

4TH ANNUAL TRAFFIC & SAFETY REVIEW

CODRINGTON PIT

FINAL ▪ SEPTEMBER 2020

REPORT PREPARED FOR



**VOTORANTIM CIMENTOS (CBM
AGGREGATES)**
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REPORT PREPARED BY



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TMIG PROJECT NUMBER 17169



EXECUTIVE SUMMARY

This study represents the fourth annual Traffic and Safety Review of the now-operating Codrington Pit and its site access to County Road 30.

This report concludes:

- ✓ The Pit access continues to operate in accordance with the conditions of the OMB Settlement and the executed Development Agreement, and to the satisfaction of the County of Northumberland.
- ✓ Codrington Pit truck activity has again been measured to be less than forecasted in the approved traffic impact study (i.e., much less than the approved annual extraction amount), which is consistent with available shipping activity records obtained from CBM.
- ✓ County Road 30 passing traffic was also observed to be less than forecasted in the original traffic study and there has been virtually no growth in traffic along this section of roadway since the last annual traffic and safety review (or even over the last 13 years).
- ✓ Intersection analyses indicates very good peak hour traffic operations are being experienced at the Pit access, with excess capacity available for future traffic growth and/or increased Pit activity.
- ✓ There were no records of collisions in the study area since the opening of the Pit access related to pit operations including aggregate trucks.
- ✓ TMIG finds the Codrington Pit access is operating as intended, and given the available information, provides an acceptable degree of efficiency and safety.

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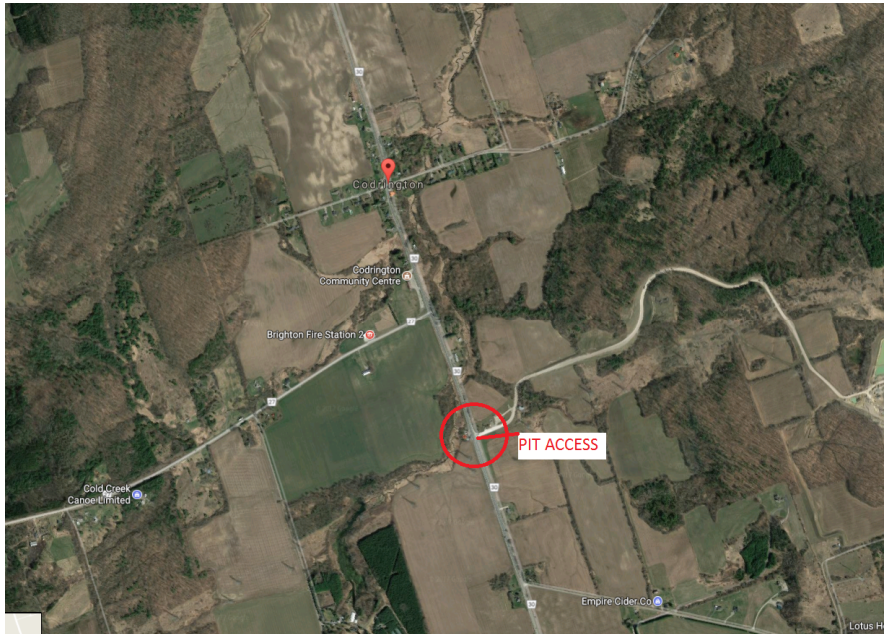
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1 INTRODUCTION

1.1 Retainer and Objective

The Municipal Infrastructure Group Ltd. (TMIG) was retained by Votorantim Cimentos (CBM Aggregates) to prepare a fourth annual Traffic and Safety Review for Codrington Pit, herein after referred to as the 'Pit', in Northumberland County. The Pit site is located south of the hamlet of Codrington on the east side of County Road 30, between of County Road No. 27 and Old Wooler Road, as illustrated on **Figure 1-1**.

Figure 1-1 Site Location



This Review has been prepared to ensure that the Codrington Pit entrance and County Road 30 in the vicinity of the Pit access are operating as anticipated. The report includes information on how the operation of the Pit is affecting traffic on County Road 30 from an operational and safety perspective.

The Traffic and Safety Review will address the following items:

- Review traffic volumes generated by Codrington Pit and the forecasted County Road 30 passing traffic.
- Monitor performance of the Pit access during the periods of typical shipping activity.
- Review available collision statistics at the new Pit access.
- Report on any traffic incidents filed (if any) that have been reported by, or to CBM, through the formal reporting system, by independent truckers or by residents / travelling public.

1.2 Study Background

CBM Aggregates operates Codrington Pit, located in Codrington, Municipality of Brighton, Northumberland County known (municipally) as 2851 County Road 30. The existing Pit is permitted to ship a maximum of 650,000 tonnes per year.

As part of the approved and executed Development Agreement with the County (excerpt copied below), CBM Aggregates is to complete an annual traffic and safety review for County Road 30:

“St. Marys [CBM] agree that it shall, at its sole cost, provide the County with an annual report with respect to traffic operations and road safety on County Road 30 in the vicinity of the intersection. The report shall be based on traffic and accident information obtained from the Ontario Provincial Police, the County Roads Department and St. Marys”.

The enclosed report is the fourth annual examination following the opening of the Pit in 2016 and builds on the first, second, and third annual traffic and safety reviews completed in 2017, 2018, and 2019 respectively by TMIG. We have also reviewed the approved Traffic Impact Study conducted by Grant A. Bacchus Ltd. (GAB Ltd.) dated June 2007 as well as a Road Safety Assessment conducted by GHD, dated March 2013, and have utilized the information contained in all prior submissions as the basis for the enclosed report and analyses.

1.3 Site Area

The study area includes the following unsignalized intersection:

- County Road 30 at Codrington Pit Access

2 BASELINE TRAFFIC

This section summarizes the proposed haul route, summarizes the data collection program, and presents the existing (2020) traffic volumes conditions at the study intersection (County Road 30 / Codrington Pit Access).

2.1 Haul Route

The 'haul route' for the purposes of this study remains unchanged and includes the Codrington Pit access to County Road 30.

County Road 30 is a north-south provincial highway with a posted speed limit of 80 km/h, a localized two-lane rural cross section, and is a designated haul route as per the Northumberland County Official Plan.

As part of the OMB Settlement for the Pit, as stipulated in the Development Agreement, CBM has constructed the Codrington Pit access to County Road 30 with a northbound auxiliary right turn deceleration and storage lane of approximately 120 metres plus a southbound acceleration lane of approximately 485 metres (excluding tapers). A section of the shoulder on both sides of County Road 30 has also been paved in proximity of the Pit access to facilitate active transportation (pedestrians and cyclists).

The auxiliary lanes were designed and constructed to facilitate safe and efficient access/egress of heavy trucks generated by the Pit in the primary direction of travel to/from the aggregate market (i.e., to/from the south). The original (as approved) traffic studies posited that local deliveries of material (either into or out of the Pit) could very well occur to/from the north, however the vast majority of truck traffic was forecasted to come from, and be destined to, point's south on County Road 30.

2.2 County Road 30 Traffic Growth Review

The 2020 traffic data was reviewed and compared with the historic traffic data collected and presented in the traffic study prepared for the original Pit application, and the three prior traffic and safety reviews in 2017, 2018, and 2019.

It is evident from a review of this data that volumes along County Road 30 have not increased materially since 2007; the p.m. flows have increased by about 19%, while the a.m. peak hour flows have actually *decreased* over the last 13 years (when compared to 2007 traffic volumes):

- Two-way traffic 2007 – 507 and 446 vehicles during the a.m. and p.m. peak hours respectively
- Two-way traffic 2017 – 368 and 440 vehicles during the a.m. and p.m. peak hours respectively
- Two-way traffic 2018 – 436 and 470 vehicles during the a.m. and p.m. peak hours respectively
- Two-way traffic 2019 – 464 and 532 vehicles during the a.m. and p.m. peak hours respectively
- Two-way traffic 2020 – 425 and 458 vehicles during the a.m. and p.m. peak hours respectively

The original traffic study forecasted growth on County Road 30 at the rate of 2% per year (equating to a compounded 12-year growth of 27%), well in excess of what has actually transpired in the period subsequent to the tabling of the 2007 traffic study and the approval of the Pit. It should be noted that a slight decrease in traffic was observed when comparing 2020 to 2019 traffic volumes, this is assumed to attributed to COVID-19.

