | 0 | 1 | 1 | 2 | 0 | 2 | 3 |
| 17:45 18:00 | 1 | 1 | 2 | 1 | 1 | 2 | 4 |
| Total .......... | 53 | 49 | 102 | 86 | 45 | 131 | 233 |

5461338 - TUE JAN 21, 2020 - 8HRS - SHAWN MCGUIRE

## Transportation Services - Traffic Services <br> ttawa <br> Turning Movement Count - Study Results MAITLAND AVE/GLENMOUNT AVE @ ERINDALE DR

Survey Date: Tuesday, January 21, 2020
Start Time: 07:00

WO No:
Device:
39347
Miovision

## Full Study Heavy Vehicles

## MAITLAND AVE/GLENMOUNT AVE

| Time Period |  | Northbound |  |  | Southbound |  |  |  |  | Eastbound |  |  |  |  | Westbound |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | LT | ST | RT | $\begin{gathered} \mathrm{N} \\ \text { TOT } \end{gathered}$ | LT | ST | RT | $\begin{gathered} \mathbf{S} \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | LT | ST | RT | $\begin{gathered} \mathrm{E} \\ \text { TOT } \end{gathered}$ | LT | ST | RT | $\begin{gathered} \text { w } \\ \text { TOT } \end{gathered}$ | $\begin{aligned} & \text { STR } \\ & \text { TOT } \end{aligned}$ | Grand Total |
| 07:00 | 07:15 | 0 | 2 | 1 | 4 | 0 | 1 | 0 | 4 | 8 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 5 |
| 07:15 | 07:30 | 0 | 5 | 0 | 7 | 1 | 2 | 0 | 9 | 16 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 9 |
| 07:30 | 07:45 | 0 | 1 | 0 | 5 | 0 | 3 | 0 | 5 | 10 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 2 | 6 |
| 07:45 | 08:00 | 0 | 3 | 0 | 5 | 0 | 2 | 2 | 8 | 13 | 1 | 0 | 0 | 4 | 0 | 1 | 0 | 1 | 5 | 9 |
| 08:00 | 08:15 | 1 | 3 | 0 | 12 | 0 | 7 | 1 | 14 | 26 | 3 | 0 | 0 | 5 | 1 | 0 | 0 | 1 | 6 | 16 |
| 08:15 | 08:30 | 1 | 5 | 0 | 11 | 1 | 4 | 1 | 13 | 24 | 1 | 0 | 0 | 3 | 1 | 0 | 1 | 3 | 6 | 15 |
| 08:30 | 08:45 | 0 | 4 | 1 | 8 | 0 | 3 | 0 | 8 | 16 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 2 | 9 |
| 08:45 | 09:00 | 0 | 6 | 0 | 12 | 1 | 6 | 0 | 15 | 27 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 3 | 15 |
| 09:00 | 09:15 | 0 | 8 | 0 | 12 | 0 | 4 | 2 | 14 | 26 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 14 |
| 09:15 | 09:30 | 0 | 4 | 0 | 5 | 0 | 1 | 0 | 6 | 11 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 6 |
| 09:30 | 09:45 | 0 | 6 | 0 | 12 | 0 | 6 | 1 | 13 | 25 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 13 |
| 09:45 | 10:00 | 0 | 5 | 0 | 9 | 0 | 3 | 1 | 10 | 19 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 2 | 3 | 11 |
| 11:30 | 11:45 | 0 | 4 | 0 | 7 | 1 | 3 | 0 | 8 | 15 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 3 | 9 |
| 11:45 | 12:00 | 0 | 4 | 0 | 13 | 0 | 8 | 0 | 13 | 26 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 2 | 14 |
| 12:00 | 12:15 | 0 | 3 | 0 | 9 | 0 | 6 | 0 | 9 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |
| 12:15 | 12:30 | 0 | 1 | 0 | 3 | 2 | 2 | 0 | 5 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 5 |
| 12:30 | 12:45 | 0 | 6 | 0 | 13 | 0 | 5 | 0 | 11 | 24 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 2 | 2 | 13 |
| 12:45 | 13:00 | 0 | 6 | 0 | 7 | 0 | 0 | 1 | 8 | 15 | 1 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 3 | 9 |
| 13:00 | 13:15 | 0 | 5 | 0 | 11 | 0 | 6 | 1 | 12 | 23 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 12 |
| 13:15 | 13:30 | 0 | 0 | 1 | 8 | 0 | 7 | 0 | 9 | 17 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 3 | 10 |
| 15:00 | 15:15 | 0 | 5 | 0 | 8 | 0 | 3 | 2 | 10 | 18 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 10 |
| 15:15 | 15:30 | 1 | 3 | 0 | 6 | 1 | 2 | 0 | 8 | 14 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 4 | 9 |
| 15:30 | 15:45 | 0 | 4 | 0 | 9 | 0 | 4 | 1 | 9 | 18 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 2 | 10 |
| 15:45 | 16:00 | 0 | 0 | 1 | 4 | 0 | 3 | 1 | 6 | 10 | 2 | 0 | 0 | 3 | 0 | 0 | 0 | 1 | 4 | 7 |
| 16:00 | 16:15 | 0 | 5 | 0 | 6 | 3 | 1 | 1 | 11 | 17 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 4 | 5 | 11 |
| 16:15 | 16:30 | 0 | 2 | 0 | 3 | 0 | 1 | 1 | 5 | 8 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 2 | 5 |
| 16:30 | 16:45 | 0 | 1 | 0 | 3 | 0 | 2 | 1 | 5 | 8 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 5 |
| 16:45 | 17:00 | 0 | 2 | 0 | 5 | 0 | 3 | 2 | 8 | 13 | 1 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 | 8 |
| 17:00 | 17:15 | 0 | 3 | 0 | 7 | 0 | 4 | 1 | 8 | 15 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 8 |
| 17:15 | 17:30 | 0 | 2 | 0 | 2 | 0 | 0 | 1 | 4 | 6 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 4 |
| 17:30 | 17:45 | 0 | 3 | 0 | 3 | 0 | 0 | 1 | 5 | 8 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 2 | 5 |
| 17:45 | 18:00 | 0 | 3 | 0 | 5 | 0 | 2 | 1 | 6 | 11 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 6 |
| Total: | None | 3 | 114 | 4 | 234 | 10 | 104 | 23 | 279 | 513 | 22 | 0 | 0 | 50 | 9 | 2 | 6 | 31 | 81 | 297 |

## Transportation Services - Traffic Services

Turning Movement Count - Study Results

## MAITLAND AVE/GLENMOUNT AVE @ ERINDALE DR

Survey Date: Tuesday, January 21, 2020
Start Time: 07:00

WO No:
39347
Device: Miovision

Full Study 15 Minute U-Turn Total
MAITLAND AVE/GLENMOUNT AVE
ERINDALE DR

| Time Period |  | Northbound U-Turn Total | Southbound U-Turn Total | Eastbound U-Turn Total | Westbound U-Turn Total | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 07:00 | 07:15 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 07:30 | 0 | 0 | 0 | 0 | 0 |
| 07:30 | 07:45 | 0 | 0 | 0 | 0 | 0 |
| 07:45 | 08:00 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 08:15 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 08:30 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 08:45 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 09:00 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 09:15 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 09:30 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 09:45 | 0 | 0 | 0 | 0 | 0 |
| 09:45 | 10:00 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 11:45 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 12:00 | 0 | 0 | 0 | 0 | 0 |
| 12:00 | 12:15 | 0 | 0 | 0 | 0 | 0 |
| 12:15 | 12:30 | 0 | 0 | 0 | 0 | 0 |
| 12:30 | 12:45 | 0 | 1 | 0 | 0 | 1 |
| 12:45 | 13:00 | 0 | 0 | 0 | 0 | 0 |
| 13:00 | 13:15 | 0 | 0 | 0 | 0 | 0 |
| 13:15 | 13:30 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 15:15 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 15:30 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 15:45 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 16:00 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 16:15 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 16:30 | 0 | 0 | 0 | 0 | 0 |
| 16:30 | 16:45 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 17:00 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 17:15 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 17:30 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 17:45 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 18:00 | 0 | 0 | 0 | 0 | 0 |
|  |  | 0 | 1 | 0 | 0 | 1 |

## APPENDIX D

CITY OF OTTAWA COLLISION DATA

Total Area

| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Other |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 108 | 21 | 53 | 27 | 2 | 0 | 0 | 0 |
| Non-fatal injury | 23 | 4 | 4 | 11 | 1 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{1 3 1}$ | $\mathbf{2 5}$ | $\mathbf{5 7}$ | $\mathbf{3 8}$ | $\mathbf{3}$ | 0 | 0 | 0 |

BASELI NE RD/ CLYDE AVE

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 120 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of Accident | Rear End | Turning Movement | Sideswipe | Angle | Approaching | Single Vehicle (other) | Single vehicle (Unattended vehicle) | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 64 | 11 | 19 | 8 | 0 | 0 | 0 | 0 | 102 |
| Non-fatal injury | 12 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 18 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 76 | 12 | 20 | 12 | 0 | 0 | 0 | 0 | 120 |
|  | 63\% | 10\% | 17\% | 10\% | 0\% | 0\% | 0\% | 0\% |  |

BASELI NE RD/ PENDER ST

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 3 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Other |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{2}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{0}$ | 0 | $\mathbf{0}$ | 0 |
| 0 |  |  |  |  |  |  | $\mathbf{0}$ | 0 |

BASELI NE RD/ ST HELEN'S PL
BASELI NE RD/ ST HELEN'S PL

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 3 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of Accident | Rear End | Turning Movement | Sideswipe | Angle | Approaching | Single Vehicle (other) | Single vehicle (Unattended vehicle) | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 |
| Non-fatal injury | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 2 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 3 |
|  | 67\% | 0\% | 33\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |

## BASELI NE RD, PENDER ST to HENRY FARM DR

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 0 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of Accident | Rear End | Turning Movement | Sideswipe | Angle | Approaching | Single Vehicle (other) | Single vehicle (Unattended vehicle) | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

BASELI NE RD, ST HELEN'S PL to CLYDE AVE

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 14 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | n/a |


| Classification of Accident | Rear End | Turning Movement | Sideswipe | Angle | Approaching | Single Vehicle (other) | Single vehicle (Unattended vehicle) | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 4 | 0 | 4 | 2 | 0 | 0 | 0 | 0 | 10 |
| Non-fatal injury | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 1 | 4 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 5 | 0 | 5 | 3 | 0 | 0 | 0 | 1 | 14 |
|  | 36\% | 0\% | 36\% | 21\% | 0\% | 0\% | 0\% | 7\% |  |

CLYDE AVE/ MAI TLAND AVE

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 7 | n/a | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Otal |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| O.D. only | 3 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{3}$ | $\mathbf{2}$ | $\mathbf{2}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | 0 | $\mathbf{0}$ |

CLYDE AVE, MAI TLAND AVE to BASELI NE RD

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 10 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of Accident | Rear End | Turning Movement | Sideswipe | Angle | Approaching | Single Vehicle (other) | Single vehicle (Unattended vehicle) | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 3 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 9 |
| Non-fatal injury | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 3 | 2 | 3 | 2 | 0 | 0 | 0 | 0 | 10 |
|  | 30\% | 20\% | 30\% | 20\% | 0\% | 0\% | 0\% | 0\% |  |

## ERI NDALE DR/ BASELI NE RD

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 11 | n/a | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Other |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 2 | 0 | 0 | 6 | 0 | 0 | 0 | 0 |
| Ton-fatal injury | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{2}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{9}$ | $\mathbf{0}$ | 0 | $\mathbf{0}$ | 0 |

AMESBROOKE DR/ MAI TLAND AVE
AMESBROOKE DR/ MAI TLAND AVE

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 4 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Total <br> Other |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{2}$ | $\mathbf{0}$ | $\mathbf{2}$ | $\mathbf{0}$ | $\mathbf{0}$ | 0 | $\mathbf{0}$ | 0 | 0 |

## CAMEO DR/ MAI TLAND AVE

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 7 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of Accident | Rear End | Turning Movement | Sideswipe | Angle | Approaching | Single Vehicle (other) | Single vehicle (Unattended vehicle) | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 1 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 7 |
| Non-fatal injury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | 1 | 1 | 4 | 0 | 0 | 0 | 0 | 7 |
|  | 14\% | 14\% | 14\% | 57\% | 0\% | 0\% | 0\% | 0\% |  |

ERI NDALE DR/ FORLAN DR

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 1 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of Accident | Rear End | Turning Movement | Sideswipe | Angle | Approaching | Single Vehicle (other) | Single vehicle (Unattended vehicle) | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | 100\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |

ERINDALE DR/ NAVAHO DR

| Years | Total <br> Colisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 2 | n/a | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Other |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{0}$ | 0 | 0 | 0 |

ERI NDALE DR, AI NSLEY DR to BASELI NE RD

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 1 | n/a | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Other |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| O.D. only | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | 0 | $\mathbf{0}$ | $\mathbf{0}$ |

## ERI NDALE DR, FORLAN DR to AI NSLEY DR

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 0 | n/a | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Other |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | 0 | 0 | 0 |

ERI NDALE DR, NAVAHO DR to FORLAN DR

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 1 | n/a | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Other |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | 0 | 0 | $\mathbf{0}$ |

ERI NDALE DR, NAVAHO DR to MAI TLAND AVE

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 1 | n/a | \#VALUE! | n/a |


| Classification of Accident | Rear End | Turning Movement | Sideswipe | Angle | Approaching | Single Vehicle (other) | Single vehicle (Unattended vehicle) | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Non-fatal injury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
|  | 0\% | 0\% | 0\% | 0\% | 100\% | 0\% | 0\% | 0\% |  |

## HENRY FARM DR/ MAI TLAND AVE

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 3 | n/a | \#VALUE! | n/a |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Other <br> Total |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{2}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{0}$ | 0 | 0 | $\mathbf{0}$ |

MAI TLAND AVE/ TERREBONNE DR

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 5 | n/a | \#VALUE! | n/a |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Other |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{3}$ | $\mathbf{1}$ | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{0}$ | 0 | 0 | 0 |

MAI TLAND AVE, AMESBROOKE DR to HENRY FARM DR

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 5 | n/a | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Total <br> Other |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 3 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{3}$ | $\mathbf{0}$ | $\mathbf{2}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | 0 | 0 | $\mathbf{0}$ |

MAI TLAND AVE, CAMEO DR to CLYDE AVE

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 3 | n/a | \#VALUE! | n/a |


| Classification of Accident | Rear End | Turning Movement | Sideswipe | Angle | Approaching | Single Vehicle (other) | Single vehicle (Unattended vehicle) | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
| Non-fatal injury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
|  | 33\% | 0\% | 67\% | 0\% | 0\% | 0\% | 0\% | 0\% |  |

MAI TLAND AVE, GLENMOUNT AVE to AMESBROOKE DR

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 4 | $n / a$ | \#VALUE! | n/a |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Other |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 1 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non-fatal injury | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{1}$ | $\mathbf{0}$ | $\mathbf{3}$ | $\mathbf{0}$ | $\mathbf{0}$ | $\mathbf{0}$ | 0 | 0 | $\mathbf{0}$ |

MAI TLAND AVE, HENRY FARM DR to TERREBONNE DR

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 4 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of Accident | Rear End | Turning Movement | Sideswipe | Angle | Approaching | Single Vehicle (other) | Single vehicle (Unattended vehicle) | Other | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 3 | 75\% |
| Non-fatal injury | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 25\% |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0\% |
| Total | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 1 | 4 | 100\% |
|  | 0\% | 0\% | 75\% | 0\% | 0\% | 0\% | 0\% | 25\% |  |  |

MAI TLAND AVE, TERREBONNE DR to CAMEO DR

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 7 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of Accident | Rear End | Turning Movement | Sideswipe | Angle | Approaching | Single Vehicle (other) | Single vehicle (Unattended vehicle) | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 3 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| Non-fatal injury | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 4 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 7 |
|  | 57\% | 14\% | 14\% | 0\% | 14\% | 0\% | 0\% | 0\% |  |

MAITLAND AVE/ ERINDALE DR/ GLENMOUNT AVE
MAI TLAND AVE/ ERI NDALE DR/ GLENMOUNT AVE

| Years | Total \# <br> Collisions | 24 Hr AADT <br> Veh Volume | Days | Collisions/MEV |
| :---: | :---: | :---: | :---: | :---: |
| \#VALUE! | 40 | $\mathrm{n} / \mathrm{a}$ | \#VALUE! | $\mathbf{n} / \mathbf{a}$ |


| Classification of <br> Accident | Rear End | Turning <br> Movement | Sideswipe | Angle | Approaching | Single Vehicle <br> (other) | Single vehicle <br> (Unattended <br> vehicle) | Other |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| P.D. only | 15 | 3 | 9 | 4 | 1 | 0 | 0 | 0 |
| Non-fatal injury | 3 | 2 | 1 | 2 | 0 | 0 | 0 | 0 |
| Non reportable | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | $\mathbf{1 8}$ | $\mathbf{5}$ | $\mathbf{1 0}$ | $\mathbf{6}$ | $\mathbf{1}$ | 0 | 0 | 0 |

$80 \%$
$20 \%$
$0 \%$
$100 \%$

## City Operations - Transportation Services

## Collision Details Report - Public Version

From: January 1, 2014 To: December 31, 2018

| Location: BASELINE RD @ CLYDE AVE Traffic Control: Traffic signal |  |  |  |  | Total Collisions: 123 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuv | Vehicle type | First Event | No. Ped |
| 2014-Jan-26, Sun,13:56 | Clear | Rear end | P.D. only | Dry | East | Turning left | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | East | Turning left | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | East | Going ahead | Pick-up truck | Other motor vehicle |  |
| 2014-Feb-22, Sat, 12:45 | Clear | Rear end | P.D. only | Dry | West | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |  |
| 2014-Feb-14, Fri, 18:27 | Clear | Rear end | P.D. only | Wet | East | Going ahead | Pick-up truck | Other motor vehicle |  |
|  |  |  |  |  | East | Stopped | Pick-up truck | Other motor vehicle |  |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |  |
| 2014-Mar-05, Wed,21:06 | Clear | Turning movement | P.D. only | Dry | South | Going ahead | Pick-up truck | Other motor vehicle |  |
|  |  |  |  |  | North | Turning left | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Turning left | Automobile, station wagon | Other motor vehicle |  |


| 2014-Apr-03, Thu,21:25 | Clear | SMV other | Non-fatal injury | Dry | West | Turning left | Automobile, station wagon | Pole (utility, power) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2014-Mar-07, Fri,17:24 | Clear | Rear end | P.D. only | Ice | East | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Stopped | Pick-up truck | Other motor vehicle |
| 2014-Mar-24, Mon,09:33 | Clear | Sideswipe | P.D. only | Dry | East | Changing lanes | Passenger van | Other motor vehicle |
|  |  |  |  |  | East | Turning left | Automobile, station wagon | Other motor vehicle |
| 2014-May-07, Wed, 17:16 | Clear | Rear end | P.D. only | Dry | West | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2014-Jun-05, Thu, 19:46 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Slowing or stopping | Pick-up truck | Other motor vehicle |
| 2014-Jul-27, Sun, 16:39 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
| 2014-Jul-02, Wed, 10:25 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Delivery van | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Pick-up truck | Other motor vehicle |


| 2014-Jul-22, Tue,17:40 | Clear | Rear end | Non-fatal injury | Dry | South | Turning left | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | South | Turning left | Automobile, station wagon | Other motor vehicle |
| 2014-Jul-03, Thu,08:20 | Clear | Rear end | P.D. only | Dry | East | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |
| 2014-Aug-24, Sun,09:50 | Clear | Rear end | Non-fatal injury | Dry | East | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Turning right | Automobile, station wagon | Other motor vehicle |
| 2014-Aug-19, Tue,18:14 | Clear | Turning movement | P.D. only | Dry | South | Turning left | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | South | Turning left | Automobile, station wagon | Other motor vehicle |
| 2014-Oct-09, Thu,16:20 | Rain | Rear end | P.D. only | Wet | West | Turning right | Delivery van | Other motor vehicle |
|  |  |  |  |  | West | Turning right | Automobile, station wagon | Other motor vehicle |
| 2014-Dec-14, Sun, 20:12 | Fog, mist, smoke, dust | Rear end | P.D. only | Wet | West | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Turning right | Automobile, station wagon | Other motor vehicle |
| 2015-Jan-20, Tue, 11:00 | Clear | Rear end | Non-fatal injury | Ice | North | Slowing or stopping Pick-up truck |  | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |


| 2014-Jul-03, Thu,06:05 | Clear | Angle | Non-fatal injury | Dry | West <br> South | Going ahead <br> Turning left | Automobile, station wagon Pick-up truck | Other motor vehicle <br> Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
| 2014-Oct-29, Wed, 16:30 | Clear | Rear end | P.D. only | Dry | North | Turning right | Passenger van | Other motor vehicle |
|  |  |  |  |  | North | Turning right | Automobile, station wagon | Other motor vehicle |
| 2014-Nov-28, Fri, 16:58 | Clear | Angle | P.D. only | Dry | West | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Making "U" turn | Automobile, station wagon | Other motor vehicle |
| 2014-Dec-19, Fri, 14:40 | Clear | Turning movement | P.D. only | Dry | East | Turning left | Municipal transit bus | Other motor vehicle |
|  |  |  |  |  | West | Turning right | Automobile, station wagon | Other motor vehicle |
| 2014-Sep-25, Thu, 16:46 | Clear | Rear end | P.D. only | Dry | West | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |
| 2015-Jan-25, Sun,20:25 | Clear | Rear end | P.D. only | Ice | South | Slowing or stopping Pick-up truck |  | Other motor vehicle |
|  |  |  |  |  | South | Slowing or stopping Pick-up truck |  | Other motor vehicle |
|  |  |  |  |  | South | Slowing or stopping Automobile, station wagon |  | Other motor vehicle |
| 2014-Dec-26, Fri,16:27 | Clear | Turning movement | P.D. only | Dry | West | Going ahead | Motorcycle | Skidding/sliding |
|  |  |  |  |  | East | Turning left | Automobile, station wagon | Other motor vehicle |


| 2015-Mar-20, Fri,09:15 | Clear | Rear end | P.D. only | Dry | West | Turning right | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | West | Turning right | Automobile, station wagon | Other motor vehicle |
| 2015-Mar-31, Tue,16:21 | Clear | Rear end | P.D. only | Dry | West | Going ahead | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Passenger van | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Pick-up truck | Other motor vehicle |
| 2015-Feb-06, Fri,09:35 | Clear | Angle | P.D. only | Loose snow | West | Slowing or stopping Passenger van |  | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Passenger van | Other motor vehicle |
| 2015-Jan-28, Wed, 13:45 | Clear | Sideswipe | P.D. only | Dry | West | Overtaking | Unknown | Other motor vehicle |
|  |  |  |  |  | West | Turning left | Automobile, station wagon | Other motor vehicle |
| 2015-Mar-11, Wed,00:00 | Clear | Rear end | Non-fatal injury | Dry | South | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Pick-up truck | Other motor vehicle |
| 2015-Jan-02, Fri, 10:30 | Clear | Sideswipe | P.D. only | Dry | East | Going ahead | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | East | Turning right | Automobile, station wagon | Other motor vehicle |
| 2015-Feb-08, Sun,13:06 | Clear | Rear end | P.D. only | Ice | South | Turning left | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Turning left | Automobile, station wagon | Other motor vehicle |


| 2014-Dec-25, Thu,15:09 | Clear | Turning movement | P.D. only | Dry | North | Turning left | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2015-Mar-14, Sat, 19:17 | Freezing Rain | Sideswipe | P.D. only | Wet | West | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Pick-up truck | Other motor vehicle |
| 2015-Apr-15, Wed,09:58 | Clear | Rear end | P.D. only | Dry | West | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Turning right | Automobile, station wagon | Other motor vehicle |
| 2015-Mar-03, Tue, 18:27 | Snow | Angle | P.D. only | Loose snow | South | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Turning left | Automobile, station wagon | Other motor vehicle |
| 2015-May-08, Fri, 19:52 | Clear | Rear end | Non-fatal injury | Dry | West | Unknown | Unknown | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |
| 2015-Aug-31, Mon,12:09 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Passenger van | Other motor vehicle |
| 2015-Jul-03, Fri, 16:04 | Clear | Sideswipe | P.D. only | Dry | North | Changing lanes | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | North | Turning left | Automobile, station wagon | Other motor vehicle |


| 2015-Jun-20, Sat, 17:55 | Clear | Turning movement | P.D. only | Dry | West | Turning left <br> Turning right | Automobile, station wagon Automobile, station wagon | Other motor vehicle <br> Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | East |  |  |  |
| 2015-Mar-17, Tue, 17:11 | Clear | Sideswipe | P.D. only | Dry | South | Turning left | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | South | Turning left | Pick-up truck | Other motor vehicle |
| 2015-Jun-08, Mon,17:47 | Clear | Rear end | P.D. only | Dry | West | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
| 2015-Jun-20, Sat, 15:50 | Clear | Turning movement | P.D. only | Dry | North | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2016-May-07, Sat, 14:45 | Clear | Turning movement | P.D. only | Dry | East | Turning right | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | West | Turning left | Automobile, station wagon | Other motor vehicle |
| 2016-Jan-16, Sat, 22:50 | Snow | Turning movement | P.D. only | Loose snow | North | Going ahead | Passenger van | Other motor vehicle |
|  |  |  |  |  | South | Turning left | Automobile, station wagon | Other motor vehicle |
| 2016-Mar-26, Sat, 20:29 | Clear | Angle | Non-fatal injury | Dry | West | Going ahead | Passenger van | Other motor vehicle |
|  |  |  |  |  | North | Turning left | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Turning left | Passenger van | Other motor vehicle |



|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-Aug-24, Wed, 15:30 | Clear | Sideswipe | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2016-Mar-29, Tue, 12:53 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| 2016-Jun-30, Thu, 15:45 | Clear | Rear end | P.D. only | Dry | East | Going ahead | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | East | Stopped | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |
| 2016-Apr-13, Wed, 17:19 | Clear | Sideswipe | P.D. only | Dry | West | Overtaking | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Tow truck | Other motor vehicle |
| 2016-May-25, Wed, 19:33 | Clear | Sideswipe | P.D. only | Dry | North | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2016-Sep-03, Sat, 11:50 | Clear | Rear end | P.D. only | Dry | North | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |


|  |  |  |  |  | North | Stopped | Pick-up truck | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-Apr-10, Sun, 10:40 | Clear | Rear end | P.D. only | Dry | West | Turning left | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Turning left | Pick-up truck | Other motor vehicle |
| 2016-Jul-28, Thu, 14:05 | Clear | Rear end | P.D. only | Dry | East | Slowing or stoppin | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | East | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2016-Nov-09, Wed, 17:55 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Automobile, station wagon | Other motor vehicle |
| 2016-Oct-11, Tue,13:00 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Pick-up truck | Other motor vehicle |
| 2016-Oct-19, Wed, 16:55 | Clear | Rear end | P.D. only | Dry | North | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Turning right | Automobile, station wagon | Other motor vehicle |
| 2016-Jun-30, Thu, 17:02 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| 2016-Sep-30, Fri,08:20 | Clear | Rear end | Non-fatal injury | Dry | West | Going ahead | Automobile, station wagon | Other motor vehicle |


|  |  |  |  |  | West | Stopped | Pick-up truck | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-Oct-14, Fri,17:30 | Clear | Rear end | P.D. only | Dry | West | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Passenger van | Other motor vehicle |
| 2017-Aug-24, Thu,14:02 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
| 2017-Aug-14, Mon,20:00 | Clear | Angle | P.D. only | Dry | West | Merging | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Making "U" turn | Automobile, station wagon | Other motor vehicle |
| 2017-Feb-13, Mon,20:44 | Clear | Rear end | Non-fatal injury | Wet | West | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Turning right | Municipal transit bus | Other motor vehicle |
| 2017-Feb-10, Fri,08:51 | Clear | Rear end | P.D. only | Ice | North | Slowing or stopping | Automobile, station wagon | Skidding/sliding |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| 2017-Feb-11, Sat, 14:30 | Clear | Rear end | P.D. only | Packed snow | East | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |
| 2017-Feb-16, Thu,16:49 | Clear | Rear end | Non-fatal injury | Packed snow | West | Slowing or stopping | Passenger van | Skidding/sliding |


|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2017-Feb-16, Thu,08:30 | Snow | Rear end | P.D. only | Ice | West | Slowing or stopping | Pick-up truck | Skidding/sliding |
|  |  |  |  |  | West | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2017-Feb-16, Thu,08:45 | Clear | Rear end | P.D. only | Slush | West | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |
| 2017-Feb-24, Fri, 12:07 | Clear | Rear end | P.D. only | Dry | East | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |
| 2017-Feb-16, Thu,07:00 | Snow | Sideswipe | P.D. only | Packed snow | West | Changing lanes | Passenger van | Skidding/sliding |
|  |  |  |  |  | West | Slowing or stopping | Pick-up truck | Other motor vehicle |
| 2016-Dec-20, Tue, 19:35 | Clear | Angle | P.D. only | Slush | South | Making "U" turn | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Turning right | Automobile, station wagon | Other motor vehicle |
| 2016-Nov-30, Wed, 16:22 | Rain | Sideswipe | P.D. only | Wet | West | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Pick-up truck | Other motor vehicle |


| 2016-Nov-28, Mon,17:17 | Clear | SMV other | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Concrete guide rail |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-Dec-10, Sat, 11:35 | Clear | Rear end | Non-fatal injury | Dry | North | Going ahead | Passenger van | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Passenger van | Other motor vehicle |
| 2016-Dec-11, Sun, 16:05 | Snow | Rear end | Non-fatal injury | Wet | West | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Turning right | Automobile, station wagon | Other motor vehicle |
| 2017-May-22, Mon,14:46 | Rain | Rear end | P.D. only | Wet | North | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Turning right | Automobile, station wagon | Other motor vehicle |
| 2017-May-30, Tue,23:52 | Clear | SMV other | P.D. only | Dry | South | Going ahead | Automobile, station wagon | Curb |
| 2017-May-05, Fri,09:22 | Rain | Angle | P.D. only | Wet | East | Slowing or stopping | Pick-up truck | Skidding/sliding |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2017-May-30, Tue, 12:01 | Clear | Turning movement | P.D. only | Dry | West | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Turning left | Pick-up truck | Other motor vehicle |
| 2017-Jul-11, Tue, 15:20 | Rain | Sideswipe | P.D. only | Wet | West | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Turning left | Automobile, station wagon | Other motor vehicle |


| 2017-Sep-24, Sun,14:04 | Clear | Rear end | P.D. only | Dry | East | Merging | Unknown | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | East | Going ahead | Municipal transit bus | Other motor vehicle |
| 2017-Jul-20, Thu, 12:40 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Passenger van | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| 2017-Nov-08, Wed,23:06 | Clear | Turning movement | P.D. only | Dry | South | Going ahead | Unknown | Other motor vehicle |
|  |  |  |  |  | North | Turning left | Automobile, station wagon | Other motor vehicle |
| 2017-Sep-18, Mon,08:55 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
| 2017-Nov-17, Fri,13:00 | Clear | Angle | P.D. only | Dry | East | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Going ahead | Unknown | Other motor vehicle |
| 2017-Dec-23, Sat,22:24 | Snow | Turning movement | Non-fatal injury | Packed snow | East | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Turning left | Automobile, station wagon | Other motor vehicle |
| 2017-Dec-27, Wed, 13:20 | Clear | Angle | Non-fatal injury | Dry | West | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Turning left | Automobile, station wagon | Other motor vehicle |


| 2017-Sep-21, Thu,13:45 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Unknown | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2017-Dec-06, Wed, 16:29 | Clear | Rear end | P.D. only | Dry | East | Changing lanes | Passenger van | Other motor vehicle |
|  |  |  |  |  | East | Turning left | Automobile, station wagon | Other motor vehicle |
| 2017-Dec-11, Mon,17:19 | Clear | Rear end | P.D. only | Dry | West | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |
| 2017-Dec-11, Mon,15:06 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| 2017-Dec-10, Sun,01:28 | Snow | Sideswipe | P.D. only | Slush | West | Going ahead | Automobile, station wagon | Skidding/sliding |
|  |  |  |  |  | West | Slowing or stoppin | Automobile, station wagon | Other motor vehicle |
| 2018-Feb-01, Thu, 11:08 | Clear | Rear end | P.D. only | Wet | West | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |
| 2017-Sep-14, Thu,14:22 | Clear | Angle | Non-fatal injury | Dry | West | Turning right | Passenger van | Cyclist |
|  |  |  |  |  | South | Going ahead | Bicycle | Other motor vehicle |



| 2018-May-15, Tue,12:25 | Clear | Rear end | P.D. only | Dry | West | Turning left | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | West | Turning left | Automobile, station wagon | Other motor vehicle |
| 2018-Jul-11, Wed, 21:31 | Clear | Rear end | P.D. only | Dry | West | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Turning right | Automobile, station wagon | Other motor vehicle |
| 2018-Jun-11, Mon,09:30 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Motorcycle | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| 2018-Jun-25, Mon,16:11 | Clear | Rear end | Non-fatal injury | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| 2018-Sep-28, Fri, 13:54 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Automobile, station wagon | Other motor vehicle |
| 2018-Nov-17, Sat, 14:35 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Turning left | Automobile, station wagon | Other motor vehicle |
| 2018-Nov-05, Mon,14:36 | Rain | Rear end | P.D. only | Wet | South | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Automobile, station wagon | Other motor vehicle |


| 2018-Nov-22, Thu,19:11 | Snow | Rear end | P.D. only | Slush | West <br> West | Turning left Turning left | Automobile, station wagon <br> Automobile, station wagon | Other motor vehicle <br> Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
| 2018-Dec-12, Wed, 15:28 | Clear | Sideswipe | P.D. only | Dry | West | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2018-Jul-21, Sat, 17:59 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | South | Slowing or stopping | g Automobile, station wagon | Other motor vehicle |
| 2018-Aug-03, Fri, 15:43 | Clear | Rear end | P.D. only | Dry | West | Slowing or stopping | g Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2018-Oct-29, Mon,11:03 | Clear | Sideswipe | P.D. only | Wet | East | Changing lanes | Passenger van | Other motor vehicle |
|  |  |  |  |  | East | Overtaking | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2018-Nov-01, Thu,08:05 | Rain | Rear end | P.D. only | Wet | West | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |
| 2018-Aug-31, Fri, 12:20 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |


|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2018-Nov-09, Fri, 12:47 | Clear | Rear end | P.D. only | Dry | East | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |

Location: BASELINE RD @ PENDER ST
Traffic Control: Stop sign
Total Collisions: 3

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver | Vehicle type | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2015-Sep-08, Tue,14:36 | Clear | Rear end | Non-fatal injury | Dry | East | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |  |
| 2016-Dec-05, Mon,14:10 | Snow | Rear end | P.D. only | Packed snow | East | Slowing or stopping Automobile, station wagon |  | Other motor vehicle |  |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |  |
| 2018-Nov-30, Fri,14:49 | Clear | Sideswipe | P.D. only | Dry | East | Changing lanes | School bus | Other motor vehicle |  |
|  |  |  |  |  | East | Going ahead | Truck - closed | Other motor vehicle |  |

Location: BASELINE RD @ ST. HELEN'S PL
Traffic Control: Stop sign
Total Collisions: 3

| Date/Day/Time | Environment | Impact Type | Classification | Surface <br> Cond'n | Veh. Dir | Vehicle Manoeuver Vehicle type | First Event | No. Ped |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 2014-Jul-16, Wed,12:43 | Clear | Rear end | P.D. only | Dry | East | Slowing or stopping Automobile, | Other motor |  |
| station wagon | vehicle |  |  |  |  |  |  |  |


| 2014-Sep-22, Mon,16:30 | Clear | Sideswipe | P.D. only | Dry | West <br> West | Changing lanes <br> Going ahead | Pick-up truck <br> Automobile, station wagon | Other motor vehicle <br> Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
| 2018-Oct-26, Fri,09:21 | Clear | Rear end | Non-fatal injury | Dry | East | Slowing or stopping Automobile, station wagon |  | Other motor vehicle |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |

## Location: BASELINE RD btwn PENDER ST \& HENRY FARM DR

Traffic Control: No control Total Collisions: 1

| Date/Day/Time | Environment | Impact Type | Classification | Surface <br> Cond'n | Veh. Dir | Vehicle Manoeuver Vehicle type | First Event | No. Ped | Nest |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Location: BASELINE RD btwn ST. HELEN'S PL \& CLYDE AVE
Traffic Control: No control
Total Collisions: 18

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver | Vehicle type | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2014-Sep-05, Fri, 15:07 | Clear | Sideswipe | P.D. only | Dry | East | Changing lanes | Passenger van | Other motor vehicle |  |
|  |  |  |  |  | East | Going ahead | Pick-up truck | Other motor vehicle |  |
| 2014-Feb-21, Fri, 16:18 | Rain | Rear end | Non-fatal injury | Wet | East | Slowing or stopping | Pick-up truck | Other motor vehicle |  |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |  |
| 2015-Feb-11, Wed, 19:04 | Snow | Angle | P.D. only | Slush | South | Turning left | Automobile, station wagon | Other motor vehicle |  |


|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2015-Jan-04, Sun,13:21 | Rain | SMV unattended vehicle | Non-fatal injury | Ice | East | Going ahead | Automobile, station wagon | Unattended vehicle |
| 2015-Jul-22, Wed,06:56 | Clear | Angle | Non-fatal injury | Dry | West | Going ahead | Bicycle | Other motor vehicle |
|  |  |  |  |  | North | Turning right | Pick-up truck | Cyclist |
| 2015-Mar-29, Sun,17:00 | Clear | Angle | P.D. only | Dry | South | Turning left | Passenger van | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2015-Sep-21, Mon,06:05 | Clear | SMV other | Non-fatal injury | Dry | West | Going ahead | Automobile, station wagon | Curb |
| 2015-Sep-14, Mon,08:30 | Clear | Rear end | P.D. only | Dry | West | Slowing or stopping Passenger van |  | Other motor vehicle |
|  |  |  |  |  | West | Slowing or stopping Pick-up truck |  | Other motor vehicle |
| 2016-Sep-06, Tue, 14:10 | Clear | Rear end | P.D. only | Dry | West | Slowing or stopping Automobile, station wagon |  | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Slowing or stopping Passenger van |  | Other motor vehicle |
| 2015-Sep-29, Tue,18:06 | Rain | Rear end | P.D. only | Wet | West | Slowing or stopping Delivery van |  | Other motor vehicle |
|  |  |  |  |  | West | Turning right | Automobile, station wagon | Other motor vehicle |


| 2016-Apr-08, Fri, 16:34 | Clear | Sideswipe | P.D. only | Dry | East | Pulling away from shoulder or curb | Municipal transit bus | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | East | Going ahead | Pick-up truck | Other motor vehicle |
| 2016-Oct-30, Sun,19:06 | Clear | Turning movement | Fatal injury | Dry | West | Going ahead | Motorcycle | Other motor vehicle |
|  |  |  |  |  | East | Turning left | Automobile, station wagon | Other motor vehicle |
| 2016-Apr-18, Mon,21:01 | Rain | SMV other | P.D. only | Wet | West | Going ahead | Automobile, station wagon | Ran off road |
| 2016-Sep-02, Fri,20:19 | Clear | Other | Non-fatal injury | Dry | West | Going ahead | Bicycle | Other motor vehicle |
|  |  |  |  |  | East | Turning right | Passenger van | Cyclist |
| 2016-Jun-01, Wed, 15:16 | Clear | Sideswipe | Non-fatal injury | Dry | West | Changing lanes | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | West | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
| 2016-Dec-21, Wed, 09:59 | Clear | Sideswipe | P.D. only | Wet | West | Changing lanes | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Truck - closed | Other motor vehicle |
| 2018-Sep-26, Wed, 15:23 | Clear | Sideswipe | P.D. only | Dry | West | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2018-Oct-27, Sat, 14:30 | Clear | Rear end | P.D. only | Dry | East | Going ahead | Automobile, station wagon | Other motor vehicle |





|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2018-Feb-11, Sun,17:34 | Snow | Rear end | P.D. only | Slush | North | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| 2018-Oct-04, Thu, 19:15 | Clear | Sideswipe | P.D. only | Wet | North | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| Location: ERINDALE DR @ BASELINE RD |  |  |  |  |  |  |  |  |
| Traffic Control: Stop sign |  |  |  |  | Total Collisions: 15 |  |  |  |
| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver | Vehicle type | First Event No. Ped |
| 2014-Jan-31, Fri, 16:56 | Clear | Angle | P.D. only | Loose snow | South | Turning left | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2014-Jan-23, Thu, 11:50 | Clear | Rear end | P.D. only | Dry | West | Slowing or stopping Automobile, station wagon |  | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |
| 2014-Feb-06, Thu, 18:05 | Clear | Angle | P.D. only | Wet | South | Turning left | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | East | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2014-Feb-07, Fri, 16:04 | Clear | SMV other | P.D. only | Dry | West | Going ahead | Automobile, station wagon | Skidding/sliding |


| 2014-Apr-24, Thu,07:32 | Clear | Angle | P.D. only | Dry | South | Turning left | Pick-up truck | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | East | Turning left | Automobile, station wagon | Other motor vehicle |
| 2014-Apr-26, Sat,09:21 | Rain | Angle | P.D. only | Wet | South | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Pick-up truck | Other motor vehicle |
| 2014-Dec-02, Tue,15:55 | Clear | Angle | P.D. only | Dry | West | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Municipal transit bus | Other motor vehicle |
| 2015-Jun-06, Sat, 14:50 | Clear | Angle | Non-fatal injury | Dry | South | Turning left | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Pick-up truck | Other motor vehicle |
| 2016-Oct-28, Fri, 17:42 | Clear | Angle | Non-fatal injury | Dry | South | Turning left | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2017-Jan-01, Sun,21:40 | Clear | SMV other | P.D. only | Wet | West | Going ahead | Automobile, station wagon | Skidding/sliding |
| 2017-Jan-12, Thu,08:55 | Rain | Angle | P.D. only | Wet | South | Turning left | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Pick-up truck | Other motor vehicle |
| 2016-Dec-14, Wed,23:29 | Snow | SMV other | P.D. only | Loose snow | East | Making "U" turn | Automobile, station wagon | Skidding/sliding |


| 2017-Sep-16, Sat, 14:53 | Clear | Angle | Non-fatal injury | Dry | East <br> South | Going ahead <br> Turning right | Bicycle <br> Automobile, station wagon | Other motor vehicle Cyclist |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |
| 2018-Sep-20, Thu,09:17 | Clear | Rear end | P.D. only | Dry | East | Slowing or stoppin | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | East | Going ahead | Automobile, station wagon | Other motor vehicle |  |
| 2018-Aug-23, Thu,07:31 | Clear | SMV other | Non-fatal injury | Dry | East | Turning left | Automobile, station wagon | Pedestrian | 1 |

