

8th Annual Traffic and Safety Review

Codrington Pit

Northumberland County

July 30, 2025 — Project # 17169 Votorantim Cimentos (CBM Aggregates)



EXECUTIVE SUMMARY

This study represents the eighth (8th) Annual Traffic and Safety Review of the now-operating Codrington Pit and its site access to County Road 30.

This report concludes:

- 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 little growth in traffic along this section of roadway since the last annual traffic and safety review (or even over the last 16 years).
- Intersection analyses indicate 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 collisions related to pit operations (including aggregate trucks) in the study
 area since the opening of the Pit access. There was no current collision data for review in
 the study area from Northumberland County.
- TYLin finds the Codrington Pit access is operating as intended, and given the available information, provides an acceptable degree of efficiency and safety.

It is TYLin's opinion that there is no further need to conduct annual studies or at a minimum reduce the frequency of the study to every second or third year. This would be based on our historic findings that there have been no incidents that necessitates indefinite / ongoing study of this entrance, the impact on traffic has been minimal, the traffic growth in the area has been less than predicted, and the as-constructed design elements continue to exceed the operational requirements of the pit-related traffic volumes.



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1 INTRODUCTION

1.1 Retainer and Objective

T.Y. Lin International Canada Inc. (TYLin) was retained by Votorantim Cimentos (CBM Aggregates) to prepare an eighth 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 County Road No. 27 and Old Wooler Road, as illustrated on **Figure 1-1.**

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Figure 1-1 Site Location

This review has been prepared to ensure the Codrington Pit entrance at County Road 30 is 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. Mary's [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. Mary's".

The enclosed report is the eighth annual examination following the opening of the Pit in 2016 and builds on the first, second, third, fourth, fifth, sixth, and seventh annual traffic and safety reviews completed between 2017 and 2023 by TYLin (formerly known as 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 (2025) traffic volume 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 assumed 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 2025 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 seven prior annual traffic and safety reviews.

In the p.m., volumes along County Road 30 have increased by about 43% (when compared to 2007 traffic volumes), while the a.m. peak hour flows have decreased over the last 18 years (when compared to 2007 traffic volumes), by 1.8% as shown in **Table 2-1**.



Table 2-1 Two-way Traffic Volumes 2007 - 2025

Year	AM Two-way Traffic	PM Two-way Traffic
2007	507	446
2018	436	470
2019	464	532
2020	425	458
2021	385	552
2022	408	532
2023	505	499
2025	498	610

The original traffic study forecasted growth on County Road 30 at the rate of 2% <u>per year</u> (equating to a compounded 18-year growth of 36%), 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.

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 Horizon Data Services Ltd. on June 10, 2025 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**.



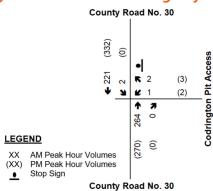


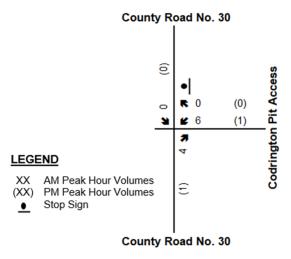
Figure 2-1 2025 Existing Adjacent Street Traffic Volumes

2.3.2 Peak Truck Activity

The peak hour of truck traffic entering and exiting from the site access was extracted from the June 2025 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.

In the a.m. peak period, no passenger vehicles were recorded turning right into the site access. For aggregate truck trips, there was a total of 3 trips, with 3 trucks turning northbound right, and no truck turning southbound left into the site access. During the p.m. peak there are 4 trucks that go into the site access from the northbound right as shown in **Figure 2-2**.

Figure 2-2 2025 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 2025 traffic data, the counts indicate minimal truck traffic to and from the north which can



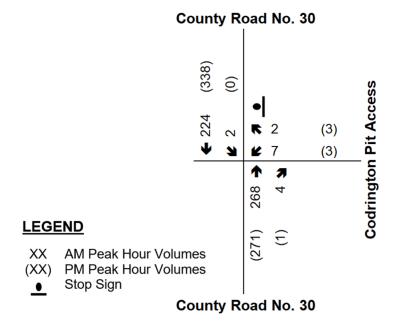
be attributed to some local delivery of material to destinations north of the site (seen in the midday peak counts in **Appendix A**). As per the 2007 Traffic Study, we have been advised that the predominant market for the movement of aggregate material would be to the south along County Road No. 30 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 2025 were 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 'worst case' scenario of busiest combined corridor activity.

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

Figure 2-3 2025 Baseline Traffic Volumes



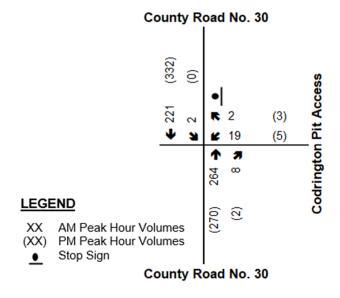


3 CAPACITY ANALYSIS

3.1 Baseline 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 2023 truck traffic volumes expressed as PCEs are shown in **Figure 3-1**.