We would also note that the recommendations for the Pit access lane configurations and design were partially driven by predicted future County Road 30 traffic volumes. Since the predicted growth has not occurred at the rate predicted back in 2007, the Pit access turn lanes constructed to accommodate the future condition are still more than adequate to handle present day peaks. Furthermore, the as-constructed design elements of the site access continue to exceed the operational requirements of the Pit-related traffic volumes.

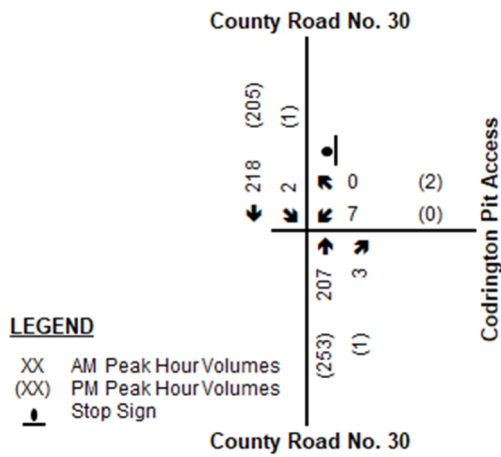
2.3 Traffic Data

A weekday turning movement count was conducted by TMIG in August 2020 at the intersection of County Road 30 and the Pit Access during the weekday from 06:00-19:00.

2.3.1 Adjacent Street Traffic

The weekday a.m. and p.m. peak hour existing *adjacent street* traffic volumes are shown in **Figure 2-1**. Please note that aggregate truck movements to/from the site have been removed from the adjacent street peak hour. However, staff passenger vehicles observed to/from the site during the peak hours remain. The complete traffic survey summary is provided in **Appendix A**.

Figure 2-1 2020 Existing Adjacent Street Traffic Volumes

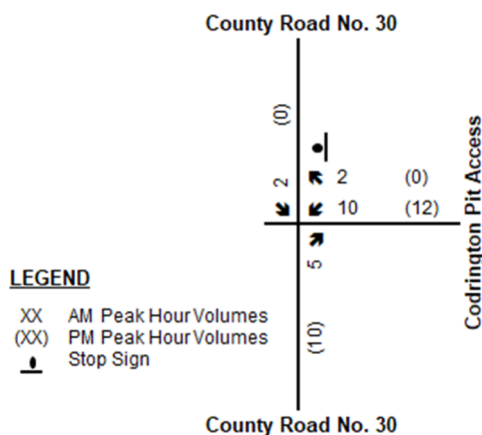


2.3.2 Peak Truck Activity

The peak hour of truck traffic entering and exiting from the site access was extracted from the August 2020 turning movement counts and was used to represent the highest level of subject site traffic. These truck traffic volumes were confirmed as representative of a typical shipping period, based on a review of the shipping activity records provided by CBM. The mid-period peak hour truck traffic exceeded the p.m. peak hour truck traffic, and was conservatively used for the p.m. peak hour truck traffic volumes to provide the most conservative traffic estimate.

Accordingly, in the period of highest truck traffic as per the 2020 turning movement counts, there are 12 truck trips in/out of the site during both the a.m. and p.m. truck peak hours, as shown in **Figure 2-2**.

Figure 2-2 2020 Peak Truck Activity



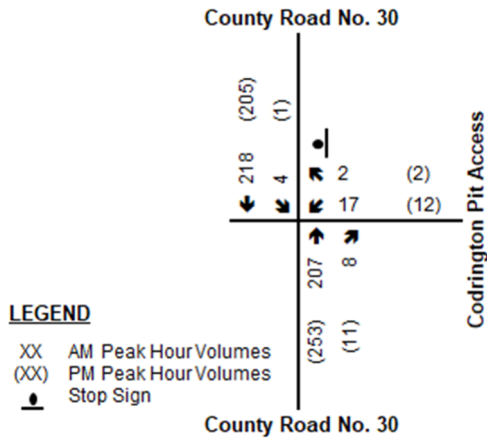
The inbound and outbound splits continue to be consistent with the forecasted haulage of material back in the 2007 Traffic Study, which predicted the vast majority of truck trips to be destined to, and originating from, the south along County Road 30. As can be seen from a review of the 2020 traffic data, the counts indicate some truck traffic to and from the north which can be attributed to some local delivery of material to destinations north of the site. As per the 2007 Traffic Study, we have been advised that the predominant market for the movement of aggregate material would be to the south along County Road No. 30 to its connections with Highway No. 401 as reflected in **Figure 2-2**.

2.4 Baseline Traffic Volumes

The baseline traffic conditions for the peak study hours in 2020 was derived by combining the existing adjacent street a.m. and p.m. peak hour traffic and the peak hour of truck traffic to represent a high demand traffic model. It is important to note that this 'hybrid' peak hour was not in evidence during the counts, but we have adopted it to represent a 'worse case' scenario of busiest combined corridor activity.

Figure 2-3 summarize the total 'hybridized' traffic volume condition during the weekday a.m. and p.m. peak hours.

Figure 2-3 2020 Baseline Traffic Volumes

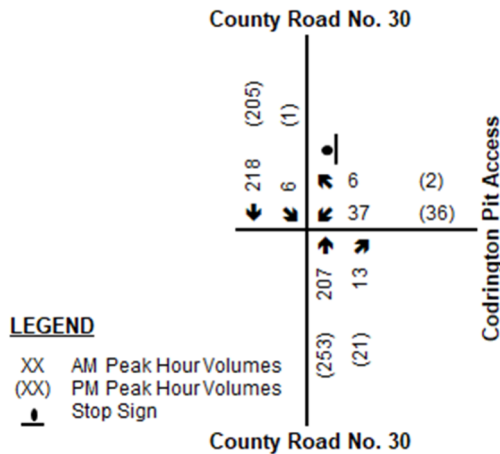


3 CAPACITY ANALYSIS

For the purpose of the traffic analysis, we have employed Passenger Car Equivalent (PCE) factors to account for the additional time it takes a heavy vehicle (in this case, different PCE's for each the loaded and empty gravel trucks) to travel through an intersection. Based on our experience, we have adopted a PCE of 3.0 for loaded trucks and a PCE of 2.0 for empty trucks. As a conservative measure, and to provide a consistent comparative analysis between all existing and future traffic scenarios, the PCE adjustment was applied to baseline turning movement volumes to/from the pit access.

The truck traffic volumes expressed as PCEs are shown in **Figure 3-1**.

Figure 3-1 2020 Baseline Traffic Volumes – PCE Adjusted



The capacity analysis identifies how well an intersection is operating. The analysis contained within this report utilized the Highway Capacity Manual (HCM) 2000 techniques within the Synchro Version 10 Software package. The reported intersection volume-to-capacity ratios (v/c) are a measure of the saturation volume for each turning movement, while the levels-of-service (LOS) are a measure of the average delay for each turning movement. Queuing characteristics are reported as the predicted 95th percentile queue for each turning movement. The existing heavy vehicle proportions are included in the intersection analyses. Detailed capacity sheets are attached in **Appendix B**.

The peak hour entrance operations are summarized in **Table 3-1**.