## City Operations - Transportation Services

## Collision Details Report - Public Version

From: January 1, 2016 To: December 31, 2018
Location: AMESBROOKE DR @ MAITLAND AVE


| 2017-Oct-25, Wed, 19:30 | Clear | Sideswipe | P.D. only | Dry | East <br> East | Changing lanes <br> Going ahead | Automobile, station wagon Automobile, station wagon | Other motor vehicle <br> Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |
| 2016-Dec-09, Fri,08:45 | Clear | Rear end | P.D. only | Ice | West | Slowing or stopping | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |

Location: CAMEO DR @ MAITLAND AVE
Traffic Control: Stop sign Total Collisions: 8

| Date/Day/Time | Environment | Impact Type | Classification | Surface <br> Cond'n | Veh. Dir | Vehicle Manoeuver Vehicle type | First Event | No. Ped |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |


| 2014-Feb-14, Fri,09:42 | Snow | SMV other | P.D. only | Loose snow | North | Going ahead | Automobile, station wagon | Steel guide rail |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2014-Dec-22, Mon,15:02 | Clear | Turning movement | P.D. only | Dry | East | Turning left | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Pick-up truck | Other motor vehicle |
| 2015-Sep-09, Wed, 16:29 | Clear | Sideswipe | P.D. only | Dry | North | Changing lanes | Passenger van | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2015-Mar-20, Fri,08:10 | Clear | Angle | P.D. only | Dry | West | Turning left | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | South | Turning left | Passenger van | Other motor vehicle |
| 2015-Nov-24, Tue, 18:35 | Clear | Angle | P.D. only | Dry | South | Turning left | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2017-Feb-15, Wed, 19:57 | Snow | Angle | P.D. only | Loose snow | West | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Passenger van | Other motor vehicle |
| 2018-Nov-30, Fri,08:16 | Clear | Angle | P.D. only | Dry | West | Turning left | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2018-Sep-30, Sun, 19:05 | Rain | Rear end | P.D. only | Wet | South | Going ahead | Pick-up truck | Other motor vehicle |

## Location: CLYDE AVE @ MAITLAND AVE

Traffic Control: Yield sign Total Collisions: 10

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver Vehicle type |  | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2014-Feb-14, Fri,09:55 | Snow | Rear end | P.D. only | Loose snow | North | Going ahead | Pick-up truck | Other motor vehicle |  |
|  |  |  |  |  | North | Slowing or stopping Passenger van |  | Other motor vehicle |  |
| 2014-Jul-22, Tue,16:45 | Clear | Turning movement | P.D. only | Dry | South | Turning right | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Turning right | Automobile, station wagon | Other motor vehicle |  |
| 2015-Feb-28, Sat,04:55 | Clear | SMV other | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Steel guide rail |  |
| 2015-Sep-03, Thu,17:17 | Clear | Turning movement | Non-fatal injury | Dry | North | Turning left | Bicycle | Other motor vehicle |  |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Cyclist |  |
| 2016-Dec-08, Thu,19:18 | Snow | SMV other | P.D. only | Ice | North | Turning left | Automobile, station wagon | Steel guide rail |  |
| 2017-Oct-14, Sat, 14:35 | Clear | Sideswipe | P.D. only | Wet | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |
| 2017-Oct-27, Fri, 17:15 | Clear | Rear end | P.D. only | Dry | East | Going ahead | Automobile, station wagon | Other motor vehicle |  |


|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2017-Jul-15, Sat, 18:50 | Clear | Sideswipe | P.D. only | Dry | West | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2018-Oct-08, Mon,11:44 | Rain | SMV other | P.D. only | Wet | North | Going ahead | Automobile, station wagon | Curb |
| 2018-Aug-27, Mon,11:41 | Clear | Rear end | P.D. only | Dry | East | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Going ahead | Passenger van | Other motor vehicle |
|  |  |  |  |  | East | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |

Location: ERINDALE DR @ BASELINE RD

| Traffic Control: Stop | sign |  |  |  | Total Collisions: 15 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuve | Vehicle type | First Event | No. Ped |
| 2014-Jan-31, Fri, 16:56 | Clear | Angle | P.D. only | Loose snow | South | Turning left | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |  |
| 2014-Jan-23, Thu,11:50 | Clear | Rear end | P.D. only | Dry | West | Slowing or stoppin | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |  |
| 2014-Feb-06, Thu, 18:05 | Clear | Angle | P.D. only | Wet | South | Turning left | Pick-up truck | Other motor vehicle |  |


|  |  |  |  |  | East | Going ahead | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2014-Feb-07, Fri, 16:04 | Clear | SMV other | P.D. only | Dry | West | Going ahead | Automobile, station wagon | Skidding/sliding |
| 2014-Apr-24, Thu,07:32 | Clear | Angle | P.D. only | Dry | South | Turning left | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | East | Turning left | Automobile, station wagon | Other motor vehicle |
| 2014-Apr-26, Sat,09:21 | Rain | Angle | P.D. only | Wet | South | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Pick-up truck | Other motor vehicle |
| 2014-Dec-02, Tue,15:55 | Clear | Angle | P.D. only | Dry | West | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Municipal transit bus | Other motor vehicle |
| 2015-Jun-06, Sat, 14:50 | Clear | Angle | Non-fatal injury | Dry | South | Turning left | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Pick-up truck | Other motor vehicle |
| 2016-Oct-28, Fri, 17:42 | Clear | Angle | Non-fatal injury | Dry | South | Turning left | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2017-Jan-01, Sun,21:40 | Clear | SMV other | P.D. only | Wet | West | Going ahead | Automobile, station wagon | Skidding/sliding |


| 2017-Jan-12, Thu,08:55 | Rain | Angle | P.D. only | Wet | South | Turning left | Automobile, station wagon | Other motor vehicle |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | West | Going ahead | Pick-up truck | Other motor vehicle |  |
| 2016-Dec-14, Wed,23:29 | Snow | SMV other | P.D. only | Loose snow | East | Making "U" turn | Automobile, station wagon | Skidding/sliding |  |
| 2017-Sep-16, Sat, 14:53 | Clear | Angle | Non-fatal injury | Dry | East | Going ahead | Bicycle | Other motor vehicle |  |
|  |  |  |  |  | South | Turning right | Automobile, station wagon | Cyclist |  |
| 2018-Sep-20, Thu,09:17 | Clear | Rear end | P.D. only | Dry | East | Slowing or stopping Automobile, station wagon |  | Other motor vehicle |  |
|  |  |  |  |  | East | Going ahead | Automobile, station wagon | Other motor vehicle |  |
| 2018-Aug-23, Thu,07:31 | Clear | SMV other | Non-fatal injury | Dry | East | Turning left | Automobile, station wagon | Pedestrian | 1 |

Location: ERINDALE DR @ FORLAN DR
Traffic Control: Stop sign Total Collisions: 1

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver Vehicle type | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-Apr-24, Sun,09:32 | Clear | Rear end | Non-fatal injury | Dry | South | Slowing or stopping Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Stopped Automobile, station wagon | Other motor vehicle |  |

## Location: ERINDALE DR @ NAVAHO DR

Traffic Control: Stop sign
Total Collisions: 2

| Date/Day/Time | Environment | Impact Type | Classification | Surface <br> Cond'n | Veh. Dir | Vehicle Manoeuver Vehicle type | First Event | No. Ped |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 2016-Jun-14, Tue,09:00 | Clear | Angle | P.D. only | Dry | East | Going ahead | Passenger van | Other motor |  |
|  |  |  |  |  |  |  |  |  |  |


|  |  |  |  |  | North | Going ahead | Passenger van | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-Oct-15, Sat, 15:21 | Clear | Rear end | Non-fatal injury | Dry | South | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Slowing or stopping | Automobile, station wagon | Other motor vehicle |

## Location: ERINDALE DR btwn AINSLEY DR \& BASELINE RD

Traffic Control: No control

## Total Collisions: 1

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver Vehicle type | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-Jul-13, Wed, 16:42 | Clear | Rear end | P.D. only | Dry | North | Slowing or stopping Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Slowing or stopping Pick-up truck | Other motor vehicle |  |
|  |  |  |  |  | North | Slowing or stopping Passenger van | Other motor vehicle |  |

Location: ERINDALE DR btwn FORLAN DR \& AINSLEY DR
Traffic Control: No control
Total Collisions: 5

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuve | Vehicle type | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2014-Feb-01, Sat, 18:15 | Snow | SMV unattended vehicle | P.D. only | Loose snow | Unknown | Unknown | Unknown | Unattended vehicle |  |
| 2014-Feb-19, Wed,02:00 | Clear | SMV unattended vehicle | P.D. only | Packed snow | South | Pulling onto shoulder or toward curb | Automobile, station wagon | Unattended vehicle |  |
| 2017-Feb-16, Thu,00:00 | Snow | SMV unattended vehicle | P.D. only | Loose snow | Unknown | Unknown | Unknown | Unattended vehicle |  |
| 2018-Nov-30, Fri,00:00 | Unknown | SMV unattended vehicle | P.D. only | Other | Unknown | Unknown | Unknown | Unattended vehicle |  |


| 2018-Sep-06, Thu,07:15 | Clear | SMV unattended vehicle | P.D. only | Dry | East | Going ahead | Automobile, station wagon | Unattended vehicle |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Location: ERINDALE DR btwn NAVAHO DR \& FORLAN DR <br> Traffic Control: No control <br> Total Collisions: 2 |  |  |  |  |  |  |  |  |  |
| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuv | Vehicle type | First Event | No. Ped |
| 2015-Mar-14, Sat, 10:55 | Clear | SMV unattended vehicle | Non-fatal injury | Wet | North | Going ahead | Pick-up truck | Unattended vehicle |  |
| 2017-Oct-12, Thu, 13:54 | Clear | Turning movement | P.D. only | Dry | South | Turning left | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |

## Location: ERINDALE DR btwn NAVAHO DR \& MAITLAND AVE

Traffic Control: No control
Total Collisions: 1

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver Vehicle type |  | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-May-11, Wed,21:02 | Clear | Approaching | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |

Location: HENRY FARM DR @ MAITLAND AVE
Traffic Control: Stop sign
Total Collisions: 4

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver | Vehicle type | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2017-Sep-08, Fri, 13:11 | Clear | Rear end | Non-fatal injury | Dry | West | Slowing or stopping | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | West | Stopped | Passenger van | Other motor vehicle |  |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |  |


| 2017-Dec-24, Sun, 16:33 | Clear | SMV other | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Curb |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2018-Mar-14, Wed,21:12 | Clear | Rear end | P.D. only | Wet | North | Slowing or stopping | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |  |
| 2018-Mar-11, Sun,17:32 | Clear | Angle | P.D. only | Dry | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | East | Turning left | Automobile, station wagon | Other motor vehicle |  |
| Location: MAITLA | ND AVE @ | RREBONNE DR |  |  |  |  |  |  |  |
| Traffic Control: Stop | sign |  |  |  |  |  | Total C | llisions: 6 |  |
| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuve | Vehicle type | First Event | No. Ped |
| 2015-Jan-13, Tue, 16:15 | Clear | Rear end | P.D. only | Packed snow | East | Slowing or stopping | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |  |
| 2016-Jan-29, Fri, 11:59 | Clear | Sideswipe | P.D. only | Wet | North | Changing lanes | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Going ahead | Pick-up truck | Other motor vehicle |  |
| 2015-Dec-21, Mon,17:10 | Rain | Turning movement | P.D. only | Wet | North | Turning left | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |
| 2017-Aug-18, Fri, 15:54 | Clear | Rear end | Non-fatal injury | Wet | North | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Turning left | Automobile, station wagon | Other motor vehicle |  |


| 2017-Feb-23, Thu,00:00 | Clear | SMV unattended <br> vehicle | P.D. only | Dry | Unknown | Unknown | Unknown |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## Location: MAITLAND AVE btwn AMESBROOKE DR \& HENRY FARM DR

Traffic Control: No control
Total Collisions: 5

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver | Vehicle type | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2014-May-15, Thu,18:32 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |  |
| 2015-Jan-14, Wed, 15:00 | Clear | Rear end | P.D. only | Ice | North | Changing lanes | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Stopped | Pick-up truck | Other motor vehicle |  |
| 2016-Aug-22, Mon,19:50 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |
| 2018-Jan-10, Wed, 14:10 | Clear | Sideswipe | P.D. only | Loose snow | East | Stopped | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | East | Going ahead | Automobile, station wagon | Other motor vehicle |  |


| 2018-Nov-23, Fri, 16:43 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| Location: MAITLAND AVE btwn CAMEO DR \& CLYDE AVE |  |  |  |  |  |  |  |  |
| Traffic Control: No control |  |  |  |  | Total Collisions: 6 |  |  |  |
| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuve | Vehicle type | First Event No. Ped |
| 2015-Apr-13, Mon, 12:30 | Clear | Sideswipe | P.D. only | Dry | West | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2015-Nov-12, Thu,17:56 | Clear | Sideswipe | P.D. only | Dry | North | Going ahead | Truck - open | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2016-Sep-27, Tue,05:30 | Rain | SMV other | P.D. only | Wet | South | Going ahead | Automobile, station wagon | Skidding/sliding |
| 2016-Jun-03, Fri, 19:56 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Tow truck | Other motor vehicle |
| 2018-Nov-24, Sat,07:50 | Clear | SMV other | P.D. only | Dry | South | Going ahead | Automobile, station wagon | Steel guide rail |
| 2018-Dec-14, Fri, 10:30 | Freezing Rain | SMV other | P.D. only | Loose snow | South | Going ahead | Automobile, station wagon | Curb |

Location: MAITLAND AVE btwn GLENMOUNT AVE \& AMESBROOKE DR

| Traffic Control: No | control |  |  |  | Total Collisions: 4 |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver | Vehicle type | First Event | No. Ped |
| 2016-May-21, Sat, 18:45 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Pick-up truck | Other motor vehicle |  |
|  |  |  |  |  | South | Going ahead | Pick-up truck | Other motor vehicle |  |
| 2016-Apr-16, Sat, 10:21 | Clear | Sideswipe | P.D. only | Dry | North | Changing lanes | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Going ahead | Pick-up truck | Other motor vehicle |  |
| 2016-Nov-09, Wed, 11:31 | Clear | Sideswipe | P.D. only | Dry | South | Unknown | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |
| 2016-Nov-14, Mon, 14:09 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |  |

## Location: MAITLAND AVE btwn HENRY FARM DR \& TERREBONNE DR

Traffic Control: No control
Total Collisions: 4

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver | Vehicle type | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2015-Mar-05, Thu,07:57 | Clear | Other | P.D. only | Dry | South | Reversing | Pick-up truck | Other motor vehicle |  |
|  |  |  |  |  | North | Reversing | Automobile, station wagon | Other motor vehicle |  |
| 2016-May-10, Tue,14:45 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Automobile, station wagon | Other motor vehicle |  |


|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2017-Aug-20, Sun,21:24 | Clear | Sideswipe | Non-fatal injury | Dry | North | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Motorcycle | Other motor vehicle |
| 2018-Sep-20, Thu, 11:00 | Clear | Sideswipe | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |

Location: MAITLAND AVE btwn TERREBONNE DR \& CAMEO DR
Traffic Control: No control
Total Collisions: 8

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuv | Vehicle type | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2014-Jan-07, Tue,14:56 | Clear | Turning movement | P.D. only | Dry | North | Turning left | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |  |
| 2014-Oct-16, Thu,18:30 | Rain | Rear end | P.D. only | Wet | North | Slowing or stopping Pick-up truck |  | Other motor vehicle |  |
|  |  |  |  |  | North | Stopped | Pick-up truck | Other motor vehicle |  |
| 2015-Jun-22, Mon,09:23 | Clear | Rear end | Non-fatal injury | Dry | North | Going ahead | Passenger van | Other motor vehicle |  |
|  |  |  |  |  | North | Turning left | Automobile, station wagon | Other motor vehicle |  |
| 2015-Nov-18, Wed, 17:30 | Clear | Sideswipe | P.D. only | Dry | North | Changing lanes | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Going ahead | Pick-up truck | Other motor vehicle |  |


| 2016-Jun-15, Wed, 15:16 | Clear | SMV other | Non-fatal injury | Dry | South | Reversing | Pick-up truck | Pedestrian | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2016-Jul-22, Fri, 17:44 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Stopped | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Stopped | Automobile, station wagon | Other motor vehicle |  |
| 2016-Jul-22, Fri, 18:59 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | North | Slowing or stoppin | Pick-up truck | Other motor vehicle |  |
| 2016-Nov-13, Sun,09:29 | Clear | Approaching | Non-fatal injury | Dry | North | Going ahead | Automobile, station wagon | Other |  |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |

## Location: MAITLAND AVE/GLENMOUNT AVE @ ERINDALE DR

Traffic Control: Traffic signal
Total Collisions: 41

| Date/Day/Time | Environment | Impact Type | Classification | Surface Cond'n | Veh. Dir | Vehicle Manoeuver | Vehicle type | First Event | No. Ped |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2014-Feb-09, Sun,16:04 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |  |
|  |  |  |  |  | South | Stopped | Automobile, station wagon | Other motor vehicle |  |
| 2014-Feb-07, Fri, 16:40 | Clear | Turning movement | P.D. only | Dry | North | Turning left | Automobile, station wagon | Other motor vehicle |  |


|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2014-Apr-01, Tue, 16:30 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2014-Jun-04, Wed, 16:06 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Turning left | Automobile, station wagon | Other motor vehicle |
| 2014-Sep-14, Sun,16:19 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Automobile, station wagon | Other motor vehicle |
| 2015-Jan-16, Fri, 15:38 | Clear | Rear end | P.D. only | Wet | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| 2014-Dec-07, Sun,08:00 | Clear | Rear end | P.D. only | Dry | South | Slowing or stopping | Passenger van | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Pick-up truck | Other motor vehicle |
| 2015-Feb-23, Mon,08:15 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |


| 2015-Mar-22, Sun,13:46 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Passenger van | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2015-Sep-02, Wed, 10:15 | Clear | Rear end | P.D. only | Dry | North | Slowing or stopping Pick-up truck |  | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| 2015-Apr-04, Sat,00:02 | Rain | Angle | Non-fatal injury | Wet | West | Turning right | Pick-up truck | Cyclist |
|  |  |  |  |  | South | Going ahead | Bicycle | Other motor vehicle |
| 2015-Aug-06, Thu, 11:02 | Clear | Angle | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Turning left | Automobile, station wagon | Other motor vehicle |
| 2016-Aug-03, Wed,08:01 | Clear | Rear end | P.D. only | Dry | North | Going ahead | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | North | Turning left | Automobile, station wagon | Other motor vehicle |
| 2016-Aug-17, Wed, 18:11 | Clear | Angle | P.D. only | Dry | East | Turning right | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2015-Dec-16, Wed,09:08 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |


| 2016-Jun-29, Wed, 17:08 | Clear | Turning movement | Non-fatal injury | Dry | North | Turning left | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2016-Jul-04, Mon,16:05 | Clear | Rear end | P.D. only | Dry | East | Going ahead | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | East | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
| 2016-Jul-03, Sun, 13:00 | Clear | Sideswipe | P.D. only | Dry | North | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2016-Nov-04, Fri, 10:00 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Passenger van | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Changing lanes | Passenger van | Other |
| 2017-Oct-05, Thu, 17:05 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2016-Dec-09, Fri,07:48 | Clear | Rear end | P.D. only | Ice | South | Stopped | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2017-Mar-06, Mon,09:25 | Clear | Rear end | Non-fatal injury | Dry | South | Going ahead | Pick-up truck | Other motor vehicle |
|  |  |  |  |  | South | Stopped | Automobile, station wagon | Other motor vehicle |


| 2017-May-23, Tue,17:33 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Pick-up truck | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | South | Going ahead | Pick-up truck | Other motor vehicle |
| 2017-Jun-20, Tue, 12:25 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2017-Nov-30, Thu,09:31 | Clear | Rear end | Non-fatal injury | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Stopped | Automobile, station wagon | Other motor vehicle |
| 2017-Dec-04, Mon,09:25 | Clear | Rear end | P.D. only | Dry | West | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | West | Stopped | Automobile, station wagon | Other motor vehicle |
| 2017-Dec-04, Mon,17:23 | Clear | Rear end | Non-fatal injury | Dry | North | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Turning right | Automobile, station wagon | Other motor vehicle |
| 2017-Sep-29, Fri,20:34 | Rain | Turning movement | P.D. only | Wet | South | Turning left | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2018-Jan-05, Fri, 13:00 | Clear | Turning movement | P.D. only | Dry | South | Turning left | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |



| 2018-Sep-14, Fri,20:51 | Clear | Rear end | P.D. only | Dry | South | Going ahead | Automobile, station wagon | Other motor vehicle |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | South | Slowing or stopping | Automobile, station wagon | Other motor vehicle |
| 2018-Sep-26, Wed,20:00 | Clear | Angle | P.D. only | Dry | North | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Turning left | Automobile, station wagon | Other motor vehicle |
| 2018-Dec-17, Mon,14:04 | Clear | Approaching | P.D. only | Wet | South | Turning right | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | North | Going ahead | Automobile, station wagon | Other motor vehicle |
| 2018-Aug-27, Mon,13:27 | Clear | Rear end | P.D. only | Dry | East | Going ahead | Automobile, station wagon | Other motor vehicle |
|  |  |  |  |  | East | Stopped | Automobile, station wagon | Other motor vehicle |
| 2018-Jul-20, Fri, 17:45 | Clear | Sideswipe | P.D. only | Dry | South | Changing lanes | Delivery van | Other motor vehicle |
|  |  |  |  |  | South | Going ahead | Automobile, station wagon | Other motor vehicle |

## APPENDIX E

BACKGROUND GROWTH ANALYSIS

Baseline/ Clyde
8 hrs

| Year | Date | North Leg |  | South Leg |  | East Leg |  | West Leg |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | SB | NB | NB | SB | WB | EB | EB | WB |  |
| 2014 | Thursday, July 31 | 12024 | 9569 | 7276 | 10307 | 15695 | 11014 | 8128 | 12233 | 86246 |
| 2016 | Wednesday, October 26 | 8363 | 9911 | 7994 | 7512 | 10444 | 10086 | 9431 | 8723 | 72464 |
| 2019 | Wednesday, August 21 | 7483 | 10200 | 7918 | 6832 | 9992 | 9750 | 9307 | 7918 | 69400 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |


| North Leg | Year | Counts |  |  |  | \% Change |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | NB | SB | NB+SB | INT | NB | SB | NB+SB | INT |
|  | $\begin{aligned} & 2014 \\ & 2016 \\ & 2019 \end{aligned}$ | $\begin{gathered} \hline 9569 \\ 9911 \\ 10200 \end{gathered}$ | $\begin{gathered} \hline 12024 \\ 8363 \\ 7483 \end{gathered}$ | $\begin{aligned} & 21593 \\ & 18274 \\ & 17683 \end{aligned}$ | $\begin{aligned} & 86246 \\ & 72464 \\ & 69400 \end{aligned}$ | $\begin{aligned} & 3.6 \% \\ & 2.9 \% \end{aligned}$ | $\begin{aligned} & -30.4 \% \\ & -10.5 \% \end{aligned}$ | $\begin{aligned} & -15.4 \% \\ & -3.2 \% \end{aligned}$ | $\begin{aligned} & -16.0 \% \\ & -4.2 \% \end{aligned}$ |
| Regression Estimate | 2014 | $\begin{array}{rrr} 9604 & 11296 & 20900 \\ 10224 & 6998 & 17221 \end{array}$ |  |  |  |  |  |  |  |
| Regression Estimate | 2019 |  |  |  |  |  |  |  |  |
| Average Annual Change | $1.26 \%$ |  | -9.13\% -3.80\% |  |  |  |  |  |  |
| West Leg | Year |  |  |  |  | \% Change |  |  |  |
|  |  | EB ${ }^{\text {c }}$ Counts |  |  | INT | EB | WB | $E B+W B$ | INT |
|  | $\begin{aligned} & 2014 \\ & 2016 \end{aligned}$ | $\begin{aligned} & \hline 8128 \\ & 9431 \end{aligned}$ | $\begin{gathered} 12233 \\ 8723 \end{gathered}$ | $\begin{aligned} & 20361 \\ & 18154 \end{aligned}$ | $\begin{aligned} & 86246 \\ & 72464 \end{aligned}$ | 16.0\% | -28.7\% | $\begin{aligned} & -10.8 \% \\ & -5.1 \% \end{aligned}$ | $\begin{aligned} & -16.0 \% \\ & -4.2 \% \end{aligned}$ |
|  | 2019 | 9307 | 7918 | 17225 | 69400 | -1.3\% | -9.2\% |  |  |
| Regression Estimate | $\begin{aligned} & 2014 \\ & 2019 \end{aligned}$ | $\begin{aligned} & 8456 \\ & 9526 \\ & \mathbf{2 . 4 1 \%} \end{aligned}$ | $\begin{array}{r} 11529 \\ 7449 \end{array}$ | 19985 |  |  |  |  |  |
| Regression Estimate |  |  |  | 16974 |  |  |  |  |  |
| Average Annual Change |  |  | -8.37\% | -3.21\% |  |  |  |  |  |
| East Leg | Year | Counts |  |  |  | \% Change |  |  |  |
|  |  | EB | WB | EB+WB | INT | EB | WB | EB+WB | INT |
|  | $\begin{aligned} & \hline 2014 \\ & 2016 \\ & 2019 \end{aligned}$ | $\begin{gathered} 11014 \\ 10086 \\ 9750 \end{gathered}$ | $\begin{aligned} & 15695 \\ & 10444 \end{aligned}$ $9992$ | $\begin{aligned} & 26709 \\ & 20530 \\ & 19742 \end{aligned}$ | $\begin{aligned} & 86246 \\ & 72464 \end{aligned}$ $69400$ | -8.4\% | $\begin{aligned} & -33.5 \% \\ & -4.3 \% \end{aligned}$ | -23.1\% | $\begin{aligned} & -16.0 \% \\ & -4.2 \% \end{aligned}$ |
| Regression Estimate | 2014 | 10847 | 14523 | 25370 |  |  |  |  |  |
| Regression Estimate | 2019 | 9639 | 9210 | 18849 |  |  |  |  |  |
| Average Annual Change |  | -2.33\% | -8.71\% | -5.77\% |  |  |  |  |  |
|  | Year |  | Cou |  |  |  |  | nge |  |
| South Leg |  | NB | SB | NB+SB | INT | NB | SB | NB+SB | INT |
|  | 2014 | 7276 | 10307 | 17583 | 86246 |  |  |  |  |
|  | 2016 | 7994 | 7512 | 15506 | 72464 | 9.9\% | -27.1\% | -11.8\% | -16.0\% |
|  | 2019 | 7918 | 6832 | 14750 | 69400 | -1.0\% | -9.1\% | -4.9\% | -4.2\% |
| Regression Estimate | 2014 | 7458 | 9752 | 17210 |  |  |  |  |  |
| Regression Estimate | 2019 | 8039 | 6462 | 14502 |  |  |  |  |  |
| Average Annual Change |  | 1.51\% | -7.90\% | -3.37\% |  |  |  |  |  |

Baseline/ Clyde
AM Peak

| Year | Date | North Leg |  | South Leg |  | East Leg |  | West Leg |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | SB | NB | NB | SB | WB | EB | EB | WB |  |
| 2014 | Thursday, July 31 | 1196 | 1130 | 624 | 881 | 1729 | 1279 | 862 | 1121 | 8822 |
| 2016 | Wednesday, October 26 | 1112 | 1334 | 946 | 828 | 1091 | 1650 | 1484 | 821 | 9266 |
| 2019 | Wednesday, August 21 | 816 | 1288 | 914 | 642 | 914 | 1475 | 1370 | 609 | 8028 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |



Baseline/ Clyde
PM Peak

| Year | Date | North Leg |  | South Leg |  | East Leg |  | West Leg |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | SB | NB | NB | SB | WB | EB | EB | WB |  |
| 2014 | Thursday, July 31 | 1584 | 1575 | 1106 | 1330 | 3250 | 1512 | 1152 | 2675 | 14184 |
| 2016 | Wednesday, October 26 | 1138 | 1459 | 1165 | 1013 | 1822 | 1224 | 1135 | 1564 | 10520 |
| 2019 | Wednesday, August 21 | 1063 | 1476 | 1143 | 955 | 1794 | 1297 | 1245 | 1517 | 10490 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |


| North Leg | Year | Counts |  |  |  | \% Change |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | NB | SB | NB+SB | INT | NB | SB | NB+SB | INT |
|  | $\begin{aligned} & 2014 \\ & 2016 \\ & 2019 \end{aligned}$ | $\begin{aligned} & 1575 \\ & 1459 \\ & 1476 \end{aligned}$ | $\begin{aligned} & 1584 \\ & 1138 \\ & 1063 \end{aligned}$ | $\begin{aligned} & 3159 \\ & 2597 \\ & 2539 \end{aligned}$ | $\begin{aligned} & 14184 \\ & 10520 \\ & 10490 \end{aligned}$ | $\begin{gathered} -7.4 \% \\ 1.2 \% \end{gathered}$ | $\begin{aligned} & -28.2 \% \\ & -6.6 \% \end{aligned}$ | $\begin{aligned} & -17.8 \% \\ & -2.2 \% \end{aligned}$ | $\begin{aligned} & -25.8 \% \\ & -0.3 \% \end{aligned}$ |
| Regression Estimate Regression Estimate | 2014 2019 | $\begin{aligned} & 1545 \\ & 1456 \end{aligned}$ | $\begin{aligned} & 1490 \\ & 1000 \end{aligned}$ | 3035 2456 |  |  |  |  |  |
| Average Annual Change | -1.18\% |  | -7.66\% -4.14\% |  |  |  |  |  |  |
| West Leg | Year |  |  |  |  | \% Change |  |  |  |
|  |  | EB | WB Counts |  | INT | EB | WB | EB+WB | I NT |
|  | $\begin{aligned} & \hline 2014 \\ & 2016 \\ & 2019 \end{aligned}$ | $\begin{aligned} & 1152 \\ & 1135 \\ & 1245 \end{aligned}$ | $\begin{aligned} & 2675 \\ & 1564 \\ & 1517 \end{aligned}$ | $\begin{aligned} & 3827 \\ & 2699 \\ & 2762 \end{aligned}$ | $\begin{aligned} & \hline 14184 \\ & 10520 \\ & 10490 \end{aligned}$ | $\begin{gathered} -1.5 \% \\ 9.7 \% \end{gathered}$ | $\begin{aligned} & -41.5 \% \\ & -3.0 \% \end{aligned}$ | $\begin{gathered} -29.5 \% \\ 2.3 \% \end{gathered}$ | $\begin{aligned} & -25.8 \% \\ & -0.3 \% \end{aligned}$ |
| Regression Estimate | $\begin{aligned} & 2014 \\ & 2019 \end{aligned}$ | $\begin{aligned} & 1131 \\ & 1231 \\ & \mathbf{1 . 7 1 \%} \end{aligned}$ | 24191347$-\mathbf{- 1 1 . 0 6 \%}$ | $3550$ |  |  |  |  |  |
| Regression Estimate |  |  |  | $\begin{aligned} & 2577 \\ & -6.20 \% \end{aligned}$ |  |  |  |  |  |
| Average Annual Change |  |  |  |  |  |  |  |  |  |
| East Leg | Year | Counts |  |  |  | \% Change |  |  |  |
|  |  | EB | WB | EB+WB | INT | EB | WB | EB+WB | INT |
|  | $\begin{aligned} & 2014 \\ & 2016 \\ & 2019 \end{aligned}$ | $\begin{aligned} & 1512 \\ & 1224 \\ & 1297 \end{aligned}$ | $\begin{aligned} & \hline 3250 \\ & 1822 \\ & 1794 \end{aligned}$ | $\begin{aligned} & 4762 \\ & 3046 \\ & 3091 \end{aligned}$ | $\begin{aligned} & 14184 \\ & 10520 \\ & 10490 \end{aligned}$ | $\begin{gathered} -19.0 \% \\ 6.0 \% \end{gathered}$ | $\begin{aligned} & -43.9 \% \\ & -1.5 \% \end{aligned}$ | $\begin{gathered} -36.0 \% \\ 1.5 \% \end{gathered}$ | $\begin{aligned} & -25.8 \% \\ & -0.3 \% \end{aligned}$ |
| Regression Estimate | $\begin{aligned} & 2014 \\ & 2019 \end{aligned}$ | $\begin{aligned} & 1432 \\ & 1244 \end{aligned}$ | $\begin{aligned} & 2916 \\ & 1571 \end{aligned}$ | 4348 |  |  |  |  |  |
| Regression Estimate |  |  |  | -8.33\% ${ }^{2815}$ |  |  |  |  |  |
| Average Annual Change |  | -2.78\% | -11.63\% |  |  |  |  |  |  |
| South Leg | Year | Counts |  |  |  | \% Change |  |  |  |
|  |  | NB | SB | NB+SB | INT | NB | SB | NB+SB | INT |
|  | 2014 | 1106 | 1330 | 2436 | 14184 |  |  |  |  |
|  | 2016 | 1165 | 1013 | 2178 | 10520 | 5.3\% | -23.8\% | -10.6\% | -25.8\% |
|  | 2019 | 1143 | 955 | 2098 | 10490 | -1.9\% | -5.7\% | -3.7\% | -0.3\% |
| Regression Estimate | 2014 | 1123 | 1264 | 2388 |  |  |  |  |  |
| Regression Estimate | 2019 | 1155 | 911 | 2066 |  |  |  |  |  |
| Average Annual Change | 0.55\% |  | -6.34\% | -2.85\% |  |  |  |  |  |

## APPENDIX F

TDM MEASURES CHECKLIST

## TDM Measures Checklist:

Residential Developments (multi-family, condominium or subdivision)

## Legend

> | BASIC | $\begin{array}{l}\text { The measure is generally feasible and effective, and in most } \\ \text { cases would benefit the development and its users }\end{array}$ |
| :--- | :--- |
| BETTER | $\begin{array}{l}\text { The measure could maximize support for users of sustainable } \\ \text { modes, and optimize development performance }\end{array}$ |
| * | The measure is one of the most dependably effective tools to |
| encourage the use of sustainable modes |  |

| TDM measures: Residential developments |  |  | Check if proposed \& add descriptions |
| :---: | :---: | :---: | :---: |
| 1. TDM PROGRAM MANAGEMENT |  |  |  |
| 1.1 Program coordinator |  |  |  |
| BASIC | * 1.1.1 | Designate an internal coordinator, or contract with an external coordinator | $\square$ |
| 1.2 Travel surveys |  |  |  |
| BETTER | 1.2.1 | Conduct periodic surveys to identify travel-related behaviours, attitudes, challenges and solutions, and to track progress | $\square$ |
| 2. WALKING AND CYCLING |  |  |  |
| 2.1 Information on walking/cycling routes \& destinations |  |  |  |
| BASIC | 2.1.1 | Display local area maps with walking/cycling access routes and key destinations at major entrances (multi-family, condominium) | $\square$ |
|  | 2.2 | Bicycle skills training |  |
| BETTER | 2.2.1 | Offer on-site cycling courses for residents, or subsidize off-site courses | $\square$ |


| TDM measures: Residential developments |  |  |  | Check if proposed \& add descriptions |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 3. | TRANSIT |  |  |
|  |  | 3.1 | Transit information |  |  |
| BASIC |  | 3.1.1 | Display relevant transit schedules and route maps at entrances (multi-family, condominium) | $\square$ |  |
| BETTER |  | 3.1.2 | Provide real-time arrival information display at entrances (multi-family, condominium) | $\square$ |  |
|  |  | 3.2 | Transit fare incentives |  |  |
| BASIC | $\star$ | 3.2.1 | Offer PRESTO cards preloaded with one monthly transit pass on residence purchase/move-in, to encourage residents to use transit | $\square$ |  |
| BETTER |  | 3.2.2 | Offer at least one year of free monthly transit passes on residence purchase/move-in | $\square$ |  |
|  |  | 3.3 | Enhanced public transit service |  |  |
| BETTER | * | 3.3.1 | Contract with OC Transpo to provide early transit services until regular services are warranted by occupancy levels (subdivision) | $\square$ |  |
|  |  | 3.4 | Private transit service |  |  |
| BETTER |  | 3.4.1 | Provide shuttle service for seniors homes or lifestyle communities (e.g. scheduled mall or supermarket runs) | $\square$ |  |
|  |  | 4. | CARSHARING \& BIKESHARING |  |  |
|  |  | 4.1 | Bikeshare stations \& memberships |  |  |
| BETTER |  | 4.1.1 | Contract with provider to install on-site bikeshare station (multi-family) | $\square$ |  |
| BETTER |  | 4.1.2 | Provide residents with bikeshare memberships, either free or subsidized (multi-family) | $\square$ |  |
|  |  | 4.2 | Carshare vehicles \& memberships |  |  |
| BETTER |  | 4.2.1 | Contract with provider to install on-site carshare vehicles and promote their use by residents | $\square$ |  |
| BETTER |  | 4.2.2 | Provide residents with carshare memberships, either free or subsidized | $\square$ |  |
|  |  | 5. | PARKING |  |  |
|  |  | 5.1 | Priced parking |  |  |
| BASIC | * | 5.1.1 | Unbundle parking cost from purchase price (condominium) | $\square$ |  |
| BASIC | * | 5.1.2 | Unbundle parking cost from monthly rent (multi-family) | $\square$ |  |

TDM measures: Residential developments Check if proposed \& add descriptions

## 6. TDM MARKETING \& COMMUNICATIONS

### 6.1 Multimodal travel information

| BASIC | $\star 6.1 .1$ | Provide a multimodal travel option information <br> package to new residents | $\square$ |
| :--- | :--- | :--- | :--- |
|  | 6.2 | Personalized trip planning |  |

## APPENDIX G

SYNCHRO ANALYSIS RESULTS

## Existing Conditions

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
\# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.



Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 51.5\%
ICU Level of Service A
Analysis Period (min) 15


|  | 4 | 4 | $\downarrow$ |
| :---: | :---: | :---: | :---: |
| Lane Group | NBL | NBT | SBT |
| Lane Configurations | \% | 个4 | 个 $\hat{+}$ |
| Traffic Volume (vph) | 17 | 1257 | 888 |
| Future Volume (vph) | 17 | 1257 | 888 |
| Lane Group Flow (vph) | 19 | 1397 | 990 |
| Sign Control |  | Free | Free |

Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 40.0\% ICU Level of Service A
Analysis Period (min) 15


|  | $\rangle$ | 4 | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | NBT | SBT |  |
| Lane Configurations | \% | 个4 | 中 ${ }^{\text {a }}$ |  |
| Traffic Volume (vph) | 0 | 1274 | 877 |  |
| Future Volume (vph) | 0 | 1274 | 877 |  |
| Lane Group Flow (vph) | 42 | 1416 | 986 |  |
| Sign Control | Stop | Free | Free |  |
| Intersection Summary |  |  |  |  |
| Control Type: Unsignalized |  |  |  |  |
| Intersection Capacity Utilization 47.2\% Analysis Period (min) 15 |  |  |  | ICU Level of Service A |
|  |  |  |  |  |



|  | $\rightarrow$ | $\leftarrow$ | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBT | WBT | SBR |  |
| Lane Configurations | 个个 | 个4 | 「 |  |
| Traffic Volume（vph） | 1370 | 613 | 8 |  |
| Future Volume（vph） | 1370 | 613 | 8 |  |
| Lane Group Flow（vph） | 1522 | 681 | 9 |  |
| Sign Control | Free | Free |  |  |
| Intersection Summary |  |  |  |  |
| Control Type：Unsignalized |  |  |  |  |
| Intersection Capacity Utilization 43．3\％ Analysis Period（min） 15 |  |  |  | ICU Level of Service A |
|  |  |  |  |  |



|  | 4 |  | 4 |  | 4 | $\dagger$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT |
| Lane Configurations | ${ }^{*}$ | $\uparrow$ | ${ }^{4} 1$ | $\uparrow$ | ${ }^{1}$ | 44 | 「 | ${ }^{*}$ | 中 ${ }^{\text {F }}$ |
| Traffic Volume (vph) | 31 | 68 | 390 | 34 | 1 | 861 | 667 | 46 | 697 |
| Future Volume (vph) | 31 | 68 | 390 | 34 | 1 | 861 | 667 | 46 | 697 |
| Lane Group Flow (vph) | 34 | 97 | 433 | 112 | 1 | 957 | 741 | 51 | 782 |
| Turn Type | Prot | NA | Prot | NA | Perm | NA | Perm | Perm | NA |
| Protected Phases | 7 | 4 | 3 | 8 |  | 2 |  |  | 6 |
| Permitted Phases |  |  |  |  | 2 |  | 2 | 6 |  |
| Detector Phase | 7 | 4 | 3 | 8 | 2 | 2 | 2 | 6 | 6 |
| Switch Phase |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) | 5.0 | 10.0 | 5.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 11.8 | 33.8 | 11.2 | 33.2 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Total Split (s) | 33.0 | 34.0 | 33.0 | 34.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 |
| Total Split (\%) | 25.4\% | 26.2\% | 25.4\% | 26.2\% | 48.5\% | 48.5\% | 48.5\% | 48.5\% | 48.5\% |
| Yellow Time (s) | 3.0 | 3.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| All-Red Time (s) | 3.8 | 3.8 | 2.5 | 2.5 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.8 | 6.8 | 6.2 | 6.2 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lead | Lag |  |  |  |  |  |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes |  |  |  |  |  |
| Recall Mode | None | None | None | None | C-Max | C-Max | C-Max | C-Max | C-Max |
| Act Effct Green (s) | 8.1 | 12.6 | 22.1 | 31.8 | 76.3 | 76.3 | 76.3 | 76.3 | 76.3 |
| Actuated g/C Ratio | 0.06 | 0.10 | 0.17 | 0.24 | 0.59 | 0.59 | 0.59 | 0.59 | 0.59 |
| v/c Ratio | 0.32 | 0.55 | 0.77 | 0.25 | 0.00 | 0.48 | 0.62 | 0.21 | 0.39 |
| Control Delay | 65.6 | 61.7 | 61.2 | 18.7 | 14.0 | 17.4 | 3.7 | 17.7 | 16.0 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 65.6 | 61.7 | 61.2 | 18.7 | 14.0 | 17.4 | 3.7 | 17.7 | 16.0 |
| LOS | E | E | E | B | B | B | A | B | B |
| Approach Delay |  | 62.7 |  | 52.5 |  | 11.4 |  |  | 16.1 |
| Approach LOS |  | E |  | D |  | B |  |  | B |
| Queue Length 50th (m) | 8.5 | 21.7 | 55.2 | 9.1 | 0.1 | 70.0 | 0.0 | 5.8 | 53.2 |
| Queue Length 95th (m) | 19.0 | 38.4 | 70.2 | 24.0 | 1.1 | 103.0 | 18.2 | 16.2 | 79.7 |
| Internal Link Dist (m) |  | 203.2 |  | 249.5 |  | 171.9 |  |  | 387.0 |
| Turn Bay Length (m) | 30.0 |  | 85.0 |  | 75.0 |  |  | 75.0 |  |
| Base Capacity (vph) | 341 | 369 | 677 | 448 | 318 | 1990 | 1196 | 245 | 1986 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.10 | 0.26 | 0.64 | 0.25 | 0.00 | 0.48 | 0.62 | 0.21 | 0.39 |
| Intersection Summary |  |  |  |  |  |  |  |  |  |
| Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Offset: 9 (7\%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 80 |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.77 |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 21.7 |  |  |  | Intersection LOS: C |  |  |  |  |  |
| Intersection Capacity Utilization 75.9\% |  |  |  | ICU Level of Service D |  |  |  |  |  |
| Analysis Period (min) 15 |  |  |  |  |  |  |  |  |  |

Splits and Phases: 7: Merivale Rd \& Lotta Ave \& Clyde Ave



Splits and Phases: 8: Erindale Dr \& Maitland Ave



Splits and Phases: 9: Maitland Ave \& Glenmount Ave


~ Volume exceeds capacity, queue is theoretically infinite. Queue shown is maximum after two cycles.
\# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

Splits and Phases: 1: Clyde Ave \& Baseline Rd



Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 56.6\%
ICU Level of Service B
Analysis Period (min) 15


|  | 4 | 4 | $\downarrow$ |
| :---: | :---: | :---: | :---: |
| Lane Group | NBL | NBT | SBT |
| Lane Configurations | ${ }^{7}$ | 个4 | 个t |
| Traffic Volume (vph) | 53 | 1395 | 922 |
| Future Volume (vph) | 53 | 1395 | 922 |
| Lane Group Flow (vph) | 59 | 1550 | 1044 |
| Sign Control |  | Free | Free |

Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 44.0\% ICU Level of Service A
Analysis Period (min) 15


|  | 4 | $\dagger$ | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | NBT | SBT |  |
| Lane Configurations | \% | 个 $\uparrow$ | 中 ${ }^{\text {P }}$ |  |
| Trafic Volume (vph) | 0 | 1448 | 911 |  |
| Future Volume (vph) | 0 | 1448 | 911 |  |
| Lane Group Flow (vph) | 81 | 1609 | 1024 |  |
| Sign Control | Stop | Free | Free |  |
| Intersection Summary |  |  |  |  |
| Control Type: Unsignalized |  |  |  |  |
| Intersection Capacity Utilization 53.7\% Analysis Period (min) 15 |  |  |  | ICU Level of Service A |
|  |  |  |  |  |





|  | 4 |  | 7 |  | 4 | 4 |  | ( |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT |
| Lane Configurations | ${ }^{*}$ | F | ${ }^{4} 1$ | $\uparrow$ | ${ }^{1}$ | 44 | 「 | ${ }^{*}$ | 中 ${ }^{\text {F }}$ |
| Traffic Volume (vph) | 37 | 57 | 801 | 130 | 64 | 791 | 611 | 90 | 850 |
| Future Volume (vph) | 37 | 57 | 801 | 130 | 64 | 791 | 611 | 90 | 850 |
| Lane Group Flow (vph) | 41 | 99 | 890 | 334 | 71 | 879 | 679 | 100 | 966 |
| Turn Type | Prot | NA | Prot | NA | pm+pt | NA | Perm | pm+pt | NA |
| Protected Phases | 7 | 4 | 3 | 8 | 5 | 2 |  | 1 | 6 |
| Permitted Phases |  |  |  |  | 2 |  | 2 | 6 |  |
| Detector Phase | 7 | 4 | 3 | 8 | 5 | 2 | 2 | 1 | 6 |
| Switch Phase |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) | 5.0 | 10.0 | 5.0 | 10.0 | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 |
| Minimum Split (s) | 11.8 | 33.8 | 11.2 | 33.2 | 11.0 | 30.0 | 30.0 | 11.0 | 30.0 |
| Total Split (s) | 44.0 | 34.0 | 44.0 | 34.0 | 12.0 | 40.0 | 40.0 | 12.0 | 40.0 |
| Total Split (\%) | 33.8\% | 26.2\% | 33.8\% | 26.2\% | 9.2\% | 30.8\% | 30.8\% | 9.2\% | 30.8\% |
| Yellow Time (s) | 3.0 | 3.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| All-Red Time (s) | 3.8 | 3.8 | 2.5 | 2.5 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.8 | 6.8 | 6.2 | 6.2 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Recall Mode | None | None | None | None | None | C-Max | C-Max | None | C-Max |
| Act Effct Green (s) | 8.6 | 12.4 | 37.1 | 43.3 | 53.6 | 45.0 | 45.0 | 58.4 | 49.4 |
| Actuated g/C Ratio | 0.07 | 0.10 | 0.29 | 0.33 | 0.41 | 0.35 | 0.35 | 0.45 | 0.38 |
| v/c Ratio | 0.37 | 0.56 | 0.95 | 0.58 | 0.36 | 0.75 | 0.74 | 0.44 | 0.75 |
| Control Delay | 66.5 | 56.2 | 64.9 | 36.0 | 25.8 | 43.3 | 10.9 | 30.1 | 52.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 66.5 | 56.2 | 64.9 | 36.0 | 25.8 | 43.3 | 10.9 | 30.1 | 52.6 |
| LOS | E | E | E | D | C | D | B | C | D |
| Approach Delay |  | 59.2 |  | 57.0 |  | 29.0 |  |  | 50.5 |
| Approach LOS |  | E |  | E |  | C |  |  | D |
| Queue Length 50th (m) | 10.3 | 19.7 | 114.5 | 62.9 | 9.7 | 103.8 | 13.0 | 21.2 | 135.6 |
| Queue Length 95th (m) | 21.5 | 36.7 | \#152.2 | 92.8 | 20.1 | \#151.5 | 67.2 | m27.8 | \#164.6 |
| Internal Link Dist (m) |  | 203.2 |  | 249.5 |  | 171.9 |  |  | 387.0 |
| Turn Bay Length (m) | 30.0 |  | 85.0 |  | 75.0 |  |  | 75.0 |  |
| Base Capacity (vph) | 485 | 368 | 956 | 575 | 196 | 1173 | 920 | 227 | 1284 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.27 | 0.93 | 0.58 | 0.36 | 0.75 | 0.74 | 0.44 | 0.75 |
| Intersection Summary |  |  |  |  |  |  |  |  |  |
| Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Offset: 98 (75\%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 120 |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.95 |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 44.1 |  |  |  | Intersection LOS: D |  |  |  |  |  |
| Intersection Capacity Utilization 77.8\% |  |  |  | ICU Level of Service D |  |  |  |  |  |
| Analysis Period (min) 15 |  |  |  |  |  |  |  |  |  |

\# 95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
$m$ Volume for 95 th percentile queue is metered by upstream signal.
Splits and Phases: 7: Merivale Rd \& Lotta Ave \& Clyde Ave



Splits and Phases: 8: Erindale Dr \& Maitland Ave



Splits and Phases: 9: Maitland Ave \& Glenmount Ave


## Future Background 2022


~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
\# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.


|  |  |  | $\leftarrow$ |  |
| :--- | ---: | ---: | ---: | ---: |
|  |  | $\rightarrow$ |  |  |
| Lane Group | EBT | WBT | SBL |  |
| Lane Configurations | $\uparrow$ | $\uparrow \uparrow$ | $\uparrow \uparrow$ |  |
| Traffic Volume (vph) | 29 | 1383 | 694 | 16 |
| Future Volume (vph) | 29 | 1383 | 694 | 16 |
| Lane Group Flow (vph) | 29 | 1383 | 724 | 72 |
| Sign Control |  | Free | Free | Stop |

Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 51.6\% ICU Level of Service A
Analysis Period (min) 15


|  | 4 | $\uparrow$ | $\downarrow$ |
| :---: | :---: | :---: | :---: |
| Lane Group | NBL | NBT | SBT |
| Lane Configurations | \% | 性 | 个t |
| Traffic Volume (vph) | 17 | 1295 | 901 |
| Future Volume (vph) | 17 | 1295 | 901 |
| Lane Group Flow (vph) | 17 | 1295 | 904 |
| Sign Control |  | Free | Free |

Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 41.1\% ICU Level of Service A
Analysis Period (min) 15


|  | 4 | $\dagger$ | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | NBT | SBT |  |
| Lane Configurations | ${ }^{*}$ | 个个 | 性 |  |
| Trafic Volume（vph） | 0 | 1283 | 890 |  |
| Future Volume（vph） | 0 | 1283 | 890 |  |
| Lane Group Flow（vph） | 38 | 1283 | 901 |  |
| Sign Control | Stop | Free | Free |  |
| Intersection Summary |  |  |  |  |
| Control Type：Unsignalized |  |  |  |  |
| Intersection Capacity Utilization 47．4\％ Analysis Period（min） 15 |  |  |  | ICU Level of Service A |
|  |  |  |  |  |




Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 43.3\%
ICU Level of Service A
Analysis Period (min) 15


|  | 4 |  | 7 |  | 4 | 9 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT |
| Lane Configurations | ${ }^{*}$ | $\uparrow$ | ${ }^{4} 1$ | $\uparrow$ | ${ }^{1}$ | 44 | 「 | ${ }^{*}$ | 中 ${ }^{\text {F }}$ |
| Traffic Volume (vph) | 31 | 68 | 392 | 34 | 1 | 871 | 667 | 46 | 717 |
| Future Volume (vph) | 31 | 68 | 392 | 34 | 1 | 871 | 667 | 46 | 717 |
| Lane Group Flow (vph) | 31 | 87 | 392 | 108 | 1 | 871 | 667 | 46 | 724 |
| Turn Type | Prot | NA | Prot | NA | Perm | NA | Perm | Perm | NA |
| Protected Phases | 7 | 4 | 3 | 8 |  | 2 |  |  | 6 |
| Permitted Phases |  |  |  |  | 2 |  | 2 | 6 |  |
| Detector Phase | 7 | 4 | 3 | 8 | 2 | 2 | 2 | 6 | 6 |
| Switch Phase |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) | 5.0 | 10.0 | 5.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 | 10.0 |
| Minimum Split (s) | 11.8 | 33.8 | 11.2 | 33.2 | 30.0 | 30.0 | 30.0 | 30.0 | 30.0 |
| Total Split (s) | 33.0 | 34.0 | 33.0 | 34.0 | 63.0 | 63.0 | 63.0 | 63.0 | 63.0 |
| Total Split (\%) | 25.4\% | 26.2\% | 25.4\% | 26.2\% | 48.5\% | 48.5\% | 48.5\% | 48.5\% | 48.5\% |
| Yellow Time (s) | 3.0 | 3.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| All-Red Time (s) | 3.8 | 3.8 | 2.5 | 2.5 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.8 | 6.8 | 6.2 | 6.2 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lead | Lag |  |  |  |  |  |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes |  |  |  |  |  |
| Recall Mode | None | None | None | None | C-Max | C-Max | C-Max | C-Max | C-Max |
| Act Effct Green (s) | 7.9 | 12.0 | 20.7 | 30.0 | 78.3 | 78.3 | 78.3 | 78.3 | 78.3 |
| Actuated g/C Ratio | 0.06 | 0.09 | 0.16 | 0.23 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 |
| v/c Ratio | 0.30 | 0.52 | 0.75 | 0.25 | 0.00 | 0.43 | 0.57 | 0.16 | 0.36 |
| Control Delay | 65.2 | 60.3 | 61.3 | 17.3 | 13.0 | 15.5 | 3.2 | 15.2 | 14.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 65.2 | 60.3 | 61.3 | 17.3 | 13.0 | 15.5 | 3.2 | 15.2 | 14.5 |
| LOS | E | E | E | B | B | B | A | B | B |
| Approach Delay |  | 61.6 |  | 51.8 |  | 10.1 |  |  | 14.5 |
| Approach LOS |  | E |  | D |  | B |  |  | B |
| Queue Length 50th (m) | 7.8 | 19.2 | 50.0 | 7.3 | 0.1 | 58.4 | 0.0 | 4.8 | 45.9 |
| Queue Length 95th (m) | 17.7 | 35.1 | 64.0 | 21.9 | 1.1 | 87.8 | 17.1 | 13.7 | 70.1 |
| Internal Link Dist (m) |  | 203.2 |  | 249.5 |  | 171.9 |  |  | 387.0 |
| Turn Bay Length (m) | 30.0 |  | 85.0 |  | 75.0 |  |  | 75.0 |  |
| Base Capacity (vph) | 341 | 368 | 677 | 436 | 357 | 2041 | 1179 | 291 | 2039 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.09 | 0.24 | 0.58 | 0.25 | 0.00 | 0.43 | 0.57 | 0.16 | 0.36 |
| Intersection Summary |  |  |  |  |  |  |  |  |  |
| Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Offset: 9 (7\%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 80 |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.75 |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 20.5 |  |  |  | Intersection LOS: C |  |  |  |  |  |
| Intersection Capacity Utilization 75.9\% |  |  |  | ICU Level of Service D |  |  |  |  |  |
| Analysis Period (min) 15 |  |  |  |  |  |  |  |  |  |

Splits and Phases: 7: Merivale Rd \& Lotta Ave \& Clyde Ave


|  | $\rightarrow$ |  |  | $4$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBT | WBL | WBT | NBL | $\varnothing 9$ |
| Lane Configurations | 中 ${ }^{\text {a }}$ |  | ¢4 | * |  |
| Traffic Volume (vph) | 721 | 8 | 1083 | 250 |  |
| Future Volume (vph) | 721 | 8 | 1083 | 250 |  |
| Lane Group Flow (vph) | 779 | 0 | 1091 | 295 |  |
| Turn Type | NA | Perm | NA | Perm |  |
| Protected Phases | 4 |  | 8 |  | 9 |
| Permitted Phases |  | 8 |  | 2 |  |
| Detector Phase | 4 | 8 | 8 | 2 |  |
| Switch Phase |  |  |  |  |  |
| Minimum Initial (s) | 10.0 | 10.0 | 10.0 | 10.0 | 3.0 |
| Minimum Split (s) | 29.1 | 24.5 | 24.5 | 30.4 | 5.0 |
| Total Split (s) | 59.0 | 59.0 | 59.0 | 31.0 | 5.0 |
| Total Split (\%) | 62.1\% | 62.1\% | 62.1\% | 32.6\% | 5\% |
| Yellow Time (s) | 3.3 | 3.3 | 3.3 | 3.3 | 2.0 |
| All-Red Time (s) | 1.8 | 8.4 | 8.4 | 2.1 | 0.0 |
| Lost Time Adjust (s) | 0.0 |  | 0.0 | 0.0 |  |
| Total Lost Time (s) | 5.1 |  | 11.7 | 5.4 |  |
| Lead/Lag |  |  |  |  |  |
| Lead-Lag Optimize? |  |  |  |  |  |
| Recall Mode | C-Max | C-Max | C-Max | None | None |
| Act Effct Green (s) | 63.2 |  | 56.6 | 21.3 |  |
| Actuated g/C Ratio | 0.67 |  | 0.60 | 0.22 |  |
| v/c Ratio | 0.35 |  | 0.57 | 0.77 |  |
| Control Delay | 8.0 |  | 11.5 | 46.8 |  |
| Queue Delay | 0.0 |  | 0.3 | 65.3 |  |
| Total Delay | 8.0 |  | 11.8 | 112.2 |  |
| LOS | A |  | B | F |  |
| Approach Delay | 8.0 |  | 11.8 | 112.2 |  |
| Approach LOS | A |  | B | F |  |
| Queue Length 50th (m) | 28.5 |  | 62.5 | 49.4 |  |
| Queue Length 95th (m) | 48.1 |  | 97.2 | 70.5 |  |
| Internal Link Dist (m) | 140.4 |  | 13.1 | 185.7 |  |
| Turn Bay Length (m) |  |  |  |  |  |
| Base Capacity (vph) | 2235 |  | 1913 | 467 |  |
| Starvation Cap Reductn | 0 |  | 310 | 0 |  |
| Spillback Cap Reductn | 22 |  | 0 | 289 |  |
| Storage Cap Reductn | 0 |  | 0 | 0 |  |
| Reduced v/c Ratio | 0.35 |  | 0.68 | 1.66 |  |
| Intersection Summary |  |  |  |  |  |
| Cycle Length: 95 |  |  |  |  |  |
| Actuated Cycle Length: 9 |  |  |  |  |  |
| Offset: 49 (52\%), Referen | to phase | 4:EBT | nd 8:WB | L, Start | Green |
| Natural Cycle: 75 |  |  |  |  |  |
| Control Type: Actuated-C | dinated |  |  |  |  |
| Maximum v/c Ratio: 0.77 |  |  |  |  |  |
| Intersection Signal Delay |  |  |  |  | sectio |
| Intersection Capacity Utiliz | on 69.3\% |  |  |  | Level |
| Analysis Period (min) 15 |  |  |  |  |  |