Table 3-1 Capacity Analysis of Codrington Pit Access and County Road 30

| Traffic Condition | Movement v/c (LOS) 95 th Percentile Queue, Delay in Seconds | |
|-------------------|--|---|
| | AM Peak Hour | PM Peak Hour |
| Baseline 2020 | WBLR: 0.08 (B) 1 veh. 12s SBLT: 0.00 (A) 0 veh. 1s | WBLR: 0.11 (C) 1 veh. 15s SBLT: 0.00 (A) 0 veh. 0s |

Under 2020 baseline conditions, the intersection of County Road 30 and the Codrington Pit Access is operating with excellent operational characteristics and substantial reserve capacity during both a.m. and p.m. peak hours. There are no critical movements or queuing issues to report. The outbound (westbound) left and right turns from the Pit are operating at LOS 'B' and 'C' during weekday a.m. and p.m. peak hours respectively. These results indicate the site access design delivered as part of the Pit approval are easily accommodating even the combined 'hybrid' peak hour demands and that substantial excess capacity exists.

4 INCIDENT REPORTS

4.1 Collision Reports

TMIG have consulted with the agencies responsible for collision reports within vicinity of site. The following summarizes the responses received:

- County of Northumberland:
 - The County of Northumberland currently have access to MTO's collision database, unfortunately the information can only be used internally by the County. However, the County's road supervisors confirmed one vehicular collision (non-pit operation related) in 2019 at County Road 30 and Loomis Road.

There have been no accidents related to the pit operations and no accidents involving aggregate trucks within the vicinity of the site within the past year.

4.2 CBM Reported Incidents

No incidents occurred near or at the site during this past year.

5 CONCLUSION

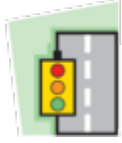
The Pit access turn lanes constructed to accommodate the future condition are still more than adequate to handle present day peaks, and continue to exceed the operational requirements of the Pit-related traffic volumes.

County of Northumberland road supervisors confirmed that they have not heard of any traffic concerns in the study area.

There have been no incidents relating to the pit operations and there were no recorded collisions with aggregate trucks in this past year.

APPENDIX A

Traffic Data



Ontario Traffic Inc.
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Project #20-126 - TMIG

Intersection Count Report

| | |
|--------------------------|---|
| Intersection: | CR 30 & Codrington Pit Access |
| Municipality: | Codrington |
| Count Date: | Aug 20, 2020 |
| Site Code: | 2012600001 |
| Count Categories: | Cars, Trucks, Aggregate Trucks, Pedestrians |
| Count Period: | 06:00-19:00 |
| Weather: | Clear |



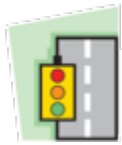
Traffic Count Map

Intersection: CR 30 & Codrington Pit Access

Municipality: Codrington

Count Date: Aug 20, 2020





Ontario Traffic Inc.
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Traffic Count Summary

Intersection: CR 30 & Codrington Pit Access
Municipality: Codrington
Count Date: Aug 20, 2020

CR 30 - Traffic Summary

| Hour | North Approach Totals | | | | | | South Approach Totals | | | | | |
|----------------------|---|-------------|----------|----------|-------------|----------|---|-------------|-----------|----------|-------------|----------|
| | Includes Cars, Trucks, Aggregate Trucks | | | | | | Includes Cars, Trucks, Aggregate Trucks | | | | | |
| | Left | Thru | Right | U-Turn | Total | Peds | Left | Thru | Right | U-Turn | Total | Peds |
| 06:00 - 07:00 | 2 | 176 | 0 | 0 | 178 | 0 | 0 | 181 | 12 | 0 | 193 | 0 |
| 07:00 - 08:00 | 3 | 192 | 0 | 0 | 195 | 0 | 3 | 193 | 8 | 0 | 204 | 4 |
| 08:00 - 09:00 | 2 | 136 | 0 | 0 | 138 | 0 | 0 | 125 | 3 | 0 | 128 | 0 |
| 09:00 - 10:00 | 2 | 146 | 0 | 0 | 148 | 1 | 0 | 142 | 10 | 0 | 152 | 1 |
| 10:00 - 11:00 | 0 | 194 | 0 | 0 | 194 | 0 | 1 | 216 | 11 | 0 | 228 | 0 |
| 11:00 - 12:00 | 0 | 171 | 0 | 0 | 171 | 0 | 1 | 235 | 6 | 0 | 242 | 0 |
| 12:00 - 13:00 | 0 | 112 | 0 | 0 | 112 | 0 | 0 | 188 | 3 | 0 | 191 | 0 |
| 13:00 - 14:00 | 1 | 175 | 0 | 0 | 176 | 0 | 1 | 199 | 6 | 0 | 206 | 1 |
| 14:00 - 15:00 | 1 | 145 | 0 | 0 | 146 | 0 | 0 | 175 | 9 | 0 | 184 | 0 |
| 15:00 - 16:00 | 1 | 188 | 0 | 0 | 189 | 0 | 0 | 222 | 9 | 0 | 231 | 0 |
| 16:00 - 17:00 | 0 | 143 | 0 | 0 | 143 | 0 | 0 | 171 | 2 | 0 | 173 | 0 |
| 17:00 - 18:00 | 1 | 205 | 0 | 0 | 206 | 0 | 0 | 243 | 6 | 0 | 249 | 0 |
| 18:00 - 19:00 | 1 | 193 | 0 | 0 | 194 | 0 | 0 | 256 | 1 | 0 | 257 | 0 |
| GRAND TOTAL | 14 | 2176 | 0 | 0 | 2190 | 1 | 6 | 2546 | 86 | 0 | 2638 | 6 |



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Traffic Count Data

Intersection: CR 30 & Codrington Pit Access

Municipality: Codrington

Count Date: Aug 20, 2020

North Approach - CR 30

| Start Time | Cars | | | | | Trucks | | | | | Aggregate Trucks | | | | | Total Peds |
|------------|------|----|---|---|-------|--------|---|---|---|-------|------------------|---|---|---|-------|------------|
| | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | |
| 06:00 | 0 | 25 | 0 | 0 | 25 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06:15 | 1 | 25 | 0 | 0 | 26 | 0 | 7 | 0 | 0 | 7 | 0 | 2 | 0 | 0 | 2 | 0 |
| 06:30 | 0 | 38 | 0 | 0 | 38 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06:45 | 1 | 64 | 0 | 0 | 65 | 0 | 8 | 0 | 0 | 8 | 0 | 2 | 0 | 0 | 2 | 0 |
| 07:00 | 0 | 31 | 0 | 0 | 31 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 07:15 | 0 | 41 | 0 | 0 | 41 | 1 | 3 | 0 | 0 | 4 | 2 | 0 | 0 | 0 | 2 | 0 |
| 07:30 | 0 | 57 | 0 | 0 | 57 | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 1 | 0 |
| 07:45 | 0 | 45 | 0 | 0 | 45 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:00 | 0 | 32 | 0 | 0 | 32 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 0 | 33 | 0 | 0 | 33 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 34 | 0 | 0 | 34 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:45 | 1 | 25 | 0 | 0 | 26 | 1 | 3 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:00 | 0 | 24 | 0 | 0 | 24 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 1 |
| 09:15 | 1 | 26 | 0 | 0 | 27 | 0 | 5 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 1 | 0 |
| 09:30 | 0 | 29 | 0 | 0 | 29 | 0 | 6 | 0 | 0 | 6 | 1 | 3 | 0 | 0 | 4 | 0 |
| 09:45 | 0 | 41 | 0 | 0 | 41 | 0 | 5 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 2 | 0 |
| 10:00 | 0 | 52 | 0 | 0 | 52 | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 0 | 0 | 1 | 0 |
| 10:15 | 0 | 48 | 0 | 0 | 48 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:30 | 0 | 43 | 0 | 0 | 43 | 0 | 8 | 0 | 0 | 8 | 0 | 2 | 0 | 0 | 2 | 0 |
| 10:45 | 0 | 26 | 0 | 0 | 26 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:00 | 0 | 43 | 0 | 0 | 43 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |



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Traffic Count Data

Intersection: CR 30 & Codrington Pit Access
Municipality: Codrington
Count Date: Aug 20, 2020

North Approach - CR 30

| Start Time | Cars | | | | | Trucks | | | | | Aggregate Trucks | | | | | Total Peds |
|------------|------|----|---|---|-------|--------|---|---|---|-------|------------------|---|---|---|-------|------------|
| | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | |
| 11:15 | 0 | 37 | 0 | 0 | 37 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:30 | 0 | 36 | 0 | 0 | 36 | 0 | 5 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 1 | 0 |
| 11:45 | 0 | 36 | 0 | 0 | 36 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:00 | 0 | 22 | 0 | 0 | 22 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:15 | 0 | 24 | 0 | 0 | 24 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:30 | 0 | 25 | 0 | 0 | 25 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:45 | 0 | 31 | 0 | 0 | 31 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:00 | 0 | 30 | 0 | 0 | 30 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:15 | 0 | 48 | 0 | 0 | 48 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:30 | 1 | 41 | 0 | 0 | 42 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 0 | 0 | 1 | 0 |
| 13:45 | 0 | 44 | 0 | 0 | 44 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:00 | 0 | 32 | 0 | 0 | 32 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:15 | 1 | 35 | 0 | 0 | 36 | 0 | 5 | 0 | 0 | 5 | 0 | 1 | 0 | 0 | 1 | 0 |
| 14:30 | 0 | 31 | 0 | 0 | 31 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 0 | 33 | 0 | 0 | 33 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 51 | 0 | 0 | 51 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 1 | 36 | 0 | 0 | 37 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 50 | 0 | 0 | 50 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 0 | 31 | 0 | 0 | 31 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 23 | 0 | 0 | 23 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 32 | 0 | 0 | 32 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |



Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES & PRODUCTS

Traffic Count Data

Intersection: CR 30 & Codrington Pit Access
Municipality: Codrington
Count Date: Aug 20, 2020

North Approach - CR 30

| Start Time | Cars | | | | | Trucks | | | | | Aggregate Trucks | | | | | Total Peds |
|--------------------|------|------|---|---|-------|--------|-----|---|---|-------|------------------|----|---|---|-------|------------|
| | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | |
| 16:30 | 0 | 34 | 0 | 0 | 34 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 44 | 0 | 0 | 44 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 41 | 0 | 0 | 41 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:15 | 0 | 50 | 0 | 0 | 50 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:30 | 1 | 57 | 0 | 0 | 58 | 0 | 3 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 2 | 0 |
| 17:45 | 0 | 35 | 0 | 0 | 35 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:00 | 0 | 39 | 0 | 0 | 39 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 1 | 36 | 0 | 0 | 37 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 0 | 57 | 0 | 0 | 57 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 0 | 43 | 0 | 0 | 43 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 9 | 1946 | 0 | 0 | 1955 | 2 | 211 | 0 | 0 | 213 | 3 | 19 | 0 | 0 | 22 | 1 |
| GRAND TOTAL | 9 | 1946 | 0 | 0 | 1955 | 2 | 211 | 0 | 0 | 213 | 3 | 19 | 0 | 0 | 22 | 1 |



Ontario Traffic Inc.
TRAFFIC MONITORING + SERVICES & PRODUCTS

Traffic Count Data

Intersection: CR 30 & Codrington Pit Access
Municipality: Codrington
Count Date: Aug 20, 2020

South Approach - CR 30

| Start Time | Cars | | | | | Trucks | | | | | Aggregate Trucks | | | | | Total Peds |
|------------|------|----|---|---|-------|--------|----|---|---|-------|------------------|---|---|---|-------|------------|
| | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | |
| 06:00 | 0 | 27 | 1 | 0 | 28 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06:15 | 0 | 35 | 0 | 0 | 35 | 0 | 8 | 1 | 0 | 9 | 0 | 2 | 0 | 0 | 2 | 0 |
| 06:30 | 0 | 45 | 2 | 0 | 47 | 0 | 3 | 0 | 0 | 3 | 0 | 1 | 5 | 0 | 6 | 0 |
| 06:45 | 0 | 44 | 0 | 0 | 44 | 0 | 11 | 0 | 0 | 11 | 0 | 4 | 2 | 0 | 6 | 0 |
| 07:00 | 1 | 34 | 0 | 0 | 35 | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 1 | 0 | 2 | 0 |
| 07:15 | 0 | 52 | 0 | 0 | 52 | 0 | 5 | 1 | 0 | 6 | 0 | 0 | 2 | 0 | 2 | 3 |
| 07:30 | 0 | 44 | 2 | 0 | 46 | 1 | 7 | 0 | 0 | 8 | 0 | 1 | 0 | 0 | 1 | 0 |
| 07:45 | 1 | 35 | 0 | 0 | 36 | 0 | 9 | 0 | 0 | 9 | 0 | 1 | 2 | 0 | 3 | 1 |
| 08:00 | 0 | 32 | 0 | 0 | 32 | 0 | 2 | 0 | 0 | 2 | 0 | 1 | 2 | 0 | 3 | 0 |
| 08:15 | 0 | 33 | 0 | 0 | 33 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:30 | 0 | 25 | 0 | 0 | 25 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 1 | 0 | 1 | 0 |
| 08:45 | 0 | 26 | 0 | 0 | 26 | 0 | 1 | 0 | 0 | 1 | 0 | 2 | 0 | 0 | 2 | 0 |
| 09:00 | 0 | 22 | 0 | 0 | 22 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 1 |
| 09:15 | 0 | 31 | 1 | 0 | 32 | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 1 | 0 | 2 | 0 |
| 09:30 | 0 | 38 | 1 | 0 | 39 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 2 | 0 | 2 | 0 |
| 09:45 | 0 | 30 | 0 | 0 | 30 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 4 | 0 | 4 | 0 |
| 10:00 | 1 | 33 | 0 | 0 | 34 | 0 | 3 | 0 | 0 | 3 | 0 | 4 | 2 | 0 | 6 | 0 |
| 10:15 | 0 | 53 | 1 | 0 | 54 | 0 | 5 | 0 | 0 | 5 | 0 | 1 | 4 | 0 | 5 | 0 |
| 10:30 | 0 | 52 | 0 | 0 | 52 | 0 | 4 | 0 | 0 | 4 | 0 | 3 | 3 | 0 | 6 | 0 |
| 10:45 | 0 | 51 | 0 | 0 | 51 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 1 | 0 | 2 | 0 |
| 11:00 | 0 | 64 | 0 | 0 | 64 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 2 | 0 |



Ontario Traffic Inc.
TRAFFIC MONITORING + SERVICES & PRODUCTS

Traffic Count Data

Intersection: CR 30 & Codrington Pit Access

Municipality: Codrington

Count Date: Aug 20, 2020

South Approach - CR 30

| Start Time | Cars | | | | | Trucks | | | | | Aggregate Trucks | | | | | Total Peds |
|------------|------|----|---|---|-------|--------|----|---|---|-------|------------------|---|---|---|-------|------------|
| | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | |
| 11:15 | 0 | 37 | 0 | 0 | 37 | 0 | 6 | 0 | 0 | 6 | 0 | 1 | 2 | 0 | 3 | 0 |
| 11:30 | 0 | 49 | 1 | 0 | 50 | 0 | 7 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 1 | 59 | 0 | 0 | 60 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 1 | 0 | 1 | 0 |
| 12:00 | 0 | 31 | 0 | 0 | 31 | 0 | 3 | 0 | 0 | 3 | 0 | 1 | 0 | 0 | 1 | 0 |
| 12:15 | 0 | 45 | 0 | 0 | 45 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 0 |
| 12:30 | 0 | 44 | 0 | 0 | 44 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:45 | 0 | 56 | 0 | 0 | 56 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 2 | 0 | 3 | 0 |
| 13:00 | 0 | 41 | 2 | 0 | 43 | 0 | 4 | 0 | 0 | 4 | 0 | 0 | 1 | 0 | 1 | 0 |
| 13:15 | 0 | 52 | 0 | 0 | 52 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 2 | 0 | 2 | 0 |
| 13:30 | 0 | 55 | 1 | 0 | 56 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:45 | 1 | 32 | 0 | 0 | 33 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 14:00 | 0 | 33 | 0 | 0 | 33 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 2 | 0 |
| 14:15 | 0 | 36 | 0 | 0 | 36 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 2 | 0 | 2 | 0 |
| 14:30 | 0 | 50 | 2 | 0 | 52 | 0 | 4 | 0 | 0 | 4 | 0 | 2 | 0 | 0 | 2 | 0 |
| 14:45 | 0 | 32 | 1 | 0 | 33 | 0 | 4 | 0 | 0 | 4 | 0 | 2 | 2 | 0 | 4 | 0 |
| 15:00 | 0 | 45 | 2 | 0 | 47 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:15 | 0 | 55 | 3 | 0 | 58 | 0 | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:30 | 0 | 44 | 0 | 0 | 44 | 0 | 10 | 0 | 0 | 10 | 0 | 1 | 2 | 0 | 3 | 0 |
| 15:45 | 0 | 51 | 2 | 0 | 53 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:00 | 0 | 41 | 0 | 0 | 41 | 0 | 4 | 0 | 0 | 4 | 0 | 2 | 1 | 0 | 3 | 0 |
| 16:15 | 0 | 33 | 0 | 0 | 33 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |



Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES & PRODUCTS

Traffic Count Data

Intersection: CR 30 & Codrington Pit Access
Municipality: Codrington
Count Date: Aug 20, 2020

South Approach - CR 30

| Start Time | Cars | | | | | Trucks | | | | | Aggregate Trucks | | | | | Total Peds |
|--------------------|------|------|----|---|-------|--------|-----|---|---|-------|------------------|----|----|---|-------|------------|
| | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | |
| 16:30 | 0 | 34 | 0 | 0 | 34 | 0 | 4 | 0 | 0 | 4 | 0 | 1 | 1 | 0 | 2 | 0 |
| 16:45 | 0 | 45 | 0 | 0 | 45 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:00 | 0 | 51 | 3 | 0 | 54 | 0 | 6 | 0 | 0 | 6 | 0 | 2 | 2 | 0 | 4 | 0 |
| 17:15 | 0 | 54 | 0 | 0 | 54 | 0 | 3 | 0 | 0 | 3 | 0 | 2 | 0 | 0 | 2 | 0 |
| 17:30 | 0 | 54 | 1 | 0 | 55 | 0 | 5 | 0 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17:45 | 0 | 54 | 0 | 0 | 54 | 0 | 11 | 0 | 0 | 11 | 0 | 1 | 0 | 0 | 1 | 0 |
| 18:00 | 0 | 57 | 0 | 0 | 57 | 0 | 12 | 0 | 0 | 12 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 0 | 56 | 0 | 0 | 56 | 0 | 5 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 2 | 0 |
| 18:30 | 0 | 53 | 0 | 0 | 53 | 0 | 7 | 1 | 0 | 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 0 | 61 | 0 | 0 | 61 | 0 | 3 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 5 | 2246 | 26 | 0 | 2277 | 1 | 259 | 4 | 0 | 264 | 0 | 41 | 56 | 0 | 97 | 6 |
| GRAND TOTAL | 5 | 2246 | 26 | 0 | 2277 | 1 | 259 | 4 | 0 | 264 | 0 | 41 | 56 | 0 | 97 | 6 |



Ontario Traffic Inc.
TRAFFIC MONITORING + SERVICES & PRODUCTS

Traffic Count Data

Intersection: CR 30 & Codrington Pit Access

Municipality: Codrington

Count Date: Aug 20, 2020

East Approach - Codrington Pit Access

| Start Time | Cars | | | | | Trucks | | | | | Aggregate Trucks | | | | | Total Peds |
|------------|------|---|---|---|-------|--------|---|---|---|-------|------------------|---|---|---|-------|------------|
| | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | |
| 06:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 06:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06:30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 06:45 | 2 | 1 | 0 | 0 | 3 | 3 | 0 | 0 | 0 | 3 | 2 | 0 | 1 | 0 | 3 | 0 |
| 07:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 1 | 0 | 3 | 10 |
| 07:15 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 |
| 07:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 07:45 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 2 | 0 |
| 08:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 08:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 08:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 |
| 08:45 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 09:00 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 09:30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 |
| 09:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 4 | 0 |
| 10:15 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 5 | 0 | 0 | 0 | 5 | 0 |
| 10:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 |
| 10:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 11:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 |



Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES & PRODUCTS

Traffic Count Data

Intersection: CR 30 & Codrington Pit Access

Municipality: Codrington

Count Date: Aug 20, 2020

East Approach - Codrington Pit Access

| Start Time | Cars | | | | | Trucks | | | | | Aggregate Trucks | | | | | Total Peds |
|------------|------|---|---|---|-------|--------|---|---|---|-------|------------------|---|---|---|-------|------------|
| | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | |
| 11:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 11:30 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 12:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 12:15 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 12:30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12:45 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 13:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 13:15 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 14:00 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 14:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 3 | 0 |
| 14:30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14:45 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:00 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 15:15 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 15:30 | 4 | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 15:45 | 3 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 16:00 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |



Ontario Traffic Inc.
TRAFFIC MONITORING + SERVICES & PRODUCTS

Traffic Count Data

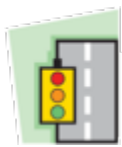
Intersection: CR 30 & Codrington Pit Access

Municipality: Codrington

Count Date: Aug 20, 2020

East Approach - Codrington Pit Access

| Start Time | Cars | | | | | Trucks | | | | | Aggregate Trucks | | | | | Total Peds |
|--------------------|------|---|---|---|-------|--------|---|---|---|-------|------------------|---|---|---|-------|------------|
| | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | ← | ↑ | → | ↻ | Total | |
| 16:30 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 17:00 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 1 |
| 17:15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 |
| 17:30 | 0 | 0 | 2 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 17:45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| 18:00 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:15 | 1 | 0 | 1 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:30 | 1 | 0 | 2 | 0 | 3 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18:45 | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| SUBTOTAL | 34 | 2 | 8 | 0 | 44 | 5 | 1 | 2 | 0 | 8 | 66 | 0 | 3 | 0 | 69 | 12 |
| GRAND TOTAL | 34 | 2 | 8 | 0 | 44 | 5 | 1 | 2 | 0 | 8 | 66 | 0 | 3 | 0 | 69 | 12 |



Peak Hour Diagram

Specified Period

From: 06:00:00
To: 10:00:00

One Hour Peak

From: 06:45:00
To: 07:45:00

Intersection: CR 30 & Codrington Pit Access
Site ID: 2012600001
Count Date: Aug 20, 2020

Weather conditions:

**** Unsignalized Intersection ****

Major Road: CR 30 runs N/S

North Approach

| | Out | In | Total |
|---------------|------------|------------|------------|
| 🚗 | 194 | 174 | 368 |
| T | 23 | 27 | 50 |
| AT | 5 | 8 | 13 |
| Totals | 222 | 209 | 431 |

CR 30

| | | | |
|---------------|------------|----------|----------|
| AT | 3 | 2 | 0 |
| T | 22 | 1 | 0 |
| 🚗 | 193 | 1 | 0 |
| Totals | 218 | 4 | 0 |