Splits and Phases: 8: Erindale Dr \& Maitland Ave



Splits and Phases: 9: Maitland Ave \& Glenmount Ave


|  | 4 | $\rightarrow$ |  | 7 |  | 4 | 4 |  |  | $\dagger$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | SBL | SBT |
| Lane Configurations | ${ }^{7}$ | 中4 | F | ${ }^{1}$ | 44 | 「 | ${ }^{17}$ | 中 ${ }^{\text {a }}$ | ${ }^{7} 1$ | 中 $\hat{F}$ |
| Traffic Volume（vph） | 156 | 872 | 220 | 140 | 1144 | 529 | 311 | 791 | 402 | 614 |
| Future Volume（vph） | 156 | 872 | 220 | 140 | 1144 | 529 | 311 | 791 | 402 | 614 |
| Lane Group Flow（vph） | 156 | 872 | 220 | 140 | 1144 | 529 | 311 | 891 | 402 | 693 |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Prot | NA | Prot | NA |
| Protected Phases | 7 | 4 |  | 3 | 8 |  | 5 | 2 | 1 | 6 |
| Permitted Phases |  |  | 4 |  |  | 8 |  |  |  |  |
| Detector Phase | 7 | 4 | 4 | 3 | 8 | 8 | 5 | 2 | 1 | 6 |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial（s） | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 | 5.0 | 10.0 |
| Minimum Split（s） | 11.5 | 34.4 | 34.4 | 11.5 | 34.4 | 34.4 | 11.6 | 39.9 | 11.6 | 39.9 |
| Total Split（s） | 18.0 | 51.0 | 51.0 | 18.0 | 51.0 | 51.0 | 21.0 | 40.0 | 21.0 | 40.0 |
| Total Split（\％） | 13．8\％ | 39．2\％ | 39．2\％ | 13．8\％ | 39．2\％ | 39．2\％ | 16．2\％ | 30．8\％ | 16．2\％ | 30．8\％ |
| Yellow Time（s） | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.3 | 3.3 | 3.3 | 3.3 |
| All－Red Time（s） | 2.8 | 2.7 | 2.7 | 2.8 | 2.7 | 2.7 | 3.3 | 3.6 | 3.3 | 3.6 |
| Lost Time Adjust（s） | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time（s） | 6.5 | 6.4 | 6.4 | 6.5 | 6.4 | 6.4 | 6.6 | 6.9 | 6.6 | 6.9 |
| Lead／Lag | Lead | Lag | Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag |
| Lead－Lag Optimize？ | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Recall Mode | None | C－Max | C－Max | None | C－Max | C－Max | None | None | None | None |
| Act Effct Green（s） | 11.5 | 44.6 | 44.6 | 11.5 | 44.6 | 44.6 | 14.3 | 33.1 | 14.4 | 33.2 |
| Actuated g／C Ratio | 0.09 | 0.34 | 0.34 | 0.09 | 0.34 | 0.34 | 0.11 | 0.25 | 0.11 | 0.26 |
| v／c Ratio | 1.05 | 0.75 | 0.36 | 0.94 | 0.98 | 0.79 | 0.86 | 1.04 | 1.10 | 0.81 |
| Control Delay | 143.0 | 42.6 | 13.1 | 117.9 | 65.2 | 30.5 | 96.0 | 70.8 | 130.7 | 53.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 143.0 | 42.6 | 13.1 | 117.9 | 65.2 | 30.5 | 96.0 | 70.8 | 130.7 | 53.1 |
| LOS | F | D | B | F | E | C | F | E | F | D |
| Approach Delay |  | 50.0 |  |  | 59.1 |  |  | 77.3 |  | 81.6 |
| Approach LOS |  | D |  |  | E |  |  | E |  | F |
| Queue Length 50th（m） | $\sim 43.1$ | 103.5 | 13.6 | 36.3 | 152.3 | 71.9 | 40.1 | ～129．6 | ～60．3 | 87.0 |
| Queue Length 95th（m） | \＃86．8 | 127.8 | 33.7 | \＃76．1 | \＃199．3 | 119.8 | \＃66．6 | \＃163．6 | \＃92．1 | 109.9 |
| Internal Link Dist（m） |  | 24.7 |  |  | 271.0 |  |  | 387.0 |  | 105.7 |
| Turn Bay Length（m） | 100.0 |  | 15.0 | 75.0 |  | 40.0 | 60.0 |  | 105.0 |  |
| Base Capacity（vph） | 149 | 1163 | 614 | 149 | 1163 | 672 | 364 | 856 | 364 | 859 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v／c Ratio | 1.05 | 0.75 | 0.36 | 0.94 | 0.98 | 0.79 | 0.85 | 1.04 | 1.10 | 0.81 |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |
| Cycle Length： 130 |  |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length： 130 |  |  |  |  |  |  |  |  |  |  |
| Offset： 53 （41\％），Referenced to phase 4：EBT and 8：WBT，Start of Green |  |  |  |  |  |  |  |  |  |  |
| Natural Cycle： 130 |  |  |  |  |  |  |  |  |  |  |
| Control Type：Actuated－Coordinated |  |  |  |  |  |  |  |  |  |  |
| Maximum v／c Ratio： 1.10 |  |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay： 65.7 |  |  |  | Intersection LOS：E |  |  |  |  |  |  |
| Intersection Capacity Utilization 103．1\％ |  |  |  | ICU Level of Service G |  |  |  |  |  |  |
| Analysis Period（min） 15 |  |  |  |  |  |  |  |  |  |  |

~ Volume exceeds capacity, queue is theoretically infinite. Queue shown is maximum after two cycles.
\# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

Splits and Phases: 1: Clyde Ave \& Baseline Rd



Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 57.0\%
ICU Level of Service B
Analysis Period (min) 15


|  | 4 |  | 1 |
| :---: | :---: | :---: | :---: |
| Lane Group | NBL | NBT | SBT |
| Lane Configurations | ${ }^{1}$ | 44 | 中 ${ }^{\text {a }}$ |
| Traffic Volume (vph) | 53 | 1445 | 954 |
| Future Volume (vph) | 53 | 1445 | 954 |
| Lane Group Flow (vph) | 53 | 1445 | 972 |
| Sign Control |  | Free | Free |


| Intersection Summary |  |
| :--- | :--- |
| Control Type: Unsignalized | ICU Level of Service A |
| Intersection Capacity Utilization 45.5\% |  |
| Analysis Period (min) 15 |  |



|  | 4 | $\dagger$ | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | NBT | SBT |  |
| Lane Configurations | ${ }^{*}$ | 个个 | 性 |  |
| Trafic Volume（vph） | 0 | 1476 | 943 |  |
| Future Volume（vph） | 0 | 1476 | 943 |  |
| Lane Group Flow（vph） | 73 | 1476 | 954 |  |
| Sign Control | Stop | Free | Free |  |
| Intersection Summary |  |  |  |  |
| Control Type：Unsignalized |  |  |  |  |
| Intersection Capacity Utilization 54．5\％ Analysis Period（min） 15 |  |  |  | ICU Level of Service A |
|  |  |  |  |  |




Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 54.8\% ICU Level of Service A
Analysis Period (min) 15


|  | 4 |  | 4 |  | 4 | $\dagger$ |  | ( |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT |
| Lane Configurations | ${ }^{1}$ | F | ${ }^{4} 1$ | $\uparrow$ | ${ }^{1}$ | 44 | 「 | ${ }^{*}$ | 4 ${ }^{\text {a }}$ |
| Traffic Volume (vph) | 37 | 57 | 808 | 130 | 64 | 817 | 611 | 90 | 865 |
| Future Volume (vph) | 37 | 57 | 808 | 130 | 64 | 817 | 611 | 90 | 865 |
| Lane Group Flow (vph) | 37 | 89 | 808 | 319 | 64 | 817 | 611 | 90 | 885 |
| Turn Type | Prot | NA | Prot | NA | pm+pt | NA | Perm | pm+pt | NA |
| Protected Phases | 7 | 4 | 3 | 8 | 5 | 2 |  | 1 | 6 |
| Permitted Phases |  |  |  |  | 2 |  | 2 | 6 |  |
| Detector Phase | 7 | 4 | 3 | 8 | 5 | 2 | 2 | 1 | 6 |
| Switch Phase |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) | 5.0 | 10.0 | 5.0 | 10.0 | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 |
| Minimum Split (s) | 11.8 | 33.8 | 11.2 | 33.2 | 11.0 | 30.0 | 30.0 | 11.0 | 30.0 |
| Total Split (s) | 44.0 | 34.0 | 44.0 | 34.0 | 12.0 | 40.0 | 40.0 | 12.0 | 40.0 |
| Total Split (\%) | 33.8\% | 26.2\% | 33.8\% | 26.2\% | 9.2\% | 30.8\% | 30.8\% | 9.2\% | 30.8\% |
| Yellow Time (s) | 3.0 | 3.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| All-Red Time (s) | 3.8 | 3.8 | 2.5 | 2.5 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.8 | 6.8 | 6.2 | 6.2 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Recall Mode | None | None | None | None | None | C-Max | C-Max | None | C-Max |
| Act Effct Green (s) | 8.3 | 11.8 | 35.6 | 44.3 | 56.1 | 47.9 | 47.9 | 60.1 | 51.7 |
| Actuated g/C Ratio | 0.06 | 0.09 | 0.27 | 0.34 | 0.43 | 0.37 | 0.37 | 0.46 | 0.40 |
| v/c Ratio | 0.34 | 0.52 | 0.90 | 0.54 | 0.29 | 0.65 | 0.66 | 0.36 | 0.66 |
| Control Delay | 66.0 | 54.1 | 59.0 | 33.5 | 22.9 | 38.6 | 7.4 | 28.3 | 49.5 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 66.0 | 54.1 | 59.0 | 33.5 | 22.9 | 38.6 | 7.4 | 28.3 | 49.5 |
| LOS | E | D | E | C | C | D | A | C | D |
| Approach Delay |  | 57.6 |  | 51.8 |  | 25.2 |  |  | 47.6 |
| Approach LOS |  | E |  | D |  | C |  |  | D |
| Queue Length 50th (m) | 9.3 | 17.2 | 100.5 | 58.1 | 8.6 | 92.3 | 4.1 | 18.6 | 123.1 |
| Queue Length 95th (m) | 20.2 | 33.4 | 125.2 | 87.3 | 18.1 | 126.5 | 40.8 | m27.1 | m145.5 |
| Internal Link Dist (m) |  | 203.2 |  | 249.5 |  | 171.9 |  |  | 387.0 |
| Turn Bay Length (m) | 30.0 |  | 85.0 |  | 75.0 |  |  | 75.0 |  |
| Base Capacity (vph) | 485 | 368 | 956 | 587 | 225 | 1248 | 928 | 249 | 1346 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.24 | 0.85 | 0.54 | 0.28 | 0.65 | 0.66 | 0.36 | 0.66 |
| Intersection Summary |  |  |  |  |  |  |  |  |  |
| Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Offset: 98 (75\%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 110 |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.90 |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 40.2 |  |  |  | Intersection LOS: D |  |  |  |  |  |
| Intersection Capacity Utilization 78.2\% |  |  |  | ICU Level of Service D |  |  |  |  |  |
| Analysis Period (min) 15 |  |  |  |  |  |  |  |  |  |

$m$ Volume for 95 th percentile queue is metered by upstream signal.


| Lane Group | EBT | WBL | WBT | NBL | $\varnothing 9$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | 中 ${ }^{\text {a }}$ |  | ¢4 | Mr |  |
| Traffic Volume (vph) | 930 | 20 | 1179 | 60 |  |
| Future Volume (vph) | 930 | 20 | 1179 | 60 |  |
| Lane Group Flow (vph) | 1034 | 0 | 1199 | 77 |  |
| Turn Type | NA | Perm | NA | Perm |  |
| Protected Phases | 4 |  | 8 |  | 9 |
| Permitted Phases |  | 8 |  | 2 |  |
| Detector Phase | 4 | 8 | 8 | 2 |  |
| Switch Phase |  |  |  |  |  |
| Minimum Initial (s) | 10.0 | 10.0 | 10.0 | 10.0 | 3.0 |
| Minimum Split (s) | 29.1 | 24.5 | 24.5 | 30.4 | 5.0 |
| Total Split (s) | 59.0 | 59.0 | 59.0 | 31.0 | 5.0 |
| Total Split (\%) | 62.1\% | 62.1\% | 62.1\% | 32.6\% | 5\% |
| Yellow Time (s) | 3.3 | 3.3 | 3.3 | 3.3 | 2.0 |
| All-Red Time (s) | 1.8 | 8.4 | 8.4 | 2.1 | 0.0 |
| Lost Time Adjust (s) | 0.0 |  | 0.0 | 0.0 |  |
| Total Lost Time (s) | 5.1 |  | 11.7 | 5.4 |  |
| Lead/Lag |  |  |  |  |  |
| Lead-Lag Optimize? |  |  |  |  |  |
| Recall Mode | C-Max | C-Max | C-Max | None | None |
| Act Effct Green (s) | 77.9 |  | 72.7 | 10.7 |  |
| Actuated g/C Ratio | 0.82 |  | 0.77 | 0.11 |  |
| v/c Ratio | 0.38 |  | 0.50 | 0.39 |  |
| Control Delay | 3.4 |  | 4.1 | 37.8 |  |
| Queue Delay | 0.0 |  | 0.0 | 2.1 |  |
| Total Delay | 3.5 |  | 4.2 | 39.9 |  |
| LOS | A |  | A | D |  |
| Approach Delay | 3.5 |  | 4.2 | 39.9 |  |
| Approach LOS | A |  | A | D |  |
| Queue Length 50th (m) | 23.5 |  | 14.9 | 10.8 |  |
| Queue Length 95th (m) | 36.3 |  | 18.5 | 23.5 |  |
| Internal Link Dist (m) | 140.4 |  | 13.1 | 185.7 |  |
| Turn Bay Length (m) |  |  |  |  |  |
| Base Capacity (vph) | 2743 |  | 2385 | 460 |  |
| Starvation Cap Reductn | 0 |  | 121 | 0 |  |
| Spillback Cap Reductn | 105 |  | 0 | 284 |  |
| Storage Cap Reductn | 0 |  | 0 | 0 |  |
| Reduced v/c Ratio | 0.39 |  | 0.53 | 0.44 |  |
| Intersection Summary |  |  |  |  |  |
| Cycle Length: 95 |  |  |  |  |  |
| Actuated Cycle Length: 95 |  |  |  |  |  |
| Offset: 33 (35\%), Refere | to phase | 4:EBT | nd 8:WB | L, Start | Green |
| Natural Cycle: 80 |  |  |  |  |  |
| Control Type: Actuated-Coo | dinated |  |  |  |  |
| Maximum v/c Ratio: 0.50 |  |  |  |  |  |
| Intersection Signal Delay |  |  |  |  | sectio |
| Intersection Capacity Utiliza | on 72.0\% |  |  |  | Level |
| Analysis Period (min) 15 |  |  |  |  |  |

Splits and Phases: 8: Erindale Dr \& Maitland Ave



Splits and Phases: 9: Maitland Ave \& Glenmount Ave


Future Background 2026

|  | 4 |  | 7 | 7 |  | 4 | 4 |  | ， | $\downarrow$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | SBL | SBT |
| Lane Configurations | ${ }^{*}$ | 中4 | 7 | ${ }^{1}$ | 中4 | 「 | ${ }^{7 *}$ | 中 ${ }^{\text {a }}$ | 7\％ | 中 ${ }^{\text {a }}$ |
| Traffic Volume（vph） | 173 | 1070 | 128 | 81 | 476 | 372 | 87 | 737 | 353 | 515 |
| Future Volume（vph） | 173 | 1070 | 128 | 81 | 476 | 372 | 87 | 737 | 353 | 515 |
| Lane Group Flow（vph） | 173 | 1070 | 128 | 81 | 476 | 372 | 87 | 841 | 353 | 570 |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Prot | NA | Prot | NA |
| Protected Phases | 7 | 4 |  | 3 | 8 |  | 5 | 2 | 1 | 6 |
| Permitted Phases |  |  | 4 |  |  | 8 |  |  |  |  |
| Detector Phase | 7 | 4 | 4 | 3 | 8 | 8 | 5 | 2 | 1 | 6 |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial（s） | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 | 5.0 | 10.0 |
| Minimum Split（s） | 11.5 | 34.4 | 34.4 | 11.5 | 34.4 | 34.4 | 11.6 | 39.9 | 11.6 | 39.9 |
| Total Split（s） | 18.0 | 41.0 | 41.0 | 18.0 | 41.0 | 41.0 | 21.0 | 40.0 | 21.0 | 40.0 |
| Total Split（\％） | 15．0\％ | 34．2\％ | 34．2\％ | 15．0\％ | 34．2\％ | 34．2\％ | 17．5\％ | 33．3\％ | 17．5\％ | 33．3\％ |
| Yellow Time（s） | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.3 | 3.3 | 3.3 | 3.3 |
| All－Red Time（s） | 2.8 | 2.7 | 2.7 | 2.8 | 2.7 | 2.7 | 3.3 | 3.6 | 3.3 | 3.6 |
| Lost Time Adjust（s） | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time（s） | 6.5 | 6.4 | 6.4 | 6.5 | 6.4 | 6.4 | 6.6 | 6.9 | 6.6 | 6.9 |
| Lead／Lag | Lead | Lag | Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag |
| Lead－Lag Optimize？ | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Recall Mode | None | C－Max | C－Max | None | C－Max | C－Max | None | None | None | None |
| Act Effct Green（s） | 12.1 | 39.4 | 39.4 | 10.0 | 34.6 | 34.6 | 8.6 | 32.5 | 14.4 | 38.3 |
| Actuated g／C Ratio | 0.10 | 0.33 | 0.33 | 0.08 | 0.29 | 0.29 | 0.07 | 0.27 | 0.12 | 0.32 |
| v／c Ratio | 1.01 | 0.96 | 0.21 | 0.58 | 0.49 | 0.57 | 0.37 | 0.93 | 0.90 | 0.53 |
| Control Delay | 125.9 | 60.2 | 3.7 | 69.0 | 37.4 | 11.4 | 57.2 | 58.7 | 77.9 | 35.3 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 125.9 | 60.2 | 3.7 | 69.0 | 37.4 | 11.4 | 57.2 | 58.7 | 77.9 | 35.3 |
| LOS | F | E | A | E | D | B | E | E | E | D |
| Approach Delay |  | 63.2 |  |  | 29.7 |  |  | 58.5 |  | 51.6 |
| Approach LOS |  | E |  |  | C |  |  | E |  | D |
| Queue Length 50th（m） | $\sim 45.0$ | ～148．1 | 0.0 | 18.5 | 48.8 | 12.3 | 10.2 | 99.5 | 42.8 | 56.4 |
| Queue Length 95th（m） | \＃89．1 | \＃190．8 | 9.0 | 34.6 | 65.1 | 41.3 | 18.1 | \＃135．3 | \＃68．8 | 76.0 |
| Internal Link Dist（m） |  | 24.7 |  |  | 271.0 |  |  | 387.0 |  | 105.7 |
| Turn Bay Length（m） | 100.0 |  | 15.0 | 75.0 |  | 40.0 | 60.0 |  | 105.0 |  |
| Base Capacity（vph） | 171 | 1113 | 602 | 162 | 977 | 652 | 394 | 926 | 394 | 1072 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v／c Ratio | 1.01 | 0.96 | 0.21 | 0.50 | 0.49 | 0.57 | 0.22 | 0.91 | 0.90 | 0.53 |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |
| Cycle Length： 120 |  |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length： 120 |  |  |  |  |  |  |  |  |  |  |
| Offset： 19 （16\％），Referenced to phase 4：EBT and 8：WBT，Start of Green |  |  |  |  |  |  |  |  |  |  |
| Natural Cycle： 110 |  |  |  |  |  |  |  |  |  |  |
| Control Type：Actuated－Coordinated |  |  |  |  |  |  |  |  |  |  |
| Maximum v／c Ratio： 1.01 |  |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay： 52.1 |  |  |  | Intersection LOS：D |  |  |  |  |  |  |
| Intersection Capacity Utilization 93．6\％ |  |  |  | ICU Level of Service F |  |  |  |  |  |  |
| Analysis Period（min） 15 |  |  |  |  |  |  |  |  |  |  |

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
\# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.