Peds: 0

Peds: 0



Peds: 10

Peds: 3

| | | | |
|---------------|------------|----------|----------|
| Totals | 207 | 8 | 0 |
| 🚗 | 174 | 2 | 0 |
| T | 27 | 1 | 0 |
| AT | 6 | 5 | 0 |

CR 30

East Approach

| | Out | In | Total |
|---------------|-----------|-----------|-----------|
| 🚗 | 5 | 3 | 8 |
| T | 3 | 2 | 5 |
| AT | 12 | 7 | 19 |
| Totals | 20 | 12 | 32 |

Codrington Pit Access

| Totals | 🚗 | T | AT |
|--------|---|---|----|
| 0 | 0 | 0 | 0 |
| 2 | 0 | 0 | 2 |
| 17 | 4 | 3 | 10 |

South Approach

| | Out | In | Total |
|---------------|------------|------------|------------|
| 🚗 | 177 | 197 | 374 |
| T | 29 | 25 | 54 |
| AT | 11 | 13 | 24 |
| Totals | 217 | 235 | 452 |

🚗 - Cars

T - Trucks

AT - Aggregate Trucks

Comments



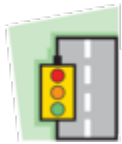
Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES & PRODUCTS

Peak Hour Summary

Intersection: CR 30 & Codrington Pit Access
Count Date: Aug 20, 2020
Period: 06:00 - 10:00

Peak Hour Data (06:45 - 07:45)

| Start Time | North Approach CR 30 | | | | | | South Approach CR 30 | | | | | | East Approach Codrington Pit Access | | | | | | West Approach | | | | | | Total Vehicles | |
|--------------------|-------------------------|-------------|---|----------|----------|-------------|-------------------------|-------------|-------------|----------|----------|-------------|--|---|------------|----------|-----------|-------------|---------------|---|---|---|----------|----------|-------------------|---|
| | ← | ↑ | → | ↻ | Peds | Total | ← | ↑ | → | ↻ | Peds | Total | ← | ↑ | → | ↻ | Peds | Total | ← | ↑ | → | ↻ | Peds | Total | | |
| 06:45 | 1 | 74 | | 0 | 0 | 75 | | 59 | 2 | 0 | 0 | 61 | 7 | | 1 | 0 | 0 | 8 | | | | | 0 | | 144 | |
| 07:00 | 0 | 38 | | 0 | 0 | 38 | | 39 | 1 | 0 | 0 | 40 | 2 | | 1 | 0 | 10 | 3 | | | | | 0 | | 81 | |
| 07:15 | 3 | 44 | | 0 | 0 | 47 | | 57 | 3 | 0 | 3 | 60 | 6 | | 0 | 0 | 0 | 6 | | | | | 0 | | 113 | |
| 07:30 | 0 | 62 | | 0 | 0 | 62 | | 52 | 2 | 0 | 0 | 54 | 2 | | 0 | 0 | 0 | 2 | | | | | 0 | | 118 | |
| Grand Total | 4 | 218 | | 0 | 0 | 222 | | 207 | 8 | 0 | 3 | 215 | 17 | | 2 | 0 | 10 | 19 | | | | | 0 | 0 | 456 | |
| Approach % | 1.8 | 98.2 | | 0 | - | - | | 96.3 | 3.7 | 0 | - | - | 89.5 | | 10.5 | 0 | - | - | | | | | | | - | - |
| Totals % | 0.9 | 47.8 | | 0 | | 48.7 | | 45.4 | 1.8 | 0 | | 47.1 | 3.7 | | 0.4 | 0 | | 4.2 | | | | | | | 0 | |
| PHF | 0.33 | 0.74 | | 0 | | 0.74 | | 0.88 | 0.67 | 0 | | 0.88 | 0.61 | | 0.5 | 0 | | 0.59 | | | | | 0 | | 0.79 | |
| Cars | 1 | 193 | | 0 | | 194 | | 174 | 2 | 0 | | 176 | 4 | | 0 | 0 | | 4 | | | | | 0 | | 374 | |
| % Cars | 25 | 88.5 | | 0 | | 87.4 | | 84.1 | 25 | 0 | | 81.9 | 23.5 | | 0 | 0 | | 21.1 | | | | | 0 | | 82 | |
| Trucks | 1 | 22 | | 0 | | 23 | | 27 | 1 | 0 | | 28 | 3 | | 0 | 0 | | 3 | | | | | 0 | | 54 | |
| % Trucks | 25 | 10.1 | | 0 | | 10.4 | | 13 | 12.5 | 0 | | 13 | 17.6 | | 0 | 0 | | 15.8 | | | | | 0 | | 11.8 | |
| Aggregate Trucks | 2 | 3 | | 0 | | 5 | | 6 | 5 | 0 | | 11 | 10 | | 2 | 0 | | 12 | | | | | 0 | | 28 | |
| % Aggregate Trucks | 50 | 1.4 | | 0 | | 2.3 | | 2.9 | 62.5 | 0 | | 5.1 | 58.8 | | 100 | 0 | | 63.2 | | | | | 0 | | 6.1 | |
| Peds | | | | | 0 | - | | | | | 3 | - | | | | | 10 | - | | | | | 0 | - | 13 | |
| % Peds | | | | | 0 | - | | | | | 23.1 | - | | | | | 76.9 | - | | | | | 0 | - | - | |



Peak Hour Diagram

Specified Period

From: 10:00:00
To: 14:00:00

One Hour Peak

From: 10:15:00
To: 11:15:00

Intersection: CR 30 & Codrington Pit Access
Site ID: 2012600001
Count Date: Aug 20, 2020

Weather conditions:

**** Unsignalized Intersection ****

Major Road: CR 30 runs N/S

North Approach

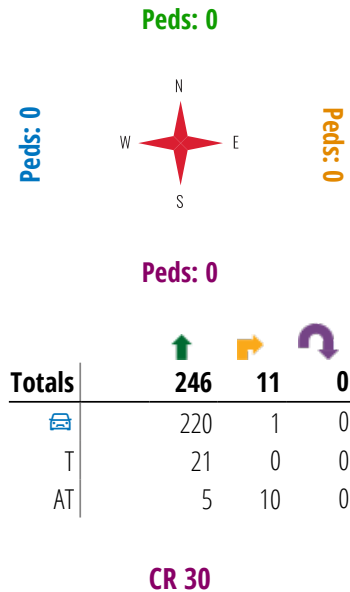
| | Out | In | Total |
|---------------|------------|------------|------------|
| 🚗 | 160 | 220 | 380 |
| T | 20 | 22 | 42 |
| AT | 2 | 5 | 7 |
| Totals | 182 | 247 | 429 |

CR 30

| | | | |
|---------------|------------|----------|----------|
| AT | 2 | 0 | 0 |
| T | 20 | 0 | 0 |
| 🚗 | 160 | 0 | 0 |
| Totals | 182 | 0 | 0 |

East Approach

| | Out | In | Total |
|---------------|-----------|-----------|-----------|
| 🚗 | 1 | 1 | 2 |
| T | 1 | 0 | 1 |
| AT | 12 | 10 | 22 |
| Totals | 14 | 11 | 25 |



Codrington Pit Access

| Totals | 🚗 | T | AT |
|--------|----|---|----|
| 🚗 | 0 | 0 | 0 |
| T | 1 | 0 | 1 |
| AT | 13 | 1 | 0 |

South Approach

| | Out | In | Total |
|---------------|------------|------------|------------|
| 🚗 | 221 | 161 | 382 |
| T | 21 | 20 | 41 |
| AT | 15 | 14 | 29 |
| Totals | 257 | 195 | 452 |