|  |  |  | $\leftarrow$ |  |
| :--- | ---: | ---: | ---: | ---: |
|  |  | $\rightarrow$ |  |  |
| Lane Group | EBT | WBT | SBL |  |
| Lane Configurations | $\uparrow$ | $\uparrow \uparrow$ | $\uparrow \uparrow$ |  |
| Traffic Volume (vph) | 29 | 1382 | 693 | 16 |
| Future Volume (vph) | 29 | 1382 | 693 | 16 |
| Lane Group Flow (vph) | 29 | 1382 | 723 | 72 |
| Sign Control |  | Free | Free | Stop |

Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 51.6\% ICU Level of Service A
Analysis Period (min) 15


|  | 4 | 4 | $\downarrow$ |
| :---: | :---: | :---: | :---: |
| Lane Group | NBL | NBT | SBT |
| Lane Configurations | \% | 个4 | 个 ${ }_{\text {d }}$ |
| Traffic Volume (vph) | 17 | 1282 | 896 |
| Future Volume (vph) | 17 | 1282 | 896 |
| Lane Group Flow (vph) | 17 | 1282 | 899 |
| Sign Control |  | Free | Free |

Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 40.7\% ICU Level of Service A
Analysis Period (min) 15


|  | $\rangle$ | 4 | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | NBT | SBT |  |
| Lane Configurations | \% | 个 4 | 蚛 |  |
| Traffic Volume (vph) | 0 | 1282 | 885 |  |
| Future Volume (vph) | 0 | 1282 | 885 |  |
| Lane Group Flow (vph) | 38 | 1282 | 896 |  |
| Sign Control | Stop | Free | Free |  |
| $\frac{\text { Intersection Summary }}{\text { Control Type: Unsignalized }}$ |  |  |  |  |
|  |  |  |  |  |
| Intersection Capacity Utilization 47.4\% |  |  |  | ICU Level of Service A |
| Analysis Period (min) 15 |  |  |  |  |




Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 43.3\%
ICU Level of Service A
Analysis Period (min) 15


|  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

Splits and Phases: 7: Merivale Rd \& Lotta Ave \& Clyde Ave


| Lane Group | EBT | WBL | WBT | NBL | $\emptyset 9$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | 中 ${ }^{\text {F }}$ |  | ¢4 | M |  |
| Traffic Volume (vph) | 716 | 8 | 1070 | 250 |  |
| Future Volume (vph) | 716 | 8 | 1070 | 250 |  |
| Lane Group Flow (vph) | 774 | 0 | 1078 | 295 |  |
| Turn Type | NA | Perm | NA | Perm |  |
| Protected Phases | 4 |  | 8 |  | 9 |
| Permitted Phases |  | 8 |  | 2 |  |
| Detector Phase | 4 | 8 | 8 | 2 |  |
| Switch Phase |  |  |  |  |  |
| Minimum Initial (s) | 10.0 | 10.0 | 10.0 | 10.0 | 3.0 |
| Minimum Split (s) | 29.1 | 24.5 | 24.5 | 30.4 | 5.0 |
| Total Split (s) | 59.0 | 59.0 | 59.0 | 31.0 | 5.0 |
| Total Split (\%) | 62.1\% | 62.1\% | 62.1\% | 32.6\% | 5\% |
| Yellow Time (s) | 3.3 | 3.3 | 3.3 | 3.3 | 2.0 |
| All-Red Time (s) | 1.8 | 8.4 | 8.4 | 2.1 | 0.0 |
| Lost Time Adjust (s) | 0.0 |  | 0.0 | 0.0 |  |
| Total Lost Time (s) | 5.1 |  | 11.7 | 5.4 |  |
| Lead/Lag |  |  |  |  |  |
| Lead-Lag Optimize? |  |  |  |  |  |
| Recall Mode | C-Max | C-Max | C-Max | None | None |
| Act Effct Green (s) | 63.2 |  | 56.6 | 21.3 |  |
| Actuated g/C Ratio | 0.67 |  | 0.60 | 0.22 |  |
| v/c Ratio | 0.35 |  | 0.56 | 0.77 |  |
| Control Delay | 8.0 |  | 11.4 | 46.8 |  |
| Queue Delay | 0.0 |  | 0.4 | 65.1 |  |
| Total Delay | 8.0 |  | 11.8 | 111.9 |  |
| LOS | A |  | B | F |  |
| Approach Delay | 8.0 |  | 11.8 | 111.9 |  |
| Approach LOS | A |  | B | F |  |
| Queue Length 50th (m) | 28.2 |  | 61.2 | 49.4 |  |
| Queue Length 95th (m) | 47.6 |  | 95.5 | 70.5 |  |
| Internal Link Dist (m) | 140.4 |  | 13.1 | 185.7 |  |
| Turn Bay Length (m) |  |  |  |  |  |
| Base Capacity (vph) | 2236 |  | 1913 | 467 |  |
| Starvation Cap Reductn | 0 |  | 329 | 0 |  |
| Spillback Cap Reductn | 22 |  | 0 | 286 |  |
| Storage Cap Reductn | 0 |  | 0 | 0 |  |
| Reduced v/c Ratio | 0.35 |  | 0.68 | 1.63 |  |
| Intersection Summary |  |  |  |  |  |
| Cycle Length: 95 |  |  |  |  |  |
| Actuated Cycle Length: 95 |  |  |  |  |  |
| Offset: 49 (52\%), Refere | to phase | 4:EBT | nd 8:WB | L, Start | Green |
| Natural Cycle: 75 |  |  |  |  |  |
| Control Type: Actuated-Coo | dinated |  |  |  |  |
| Maximum v/c Ratio: 0.77 |  |  |  |  |  |
| Intersection Signal Delay |  |  |  |  | sectio |
| Intersection Capacity Utiliza | on 68.9\% |  |  |  | Level |
| Analysis Period (min) 15 |  |  |  |  |  |

Splits and Phases: 8: Erindale Dr \& Maitland Ave



Splits and Phases: 9: Maitland Ave \& Glenmount Ave


|  | 4 | $\rightarrow$ |  | 7 |  | 4 | 4 |  |  | $\dagger$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | EBR | WBL | WBT | WBR | NBL | NBT | SBL | SBT |
| Lane Configurations | ${ }^{7}$ | 中4 | F | ${ }^{1}$ | 44 | 「 | ${ }^{17}$ | 中 ${ }^{\text {a }}$ | ${ }^{7} 1$ | 中 $\hat{F}$ |
| Traffic Volume（vph） | 156 | 870 | 220 | 134 | 1143 | 529 | 311 | 791 | 389 | 614 |
| Future Volume（vph） | 156 | 870 | 220 | 134 | 1143 | 529 | 311 | 791 | 389 | 614 |
| Lane Group Flow（vph） | 156 | 870 | 220 | 134 | 1143 | 529 | 311 | 882 | 389 | 693 |
| Turn Type | Prot | NA | Perm | Prot | NA | Perm | Prot | NA | Prot | NA |
| Protected Phases | 7 | 4 |  | 3 | 8 |  | 5 | 2 | 1 | 6 |
| Permitted Phases |  |  | 4 |  |  | 8 |  |  |  |  |
| Detector Phase | 7 | 4 | 4 | 3 | 8 | 8 | 5 | 2 | 1 | 6 |
| Switch Phase |  |  |  |  |  |  |  |  |  |  |
| Minimum Initial（s） | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 | 5.0 | 10.0 |
| Minimum Split（s） | 11.5 | 34.4 | 34.4 | 11.5 | 34.4 | 34.4 | 11.6 | 39.9 | 11.6 | 39.9 |
| Total Split（s） | 18.0 | 51.0 | 51.0 | 18.0 | 51.0 | 51.0 | 21.0 | 40.0 | 21.0 | 40.0 |
| Total Split（\％） | 13．8\％ | 39．2\％ | 39．2\％ | 13．8\％ | 39．2\％ | 39．2\％ | 16．2\％ | 30．8\％ | 16．2\％ | 30．8\％ |
| Yellow Time（s） | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.3 | 3.3 | 3.3 | 3.3 |
| All－Red Time（s） | 2.8 | 2.7 | 2.7 | 2.8 | 2.7 | 2.7 | 3.3 | 3.6 | 3.3 | 3.6 |
| Lost Time Adjust（s） | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time（s） | 6.5 | 6.4 | 6.4 | 6.5 | 6.4 | 6.4 | 6.6 | 6.9 | 6.6 | 6.9 |
| Lead／Lag | Lead | Lag | Lag | Lead | Lag | Lag | Lead | Lag | Lead | Lag |
| Lead－Lag Optimize？ | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Recall Mode | None | C－Max | C－Max | None | C－Max | C－Max | None | None | None | None |
| Act Effct Green（s） | 11.5 | 44.6 | 44.6 | 11.5 | 44.6 | 44.6 | 14.3 | 33.1 | 14.4 | 33.2 |
| Actuated g／C Ratio | 0.09 | 0.34 | 0.34 | 0.09 | 0.34 | 0.34 | 0.11 | 0.25 | 0.11 | 0.26 |
| v／c Ratio | 1.05 | 0.75 | 0.36 | 0.90 | 0.98 | 0.79 | 0.86 | 1.03 | 1.07 | 0.81 |
| Control Delay | 143.0 | 42.6 | 13.1 | 109.5 | 65.0 | 30.5 | 95.9 | 67.9 | 120.6 | 53.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 143.0 | 42.6 | 13.1 | 109.5 | 65.0 | 30.5 | 95.9 | 67.9 | 120.6 | 53.1 |
| LOS | F | D | B | F | E | C | F | E | F | D |
| Approach Delay |  | 49.9 |  |  | 58.2 |  |  | 75.2 |  | 77.4 |
| Approach LOS |  | D |  |  | E |  |  | E |  | E |
| Queue Length 50th（m） | $\sim 43.1$ | 103.2 | 13.6 | 34.6 | 152.2 | 71.9 | 40.0 | ～127．0 | ～56．7 | 87.0 |
| Queue Length 95th（m） | \＃86．8 | 127.4 | 33.7 | \＃72．4 | \＃199．0 | 119.8 | \＃66．7 | \＃160．7 | \＃88．2 | 109.9 |
| Internal Link Dist（m） |  | 24.7 |  |  | 271.0 |  |  | 387.0 |  | 105.7 |
| Turn Bay Length（m） | 100.0 |  | 15.0 | 75.0 |  | 40.0 | 60.0 |  | 105.0 |  |
| Base Capacity（vph） | 149 | 1163 | 614 | 149 | 1163 | 672 | 364 | 856 | 364 | 859 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v／c Ratio | 1.05 | 0.75 | 0.36 | 0.90 | 0.98 | 0.79 | 0.85 | 1.03 | 1.07 | 0.81 |
| Intersection Summary |  |  |  |  |  |  |  |  |  |  |
| Cycle Length： 130 |  |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length： 130 |  |  |  |  |  |  |  |  |  |  |
| Offset： 53 （41\％），Referenced to phase 4：EBT and 8：WBT，Start of Green |  |  |  |  |  |  |  |  |  |  |
| Natural Cycle： 130 |  |  |  |  |  |  |  |  |  |  |
| Control Type：Actuated－Coordinated |  |  |  |  |  |  |  |  |  |  |
| Maximum v／c Ratio： 1.07 |  |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay： 64.0 |  |  |  | Intersection LOS：E |  |  |  |  |  |  |
| Intersection Capacity Utilization 102．3\％ |  |  |  | ICU Level of Service G |  |  |  |  |  |  |
| Analysis Period（min） 15 |  |  |  |  |  |  |  |  |  |  |

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
\# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

Splits and Phases: 1: Clyde Ave \& Baseline Rd



Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 57.0\%
ICU Level of Service B
Analysis Period (min) 15


|  | 4 | 4 | $\downarrow$ |
| :---: | :---: | :---: | :---: |
| Lane Group | NBL | NBT | SBT |
| Lane Configurations | ${ }^{7}$ | 个4 | 个t |
| Traffic Volume (vph) | 53 | 1435 | 941 |
| Future Volume (vph) | 53 | 1435 | 941 |
| Lane Group Flow (vph) | 53 | 1435 | 959 |
| Sign Control |  | Free | Free |

Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 45.2\%
ICU Level of Service A
Analysis Period (min) 15


|  | 4 | 4 | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | NBT | SBT |  |
| Lane Configurations | \％ | 个个 | 蚛 |  |
| Trafic Volume（vph） | 0 | 1476 | 930 |  |
| Future Volume（vph） | 0 | 1476 | 930 |  |
| Lane Group Flow（vph） | 73 | 1476 | 941 |  |
| Sign Control | Stop | Free | Free |  |
| Intersection Summary |  |  |  |  |
| Control Type：Unsignalized |  |  |  |  |
| Intersection Capacity Utilization 54．5\％ Analysis Period（min） 15 |  |  |  | ICU Level of Service A |
|  |  |  |  |  |




Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 54.8\% ICU Level of Service A
Analysis Period (min) 15


|  | 4 |  | 6 |  | 4 | $\dagger$ |  | ( |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT |
| Lane Configurations | ${ }^{7}$ | F | ${ }^{4} 1$ | $\uparrow$ | ${ }^{1}$ | 44 | 「 | ${ }^{*}$ | 4 ${ }^{\text {a }}$ |
| Traffic Volume (vph) | 37 | 57 | 808 | 130 | 64 | 808 | 611 | 90 | 859 |
| Future Volume (vph) | 37 | 57 | 808 | 130 | 64 | 808 | 611 | 90 | 859 |
| Lane Group Flow (vph) | 37 | 89 | 808 | 319 | 64 | 808 | 611 | 90 | 879 |
| Turn Type | Prot | NA | Prot | NA | pm+pt | NA | Perm | pm+pt | NA |
| Protected Phases | 7 | 4 | 3 | 8 | 5 | 2 |  | 1 | 6 |
| Permitted Phases |  |  |  |  | 2 |  | 2 | 6 |  |
| Detector Phase | 7 | 4 | 3 | 8 | 5 | 2 | 2 | 1 | 6 |
| Switch Phase |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) | 5.0 | 10.0 | 5.0 | 10.0 | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 |
| Minimum Split (s) | 11.8 | 33.8 | 11.2 | 33.2 | 11.0 | 30.0 | 30.0 | 11.0 | 30.0 |
| Total Split (s) | 44.0 | 34.0 | 44.0 | 34.0 | 12.0 | 40.0 | 40.0 | 12.0 | 40.0 |
| Total Split (\%) | 33.8\% | 26.2\% | 33.8\% | 26.2\% | 9.2\% | 30.8\% | 30.8\% | 9.2\% | 30.8\% |
| Yellow Time (s) | 3.0 | 3.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| All-Red Time (s) | 3.8 | 3.8 | 2.5 | 2.5 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.8 | 6.8 | 6.2 | 6.2 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Recall Mode | None | None | None | None | None | C-Max | C-Max | None | C-Max |
| Act Effct Green (s) | 8.3 | 11.8 | 35.6 | 44.3 | 56.1 | 47.9 | 47.9 | 60.1 | 51.7 |
| Actuated g/C Ratio | 0.06 | 0.09 | 0.27 | 0.34 | 0.43 | 0.37 | 0.37 | 0.46 | 0.40 |
| v/c Ratio | 0.34 | 0.52 | 0.90 | 0.54 | 0.28 | 0.65 | 0.65 | 0.36 | 0.65 |
| Control Delay | 66.0 | 54.1 | 59.0 | 33.5 | 22.8 | 38.4 | 7.1 | 28.4 | 49.6 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 66.0 | 54.1 | 59.0 | 33.5 | 22.8 | 38.4 | 7.1 | 28.4 | 49.6 |
| LOS | E | D | E | C | C | D | A | C | D |
| Approach Delay |  | 57.6 |  | 51.8 |  | 24.8 |  |  | 47.6 |
| Approach LOS |  | E |  | D |  | C |  |  | D |
| Queue Length 50th (m) | 9.3 | 17.2 | 100.5 | 58.1 | 8.6 | 91.0 | 3.0 | 18.8 | 122.2 |
| Queue Length 95th (m) | 20.2 | 33.4 | 125.2 | 87.3 | 18.1 | 124.7 | 38.2 | m27.3 | m145.5 |
| Internal Link Dist (m) |  | 203.2 |  | 249.5 |  | 171.9 |  |  | 387.0 |
| Turn Bay Length (m) | 30.0 |  | 85.0 |  | 75.0 |  |  | 75.0 |  |
| Base Capacity (vph) | 485 | 368 | 956 | 587 | 226 | 1248 | 933 | 251 | 1346 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.24 | 0.85 | 0.54 | 0.28 | 0.65 | 0.65 | 0.36 | 0.65 |
| Intersection Summary |  |  |  |  |  |  |  |  |  |
| Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Offset: 98 (75\%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 110 |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.90 |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 40.1 |  |  |  | Intersection LOS: D |  |  |  |  |  |
| Intersection Capacity Utilization 78.0\% |  |  |  | ICU Level of Service D |  |  |  |  |  |
| Analysis Period (min) 15 |  |  |  |  |  |  |  |  |  |

$m$ Volume for 95 th percentile queue is metered by upstream signal.



Splits and Phases: 8: Erindale Dr \& Maitland Ave



Splits and Phases: 9: Maitland Ave \& Glenmount Ave


## Total Projected 2022


\# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.



Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 51.7\%
ICU Level of Service A
Analysis Period (min) 15


|  | $\geqslant$ | 4 |  | $\dagger$ |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBR | NBL | NBT | SBT |
| Lane Configurations | 「 | ${ }^{1}$ | 44 | 瑯 |
| Traffic Volume (vph) | 65 | 25 | 1312 | 901 |
| Future Volume (vph) | 65 | 25 | 1312 | 901 |
| Lane Group Flow (vph) | 65 | 25 | 1312 | 922 |
| Sign Control |  |  | Free | Free |

[^1]

|  | $\rangle$ | 4 | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | NBT | SBT |  |
| Lane Configurations | \% | 4 4 | 蚛 |  |
| Traffic Volume (vph) | 0 | 1303 | 941 |  |
| Future Volume (vph) | 0 | 1303 | 941 |  |
| Lane Group Flow (vph) | 38 | 1303 | 952 |  |
| Sign Control | Stop | Free | Free |  |
| Intersection Summary |  |  |  |  |
| Control Type: Unsignalized |  |  |  |  |
| $\frac{\text { Intersection Capacity Utilization 48.0\% }}{\text { Analysis Period (min) } 15}$ |  |  |  | ICU Level of Service A |
|  |  |  |  |  |




Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 43.3\%
ICU Level of Service A
Analysis Period (min) 15


|  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

Splits and Phases: 7: Merivale Rd \& Lotta Ave \& Clyde Ave


| Lane Group | EBT | WBL | WBT | NBL | $\varnothing 9$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | 中 ${ }^{\text {a }}$ |  | ¢4 | M |  |
| Traffic Volume (vph) | 730 | 8 | 1083 | 263 |  |
| Future Volume (vph) | 730 | 8 | 1083 | 263 |  |
| Lane Group Flow (vph) | 788 | 0 | 1091 | 315 |  |
| Turn Type | NA | Perm | NA | Perm |  |
| Protected Phases | 4 |  | 8 |  | 9 |
| Permitted Phases |  | 8 |  | 2 |  |
| Detector Phase | 4 | 8 | 8 | 2 |  |
| Switch Phase |  |  |  |  |  |
| Minimum Initial (s) | 10.0 | 10.0 | 10.0 | 10.0 | 3.0 |
| Minimum Split (s) | 29.1 | 24.5 | 24.5 | 30.4 | 5.0 |
| Total Split (s) | 59.0 | 59.0 | 59.0 | 31.0 | 5.0 |
| Total Split (\%) | 62.1\% | 62.1\% | 62.1\% | 32.6\% | 5\% |
| Yellow Time (s) | 3.3 | 3.3 | 3.3 | 3.3 | 2.0 |
| All-Red Time (s) | 1.8 | 8.4 | 8.4 | 2.1 | 0.0 |
| Lost Time Adjust (s) | 0.0 |  | 0.0 | 0.0 |  |
| Total Lost Time (s) | 5.1 |  | 11.7 | 5.4 |  |
| Lead/Lag |  |  |  |  |  |
| Lead-Lag Optimize? |  |  |  |  |  |
| Recall Mode | C-Max | C-Max | C-Max | None | one |
| Act Effct Green (s) | 62.1 |  | 55.5 | 22.4 |  |
| Actuated g/C Ratio | 0.65 |  | 0.58 | 0.24 |  |
| v/c Ratio | 0.36 |  | 0.58 | 0.78 |  |
| Control Delay | 8.6 |  | 12.4 | 46.2 |  |
| Queue Delay | 0.0 |  | 0.4 | 64.8 |  |
| Total Delay | 8.6 |  | 12.7 | 111.0 |  |
| LOS | A |  | B | F |  |
| Approach Delay | 8.6 |  | 12.7 | 111.0 |  |
| Approach LOS | A |  | B | F |  |
| Queue Length 50th (m) | 30.2 |  | 64.4 | 52.6 |  |
| Queue Length 95th (m) | 50.8 |  | 100.5 | 74.0 |  |
| Internal Link Dist (m) | 140.4 |  | 13.1 | 185.7 |  |
| Turn Bay Length (m) |  |  |  |  |  |
| Base Capacity (vph) | 2196 |  | 1876 | 473 |  |
| Starvation Cap Reductn | 0 |  | 303 | 0 |  |
| Spillback Cap Reductn | 23 |  | 0 | 292 |  |
| Storage Cap Reductn | 0 |  | 0 | 0 |  |
| Reduced v/c Ratio | 0.36 |  | 0.69 | 1.74 |  |
| Intersection Summary |  |  |  |  |  |
| Cycle Length: 95 |  |  |  |  |  |
| Actuated Cycle Length: 95 |  |  |  |  |  |
| Offset: 49 (52\%), Refere | to phase | 4:EBT | nd 8:WB | L, Start | reen |
| Natural Cycle: 75 |  |  |  |  |  |
| Control Type: Actuated-Coo | dinated |  |  |  |  |
| Maximum v/c Ratio: 0.78 |  |  |  |  |  |
| Intersection Signal Delay |  |  |  |  | ectio |
| Intersection Capacity Utiliza | on 70.5\% |  |  |  | evel |
| Analysis Period (min) 15 |  |  |  |  |  |

Splits and Phases: 8: Erindale Dr \& Maitland Ave



Splits and Phases: 9: Maitland Ave \& Glenmount Ave


|  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
\# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.



Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 57.5\%
ICU Level of Service B
Analysis Period (min) 15


|  | \% | 4 |  | $\frac{1}{1}$ |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBR | NBL | NBT | SBT |
| Lane Configurations | 「 | ${ }^{4}$ | 44 | 中 ${ }^{\text {F }}$ |
| Traffic Volume (vph) | 55 | 34 | 1498 | 954 |
| Future Volume (vph) | 55 | 34 | 1498 | 954 |
| Lane Group Flow (vph) | 55 | 34 | 1498 | 981 |
| Sign Control |  |  | Free | Free |

[^2]

|  | 4 | 4 | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | NBT | SBT |  |
| Lane Configurations | ${ }^{*}$ | 个个 | 中 ${ }^{\text {a }}$ |  |
| Traffic Volume（vph） | 0 | 1496 | 966 |  |
| Future Volume（vph） | 0 | 1496 | 966 |  |
| Lane Group Flow（vph） | 73 | 1496 | 977 |  |
| Sign Control | Stop | Free | Free |  |
| Intersection Summary |  |  |  |  |
| Control Type：Unsignalized |  |  |  |  |
| Intersection Capacity Utilization 55．1\％ |  |  |  | ICU Level of Service B |
| Analysis Period（min） 15 |  |  |  |  |




Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 55.2\%
ICU Level of Service B
Analysis Period (min) 15


|  | 4 |  | 4 |  | 4 | $\dagger$ |  | ( |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT |
| Lane Configurations | ${ }^{1}$ | F | ${ }^{4} 1$ | $\uparrow$ | ${ }^{1}$ | 44 | 「 | ${ }^{*}$ | 中 ${ }^{\text {P }}$ |
| Traffic Volume (vph) | 37 | 57 | 808 | 130 | 64 | 822 | 611 | 90 | 868 |
| Future Volume (vph) | 37 | 57 | 808 | 130 | 64 | 822 | 611 | 90 | 868 |
| Lane Group Flow (vph) | 37 | 89 | 808 | 319 | 64 | 822 | 611 | 90 | 888 |
| Turn Type | Prot | NA | Prot | NA | pm+pt | NA | Perm | pm+pt | NA |
| Protected Phases | 7 | 4 | 3 | 8 | 5 | 2 |  | 1 | 6 |
| Permitted Phases |  |  |  |  | 2 |  | 2 | 6 |  |
| Detector Phase | 7 | 4 | 3 | 8 | 5 | 2 | 2 | 1 | 6 |
| Switch Phase |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) | 5.0 | 10.0 | 5.0 | 10.0 | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 |
| Minimum Split (s) | 11.8 | 33.8 | 11.2 | 33.2 | 11.0 | 30.0 | 30.0 | 11.0 | 30.0 |
| Total Split (s) | 44.0 | 34.0 | 44.0 | 34.0 | 12.0 | 40.0 | 40.0 | 12.0 | 40.0 |
| Total Split (\%) | 33.8\% | 26.2\% | 33.8\% | 26.2\% | 9.2\% | 30.8\% | 30.8\% | 9.2\% | 30.8\% |
| Yellow Time (s) | 3.0 | 3.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| All-Red Time (s) | 3.8 | 3.8 | 2.5 | 2.5 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.8 | 6.8 | 6.2 | 6.2 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Recall Mode | None | None | None | None | None | C-Max | C-Max | None | C-Max |
| Act Effct Green (s) | 8.3 | 11.8 | 35.6 | 44.3 | 56.1 | 47.9 | 47.9 | 60.1 | 51.7 |
| Actuated g/C Ratio | 0.06 | 0.09 | 0.27 | 0.34 | 0.43 | 0.37 | 0.37 | 0.46 | 0.40 |
| v/c Ratio | 0.34 | 0.52 | 0.90 | 0.54 | 0.29 | 0.66 | 0.66 | 0.37 | 0.66 |
| Control Delay | 66.0 | 54.1 | 59.0 | 33.5 | 22.9 | 38.7 | 7.6 | 30.8 | 52.1 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 66.0 | 54.1 | 59.0 | 33.5 | 22.9 | 38.7 | 7.6 | 30.8 | 52.1 |
| LOS | E | D | E | C | C | D | A | C | D |
| Approach Delay |  | 57.6 |  | 51.8 |  | 25.3 |  |  | 50.1 |
| Approach LOS |  | E |  | D |  | C |  |  | D |
| Queue Length 50th (m) | 9.3 | 17.2 | 100.5 | 58.1 | 8.6 | 93.1 | 4.8 | 19.8 | 124.0 |
| Queue Length 95th (m) | 20.2 | 33.4 | 125.2 | 87.3 | 18.1 | 127.2 | 42.4 | m27.7 | 147.8 |
| Internal Link Dist (m) |  | 203.2 |  | 249.5 |  | 171.9 |  |  | 387.0 |
| Turn Bay Length (m) | 30.0 |  | 85.0 |  | 75.0 |  |  | 75.0 |  |
| Base Capacity (vph) | 485 | 368 | 956 | 587 | 224 | 1248 | 926 | 246 | 1346 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.24 | 0.85 | 0.54 | 0.29 | 0.66 | 0.66 | 0.37 | 0.66 |
| Intersection Summary |  |  |  |  |  |  |  |  |  |
| Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Offset: 98 (75\%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 110 |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.90 |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 40.9 |  |  |  | Intersection LOS: D |  |  |  |  |  |
| Intersection Capacity Utilization 78.3\% |  |  |  | ICU Level of Service D |  |  |  |  |  |
| Analysis Period (min) 15 |  |  |  |  |  |  |  |  |  |

$m$ Volume for 95 th percentile queue is metered by upstream signal.



Splits and Phases: 8: Erindale Dr \& Maitland Ave



Splits and Phases: 9: Maitland Ave \& Glenmount Ave


## Total Projected 2026

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

\# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.



Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 51.7\%
ICU Level of Service A
Analysis Period (min) 15


|  | \% | 4 | 4 | $\frac{1}{7}$ |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBR | NBL | NBT | SBT |
| Lane Configurations | 「 | ${ }^{1}$ | 44 | 虫 |
| Traffic Volume (vph) | 35 | 44 | 1299 | 900 |
| Future Volume (vph) | 35 | 44 | 1299 | 900 |
| Lane Group Flow (vph) | 35 | 44 | 1299 | 912 |
| Sign Control |  |  | Free | Free |

[^3]

|  | $\rangle$ | 4 | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | NBT | SBT |  |
| Lane Configurations | \% | 4 4 | 中 ${ }^{\text {a }}$ |  |
| Traffic Volume (vph) | 0 | 1309 | 906 |  |
| Future Volume (vph) | 0 | 1309 | 906 |  |
| Lane Group Flow (vph) | 40 | 1309 | 930 |  |
| Sign Control | Stop | Free | Free |  |
| Intersection Summary |  |  |  |  |
| Control Type: Unsignalized |  |  |  |  |
| Intersection Capacity Utilization 48.2\%Analysis Period (min) 15 |  |  |  | ICU Level of Service A |
|  |  |  |  |  |



|  | $\rightarrow$ | $\leftarrow$ |  |
| :--- | ---: | ---: | ---: |
|  | $\rightarrow$ |  |  |
|  | EBT | WBT | SBR |
| Lane Group | $\uparrow \uparrow$ | $\uparrow \uparrow$ | $\mathbf{F}$ |
| Lane Configurations | 1370 | 631 | 40 |
| Traffic Volume (vph) | 1370 | 631 | 40 |
| Future Volume (vph) | 1370 | 631 | 40 |
| Lane Group Flow (vph) | 130 |  |  |
| Sign Control | Free | Free |  |

Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 43.3\%
ICU Level of Service A
Analysis Period (min) 15


|  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

Splits and Phases: 7: Merivale Rd \& Lotta Ave \& Clyde Ave



Splits and Phases: 8: Erindale Dr \& Maitland Ave



Splits and Phases: 9: Maitland Ave \& Glenmount Ave


|  |  |  |  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.
\# 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

Splits and Phases: 1: Clyde Ave \& Baseline Rd



Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 57.0\%
ICU Level of Service B
Analysis Period (min) 15



[^4]

|  | $y$ | 4 | $\downarrow$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | NBT | SBT |  |
| Lane Configurations | ${ }^{7}$ | 性 | 蚛 |  |
| Traffic Volume (vph) | 0 | 1490 | 927 |  |
| Future Volume (vph) | 0 | 1490 | 927 |  |
| Lane Group Flow (vph) | 34 | 1490 | 959 |  |
| Sign Control | Stop | Free | Free |  |
| Intersection Summary |  |  |  |  |
| Control Type: Unsignalized |  |  |  |  |
| Intersection Capacity Utilization 53.5\%Analysis Period (min) 15 |  |  |  | ICU Level of Service A |
|  |  |  |  |  |




Intersection Summary
Control Type: Unsignalized
Intersection Capacity Utilization 54.8\% ICU Level of Service A
Analysis Period (min) 15


|  | 4 |  | 4 |  | 4 | $\dagger$ |  | ( |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Group | EBL | EBT | WBL | WBT | NBL | NBT | NBR | SBL | SBT |
| Lane Configurations | ${ }^{1}$ | F | ${ }^{4} 1$ | $\uparrow$ | ${ }^{1}$ | 44 | 「 | ${ }^{*}$ | 中 ${ }^{\text {P }}$ |
| Traffic Volume (vph) | 37 | 57 | 808 | 130 | 64 | 812 | 611 | 90 | 858 |
| Future Volume (vph) | 37 | 57 | 808 | 130 | 64 | 812 | 611 | 90 | 858 |
| Lane Group Flow (vph) | 37 | 89 | 808 | 319 | 64 | 812 | 611 | 90 | 878 |
| Turn Type | Prot | NA | Prot | NA | pm+pt | NA | Perm | pm+pt | NA |
| Protected Phases | 7 | 4 | 3 | 8 | 5 | 2 |  | 1 | 6 |
| Permitted Phases |  |  |  |  | 2 |  | 2 | 6 |  |
| Detector Phase | 7 | 4 | 3 | 8 | 5 | 2 | 2 | 1 | 6 |
| Switch Phase |  |  |  |  |  |  |  |  |  |
| Minimum Initial (s) | 5.0 | 10.0 | 5.0 | 10.0 | 5.0 | 10.0 | 10.0 | 5.0 | 10.0 |
| Minimum Split (s) | 11.8 | 33.8 | 11.2 | 33.2 | 11.0 | 30.0 | 30.0 | 11.0 | 30.0 |
| Total Split (s) | 44.0 | 34.0 | 44.0 | 34.0 | 12.0 | 40.0 | 40.0 | 12.0 | 40.0 |
| Total Split (\%) | 33.8\% | 26.2\% | 33.8\% | 26.2\% | 9.2\% | 30.8\% | 30.8\% | 9.2\% | 30.8\% |
| Yellow Time (s) | 3.0 | 3.0 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| All-Red Time (s) | 3.8 | 3.8 | 2.5 | 2.5 | 2.3 | 2.3 | 2.3 | 2.3 | 2.3 |
| Lost Time Adjust (s) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Lost Time (s) | 6.8 | 6.8 | 6.2 | 6.2 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| Lead/Lag | Lead | Lag | Lead | Lag | Lead | Lag | Lag | Lead | Lag |
| Lead-Lag Optimize? | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Recall Mode | None | None | None | None | None | C-Max | C-Max | None | C-Max |
| Act Effct Green (s) | 8.3 | 11.8 | 35.6 | 44.3 | 56.1 | 47.9 | 47.9 | 60.1 | 51.7 |
| Actuated g/C Ratio | 0.06 | 0.09 | 0.27 | 0.34 | 0.43 | 0.37 | 0.37 | 0.46 | 0.40 |
| v/c Ratio | 0.34 | 0.52 | 0.90 | 0.54 | 0.28 | 0.65 | 0.66 | 0.36 | 0.65 |
| Control Delay | 66.0 | 54.1 | 59.0 | 33.5 | 22.8 | 38.5 | 7.2 | 31.3 | 52.4 |
| Queue Delay | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Total Delay | 66.0 | 54.1 | 59.0 | 33.5 | 22.8 | 38.5 | 7.2 | 31.3 | 52.4 |
| LOS | E | D | E | C | C | D | A | C | D |
| Approach Delay |  | 57.6 |  | 51.8 |  | 25.0 |  |  | 50.5 |
| Approach LOS |  | E |  | D |  | C |  |  | D |
| Queue Length 50th (m) | 9.3 | 17.2 | 100.5 | 58.1 | 8.6 | 91.6 | 3.5 | 19.8 | 122.2 |
| Queue Length 95th (m) | 20.2 | 33.4 | 125.2 | 87.3 | 18.1 | 125.5 | 39.4 | m28.7 | 146.5 |
| Internal Link Dist (m) |  | 203.2 |  | 249.5 |  | 171.9 |  |  | 387.0 |
| Turn Bay Length (m) | 30.0 |  | 85.0 |  | 75.0 |  |  | 75.0 |  |
| Base Capacity (vph) | 485 | 368 | 956 | 587 | 227 | 1248 | 931 | 250 | 1346 |
| Starvation Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Spillback Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Storage Cap Reductn | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Reduced v/c Ratio | 0.08 | 0.24 | 0.85 | 0.54 | 0.28 | 0.65 | 0.66 | 0.36 | 0.65 |
| Intersection Summary |  |  |  |  |  |  |  |  |  |
| Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Actuated Cycle Length: 130 |  |  |  |  |  |  |  |  |  |
| Offset: 98 (75\%), Referenced to phase 2:NBTL and 6:SBTL, Start of Green |  |  |  |  |  |  |  |  |  |
| Natural Cycle: 110 |  |  |  |  |  |  |  |  |  |
| Control Type: Actuated-Coordinated |  |  |  |  |  |  |  |  |  |
| Maximum v/c Ratio: 0.90 |  |  |  |  |  |  |  |  |  |
| Intersection Signal Delay: 40.9 |  |  |  | Intersection LOS: D |  |  |  |  |  |
| Intersection Capacity Utilization 78.0\% |  |  |  | ICU Level of Service D |  |  |  |  |  |
| Analysis Period (min) 15 |  |  |  |  |  |  |  |  |  |

$m$ Volume for 95 th percentile queue is metered by upstream signal.


| Lane Group | EBT | WBL | WBT | NBL | $\emptyset 9$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Lane Configurations | 中 ${ }^{\text {a }}$ |  | ** | * |  |
| Traffic Volume (vph) | 924 | 20 | 1169 | 58 |  |
| Future Volume (vph) | 924 | 20 | 1169 | 58 |  |
| Lane Group Flow (vph) | 1028 | 0 | 1189 | 80 |  |
| Turn Type | NA | Perm | NA | Perm |  |
| Protected Phases | 4 |  | 8 |  | 9 |
| Permitted Phases |  | 8 |  | 2 |  |
| Detector Phase | 4 | 8 | 8 | 2 |  |
| Switch Phase |  |  |  |  |  |
| Minimum Initial (s) | 10.0 | 10.0 | 10.0 | 10.0 | 3.0 |
| Minimum Split (s) | 29.1 | 24.5 | 24.5 | 30.4 | 5.0 |
| Total Split (s) | 59.0 | 59.0 | 59.0 | 31.0 | 5.0 |
| Total Split (\%) | 62.1\% | 62.1\% | 62.1\% | 32.6\% | 5\% |
| Yellow Time (s) | 3.3 | 3.3 | 3.3 | 3.3 | 2.0 |
| All-Red Time (s) | 1.8 | 8.4 | 8.4 | 2.1 | 0.0 |
| Lost Time Adjust (s) | 0.0 |  | 0.0 | 0.0 |  |
| Total Lost Time (s) | 5.1 |  | 11.7 | 5.4 |  |
| Lead/Lag |  |  |  |  |  |
| Lead-Lag Optimize? |  |  |  |  |  |
| Recall Mode | C-Max | C-Max | C-Max | None | None |
| Act Effct Green (s) | 77.9 |  | 72.6 | 10.7 |  |
| Actuated g/C Ratio | 0.82 |  | 0.76 | 0.11 |  |
| v/c Ratio | 0.37 |  | 0.50 | 0.39 |  |
| Control Delay | 3.4 |  | 4.1 | 36.0 |  |
| Queue Delay | 0.0 |  | 0.0 | 2.2 |  |
| Total Delay | 3.5 |  | 4.2 | 38.2 |  |
| LOS | A |  | A | D |  |
| Approach Delay | 3.5 |  | 4.2 | 38.2 |  |
| Approach LOS | A |  | A | D |  |
| Queue Length 50th (m) | 23.3 |  | 14.8 | 10.4 |  |
| Queue Length 95th (m) | 36.3 |  | 18.4 | 23.5 |  |
| Internal Link Dist (m) | 140.4 |  | 13.1 | 185.7 |  |
| Turn Bay Length (m) |  |  |  |  |  |
| Base Capacity (vph) | 2742 |  | 2385 | 461 |  |
| Starvation Cap Reductn | 0 |  | 139 | 0 |  |
| Spillback Cap Reductn | 105 |  | 0 | 283 |  |
| Storage Cap Reductn | 0 |  | 0 | 0 |  |
| Reduced v/c Ratio | 0.39 |  | 0.53 | 0.45 |  |
| Intersection Summary |  |  |  |  |  |
| Cycle Length: 95 |  |  |  |  |  |
| Actuated Cycle Length: 95 |  |  |  |  |  |
| Offset: 33 (35\%), Referen | to phase | 4:EBT | nd 8:WB | L, Start | Green |
| Natural Cycle: 80 |  |  |  |  |  |
| Control Type: Actuated-C | dinated |  |  |  |  |
| Maximum v/c Ratio: 0.50 |  |  |  |  |  |
| Intersection Signal Delay |  |  |  |  | sectio |
| Intersection Capacity Utiliz | - 71.7\% |  |  |  | Level |
| Analysis Period (min) 15 |  |  |  |  |  |

Splits and Phases: 8: Erindale Dr \& Maitland Ave



Splits and Phases: 9: Maitland Ave \& Glenmount Ave



[^0]:    5461338 - TUE JAN 21, 2020-8HRS - SHAWN MCGUIRE

[^1]:    Intersection Summary
    Control Type: Unsignalized
    Intersection Capacity Utilization 41.6\%
    ICU Level of Service A
    Analysis Period (min) 15

[^2]:    Intersection Summary
    Control Type: Unsignalized
    Intersection Capacity Utilization 47.0\%
    ICU Level of Service A
    Analysis Period (min) 15

[^3]:    Intersection Summary
    Control Type: Unsignalized
    Intersection Capacity Utilization 41.2\%
    ICU Level of Service A
    Analysis Period (min) 15

[^4]:    Intersection Summary
    Control Type: Unsignalized
    Intersection Capacity Utilization 46.8\%
    ICU Level of Service A
    Analysis Period (min) 15