🚗 - Cars

T - Trucks

AT - Aggregate Trucks

Comments



Ontario Traffic Inc.
TRAFFIC MONITORING + SERVICES & PRODUCTS

Peak Hour Summary

Intersection: CR 30 & Codrington Pit Access
Count Date: Aug 20, 2020
Period: 10:00 - 14:00

Peak Hour Data (10:15 - 11:15)

| Start Time | North Approach CR 30 | | | | | | South Approach CR 30 | | | | | | East Approach Codrington Pit Access | | | | | | West Approach | | | | | | Total Vehicles |
|--------------------|-------------------------|-------------|---|----------|-------------|------------|-------------------------|-------------|-------------|----------|-------------|------------|--|---|-------------|----------|------------|-----------|---------------|---|---|----------|----------|-------------|-------------------|
| | ← | ↑ | → | ↻ | Peds | Total | ← | ↑ | → | ↻ | Peds | Total | ← | ↑ | → | ↻ | Peds | Total | ← | ↑ | → | ↻ | Peds | Total | |
| 10:15 | 0 | 54 | | 0 | 0 | 54 | | 59 | 5 | 0 | 0 | 64 | 6 | | 1 | 0 | 0 | 7 | | | | | 0 | | 125 |
| 10:30 | 0 | 53 | | 0 | 0 | 53 | | 59 | 3 | 0 | 0 | 62 | 3 | | 0 | 0 | 0 | 3 | | | | | 0 | | 118 |
| 10:45 | 0 | 30 | | 0 | 0 | 30 | | 58 | 1 | 0 | 0 | 59 | 1 | | 0 | 0 | 0 | 1 | | | | | 0 | | 90 |
| 11:00 | 0 | 45 | | 0 | 0 | 45 | | 70 | 2 | 0 | 0 | 72 | 3 | | 0 | 0 | 0 | 3 | | | | | 0 | | 120 |
| Grand Total | 0 | 182 | | 0 | 0 | 182 | | 246 | 11 | 0 | 0 | 257 | 13 | | 1 | 0 | 0 | 14 | | | | | 0 | 0 | 453 |
| Approach % | 0 | 100 | | 0 | - | - | | 95.7 | 4.3 | 0 | - | - | 92.9 | | 7.1 | 0 | - | - | | | | | 0 | - | - |
| Totals % | 0 | 40.2 | | 0 | 40.2 | | | 54.3 | 2.4 | 0 | 56.7 | | 2.9 | | 0.2 | 0 | 3.1 | | | | | 0 | | | |
| PHF | 0 | 0.84 | | 0 | 0.84 | | | 0.88 | 0.55 | 0 | 0.89 | | 0.54 | | 0.25 | 0 | 0.5 | | | | | 0 | | 0.91 | |
| Cars | 0 | 160 | | 0 | 160 | | | 220 | 1 | 0 | 221 | | 1 | | 0 | 0 | 1 | | | | | | 0 | | 382 |
| % Cars | 0 | 87.9 | | 0 | 87.9 | | | 89.4 | 9.1 | 0 | 86 | | 7.7 | | 0 | 0 | 7.1 | | | | | 0 | | 84.3 | |
| Trucks | 0 | 20 | | 0 | 20 | | | 21 | 0 | 0 | 21 | | 0 | | 1 | 0 | 1 | | | | | | 0 | | 42 |
| % Trucks | 0 | 11 | | 0 | 11 | | | 8.5 | 0 | 0 | 8.2 | | 0 | | 100 | 0 | 7.1 | | | | | 0 | | 9.3 | |
| Aggregate Trucks | 0 | 2 | | 0 | 2 | | | 5 | 10 | 0 | 15 | | 12 | | 0 | 0 | 12 | | | | | | 0 | | 29 |
| % Aggregate Trucks | 0 | 1.1 | | 0 | 1.1 | | | 2 | 90.9 | 0 | 5.8 | | 92.3 | | 0 | 0 | 85.7 | | | | | 0 | | 6.4 | |
| Peds | | | | | 0 | - | | | | | 0 | - | | | | | 0 | - | | | | | 0 | - | 0 |
| % Peds | | | | | 0 | - | | | | | 0 | - | | | | | 0 | - | | | | | 0 | - | |



Peak Hour Diagram

Specified Period

From: 14:00:00
To: 19:00:00

One Hour Peak

From: 17:15:00
To: 18:15:00

Intersection: CR 30 & Codrington Pit Access
Site ID: 2012600001
Count Date: Aug 20, 2020

Weather conditions:

**** Unsignalized Intersection ****

Major Road: CR 30 runs N/S

North Approach

| | Out | In | Total |
|---------------|------------|------------|------------|
| 🚗 | 182 | 221 | 403 |
| T | 22 | 31 | 53 |
| AT | 2 | 3 | 5 |
| Totals | 206 | 255 | 461 |

CR 30

| | | | |
|---------------|------------|----------|----------|
| AT | 2 | 0 | 0 |
| T | 22 | 0 | 0 |
| 🚗 | 181 | 1 | 0 |
| Totals | 205 | 1 | 0 |

East Approach

| | Out | In | Total |
|---------------|----------|----------|----------|
| 🚗 | 2 | 2 | 4 |
| T | 0 | 0 | 0 |
| AT | 4 | 0 | 4 |
| Totals | 6 | 2 | 8 |

Peds: 0

Peds: 0

Peds: 0

Peds: 0

| | | | |
|---------------|------------|----------|----------|
| Totals | 253 | 1 | 0 |
| 🚗 | 219 | 1 | 0 |
| T | 31 | 0 | 0 |
| AT | 3 | 0 | 0 |

CR 30

Codrington Pit Access

| Totals | 🚗 | T | AT |
|--------|---|---|----|
| 🔄 | 0 | 0 | 0 |
| 👤 | 2 | 2 | 0 |
| 👤 | 4 | 0 | 0 |
| 👤 | 0 | 0 | 4 |

South Approach

| | Out | In | Total |
|---------------|------------|------------|------------|
| 🚗 | 220 | 181 | 401 |
| T | 31 | 22 | 53 |
| AT | 3 | 6 | 9 |
| Totals | 254 | 209 | 463 |

🚗 - Cars

T - Trucks

AT - Aggregate Trucks

Comments



Ontario Traffic Inc.
TRAFFIC MONITORING SERVICES & PRODUCTS

Peak Hour Summary

Intersection: CR 30 & Codrington Pit Access
Count Date: Aug 20, 2020
Period: 14:00 - 19:00

Peak Hour Data (17:15 - 18:15)











| Start Time | North Approach CR 30 | | | | | | South Approach CR 30 | | | | | | East Approach Codrington Pit Access | | | | | | West Approach | | | | | | Total Vehicles | |
|--------------------|-------------------------|-------------|---|----------|----------|-------------|-------------------------|-------------|-------------|----------|----------|-------------|--|---|-------------|----------|----------|------------|---------------|---|---|---|----------|----------|-------------------|--|
| | ← | ↑ | → | ↻ | Peds | Total | ← | ↑ | → | ↻ | Peds | Total | ← | ↑ | → | ↻ | Peds | Total | ← | ↑ | → | ↻ | Peds | Total | | |
| 17:15 | 0 | 54 | | 0 | 0 | 54 | | 59 | 0 | 0 | 0 | 59 | 2 | | 0 | 0 | 0 | 2 | | | | | 0 | | 115 | |
| 17:30 | 1 | 62 | | 0 | 0 | 63 | | 59 | 1 | 0 | 0 | 60 | 1 | | 2 | 0 | 0 | 3 | | | | | 0 | | 126 | |
| 17:45 | 0 | 44 | | 0 | 0 | 44 | | 66 | 0 | 0 | 0 | 66 | 1 | | 0 | 0 | 0 | 1 | | | | | 0 | | 111 | |
| 18:00 | 0 | 45 | | 0 | 0 | 45 | | 69 | 0 | 0 | 0 | 69 | 0 | | 0 | 0 | 0 | 0 | | | | | 0 | | 114 | |
| Grand Total | 1 | 205 | | 0 | 0 | 206 | | 253 | 1 | 0 | 0 | 254 | 4 | | 2 | 0 | 0 | 6 | | | | | 0 | 0 | 466 | |
| Approach % | 0.5 | 99.5 | | 0 | - | - | | 99.6 | 0.4 | 0 | - | - | 66.7 | | 33.3 | 0 | - | - | | | | | | | - | |
| Totals % | 0.2 | 44 | | 0 | | 44.2 | | 54.3 | 0.2 | 0 | | 54.5 | 0.9 | | 0.4 | 0 | | 1.3 | | | | | | | 0 | |
| PHF | 0.25 | 0.83 | | 0 | | 0.82 | | 0.92 | 0.25 | 0 | | 0.92 | 0.5 | | 0.25 | 0 | | 0.5 | | | | | 0 | | 0.92 | |
| Cars | 1 | 181 | | 0 | | 182 | | 219 | 1 | 0 | | 220 | 0 | | 2 | 0 | | 2 | | | | | 0 | | 404 | |
| % Cars | 100 | 88.3 | | 0 | | 88.3 | | 86.6 | 100 | 0 | | 86.6 | 0 | | 100 | 0 | | 33.3 | | | | | 0 | | 86.7 | |
| Trucks | 0 | 22 | | 0 | | 22 | | 31 | 0 | 0 | | 31 | 0 | | 0 | 0 | | 0 | | | | | 0 | | 53 | |
| % Trucks | 0 | 10.7 | | 0 | | 10.7 | | 12.3 | 0 | 0 | | 12.2 | 0 | | 0 | 0 | | 0 | | | | | 0 | | 11.4 | |
| Aggregate Trucks | 0 | 2 | | 0 | | 2 | | 3 | 0 | 0 | | 3 | 4 | | 0 | 0 | | 4 | | | | | 0 | | 9 | |
| % Aggregate Trucks | 0 | 1 | | 0 | | 1 | | 1.2 | 0 | 0 | | 1.2 | 100 | | 0 | 0 | | 66.7 | | | | | 0 | | 1.9 | |
| Peds | | | | | 0 | - | | | | | | - | | | | | | - | | | | | 0 | | 0 | |
| % Peds | | | | | 0 | - | | | | | | - | | | | | | - | | | | | 0 | | - | |

APPENDIX B

Capacity Analysis











HCM Unsignalized Intersection Capacity Analysis
1: County Road 30

2020 Baseline Traffic Volumes (PCE)
AM Peak Hour

| |  |  |  |  |  |  |
|-----------------------------------|---|---|---|---|---|---|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations |  | |  |  | |  |
| Traffic Volume (veh/h) | 37 | 6 | 207 | 13 | 6 | 218 |
| Future Volume (Veh/h) | 37 | 6 | 207 | 13 | 6 | 218 |
| Sign Control | Stop | | Free | | Free | |
| Grade | 0% | | 0% | | 0% | |
| Peak Hour Factor | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 |
| Hourly flow rate (vph) | 40 | 6 | 223 | 14 | 6 | 234 |
| Pedestrians | | | | | | |
| Lane Width (m) | | | | | | |
| Walking Speed (m/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | | | | | |
| Median type | None | | | None | | |
| Median storage (veh) | | | | | | |
| Upstream signal (m) | | | | | | |
| pX, platoon unblocked | | | | | | |
| vC, conflicting volume | 469 | 223 | | | 237 | |
| vC1, stage 1 conf vol | | | | | | |
| vC2, stage 2 conf vol | | | | | | |
| vCu, unblocked vol | 469 | 223 | | | 237 | |
| tC, single (s) | 6.4 | 7.1 | | | 4.1 | |
| tC, 2 stage (s) | | | | | | |
| tF (s) | 3.5 | 4.1 | | | 2.2 | |
| p0 queue free % | 93 | 99 | | | 100 | |
| cM capacity (veh/h) | 554 | 642 | | | 1342 | |
| Direction, Lane # | WB 1 | NB 1 | NB 2 | SB 1 | | |
| Volume Total | 46 | 223 | 14 | 240 | | |
| Volume Left | 40 | 0 | 0 | 6 | | |
| Volume Right | 6 | 0 | 14 | 0 | | |
| cSH | 564 | 1700 | 1700 | 1342 | | |
| Volume to Capacity | 0.08 | 0.13 | 0.01 | 0.00 | | |
| Queue Length 95th (m) | 2.0 | 0.0 | 0.0 | 0.1 | | |
| Control Delay (s) | 11.9 | 0.0 | 0.0 | 0.2 | | |
| Lane LOS | B | | | A | | |
| Approach Delay (s) | 11.9 | 0.0 | | | 0.2 | |
| Approach LOS | B | | | | | |
| Intersection Summary | | | | | | |
| Average Delay | | | 1.2 | | | |
| Intersection Capacity Utilization | | | 26.3% | | ICU Level of Service | A |
| Analysis Period (min) | | | 15 | | | |

HCM Unsignalized Intersection Capacity Analysis
1: County Road 30

2020 Baseline Traffic Volumes (PCE)
PM Peak Hour

| |  |  |  |  |  |  |
|-----------------------------------|---|---|---|---|---|---|
| Movement | WBL | WBR | NBT | NBR | SBL | SBT |
| Lane Configurations |  | |  |  | |  |
| Traffic Volume (veh/h) | 36 | 2 | 253 | 21 | 1 | 205 |
| Future Volume (Veh/h) | 36 | 2 | 253 | 21 | 1 | 205 |
| Sign Control | Stop | | Free | | | Free |
| Grade | 0% | | 0% | | | 0% |
| Peak Hour Factor | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 |
| Hourly flow rate (vph) | 40 | 2 | 284 | 24 | 1 | 230 |
| Pedestrians | | | | | | |
| Lane Width (m) | | | | | | |
| Walking Speed (m/s) | | | | | | |
| Percent Blockage | | | | | | |
| Right turn flare (veh) | | | | | | |
| Median type | | | None | | | None |
| Median storage (veh) | | | | | | |
| Upstream signal (m) | | | | | | |
| pX, platoon unblocked | | | | | | |
| vC, conflicting volume | 516 | 284 | | | 308 | |
| vC1, stage 1 conf vol | | | | | | |
| vC2, stage 2 conf vol | | | | | | |
| vCu, unblocked vol | 516 | 284 | | | 308 | |
| tC, single (s) | 7.4 | 6.2 | | | 4.1 | |
| tC, 2 stage (s) | | | | | | |
| tF (s) | 4.4 | 3.3 | | | 2.2 | |
| p0 queue free % | 90 | 100 | | | 100 | |
| cM capacity (veh/h) | 382 | 760 | | | 1264 | |
| Direction, Lane # | WB 1 | NB 1 | NB 2 | SB 1 | | |
| Volume Total | 42 | 284 | 24 | 231 | | |
| Volume Left | 40 | 0 | 0 | 1 | | |
| Volume Right | 2 | 0 | 24 | 0 | | |
| cSH | 391 | 1700 | 1700 | 1264 | | |
| Volume to Capacity | 0.11 | 0.17 | 0.01 | 0.00 | | |
| Queue Length 95th (m) | 2.7 | 0.0 | 0.0 | 0.0 | | |
| Control Delay (s) | 15.3 | 0.0 | 0.0 | 0.0 | | |
| Lane LOS | C | | | A | | |
| Approach Delay (s) | 15.3 | 0.0 | | 0.0 | | |
| Approach LOS | C | | | | | |
| Intersection Summary | | | | | | |
| Average Delay | | | 1.1 | | | |
| Intersection Capacity Utilization | | | 23.3% | | ICU Level of Service | A |
| Analysis Period (min) | | | 15 | | | |