Figure 3-1 2025 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 11 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); 95th Seco	Percentile Queue; Delay in onds
	AM Peak Hour	PM Peak Hour
Baseline 2025	WBLR: 0.02 (B); 1 veh; 13 s SBLT: 0.00 (A); 0 veh; 0 s	WBLR: 0.01 (B); 0 veh; 13 s SBLT: 0.00 (-); 0 veh; 0 s

Under 2025 baseline conditions, the intersection of County Road 30 and the Codrington Pit Access is operating with excellent operational characteristics and 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' during weekday a.m. and p.m. peak hours. 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.

3.2 Eight-year Traffic Analysis Summary

The results of the capacity analyses from the previous seven annual safety reviews are presented in **Table 3-2**.



Table 3-2 Capacity Summary 2017-2025

						Move	ment					
			WB	LR					SE	BLT		
Year	AM	Peak H	lour	PIV	l Peak	Hour	AN	l Peak	Hour	PM	1 Peak	Hour
	v/c	LOS	Delay (s)									
Baseline 2017	0.06	В	14	0.09	В	15	0.00	А	1	0.02	А	1
Baseline 2018	0.06	В	14	0.07	В	15	0.02	А	1	0.02	А	1
Baseline 2019	0.05	В	12	0.08	С	16	0.00	А	1	0.00	А	0
Baseline 2020	0.08	В	12	0.11	С	12	0.00	А	1	0.00	А	0
Baseline 2021	0.14	В	12	0.26	С	20	0.00	-	0	0.00	-	0
Baseline 2022	0.03	В	12	0.03	В	13	0.00	А	0	0.00	1	0
Baseline 2023	0.04	В	13	0.11	С	16	0.00	А	0	0.00	-	0
Baseline 2025	0.02	В	12	0.01	В	13	0.00	А	0	0.00	-	0

Under the baseline 2025 existing conditions, the study intersection is operating well within capacity and acceptable delays during both the a.m. and p.m. peak hours. Similarly the movements have operated similarly for the historical data since 2017 indicating no operational issues and have reserve capacities at all movements. The v/c ratio has decreased for all the westbound left-right movement in the a.m. and p.m. between 2023 and 2025, and although the delay has increased for the westbound movement in the p.m. peak hour, the values indicate that there is still reserve capacity for the movement during both peak hours. It would be reasonable to assume that there is low cause for concern for road network impacts related to pit operations.



4 INCIDENT REPORTS

4.1 Collision Reports

TYLin have consulted with the County of Northumberland, the agency responsible for collision reports near the site. At the time of the report, TYLin have not received any information regarding the updated collision data within the study area (September 2021 to July 24, 2025).

4.2 CBM-Reported Incidents

Since the last Safety Review, no incidents were reported along the truck haul route to CBM for the past year. As such no incidents have been reported since October 10, 2020.

4.3 Eight-Year Collision and Incident Summary

The number of collisions and incidents reported by CBM within the vicinity of the pit over the past seven years are shown below in **Table 4-1**.

Table 4-1	Collision and	Incident S	Summary	2017 -	2025
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Year	Number of	f Collisions		BM Reported lents
rear	Pit-Related	Non-Pit- Related	Pit-Related	Non-Pit- Related
2017	0	0	1	0
2018	0	0	1	0
2019	0	0	1	1
2020	0	1	0	0
2021	0	3	1	0
2022	-	1	0	0
2023	-	-	0	0
2025	-	-	0	0

A review of the past eight years shows that the number of pit-related collisions, which have been reported, have consistently remained zero. Additionally, the number of pit-related incidents has been one or fewer per year since 2017. Overall, the pit has had an excellent road safety record, and it would be reasonable to assume that these safety trends will continue in future years as the pit operates.



5 CONCLUSION

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.

County Road 30 passing traffic was also observed to be less than forecasted in the original traffic study and there has been little growth in traffic along this section of roadway since the last annual traffic and safety review.

The Pit access turn lanes constructed to accommodate the future condition are still more than adequate to handle present day peaks. They continue to exceed the operational requirements of the Pit-related traffic volumes, as all movements operate at LOS B or better for 2025. The traffic volume in the area has also been very stable over the course of previous study years.

TYLin have consulted with the County of Northumberland, the agency responsible for collision reports near the site. At the time of the report, TYLin have not received any information regarding the updated collision data within the study area (September 2021 to July 2025).

CBM staff confirmed they have not received any traffic related complaints over the past year involving pit-related vehicles.

TYLin finds the Codrington Pit access is operating as intended, and given the available information, provides an acceptable degree of efficiency and safety.



6 RECOMMENDATION

TYLin recommends concluding the practice of safety reviews for Codrington Pit as the site has historically and currently demonstrated low traffic impact, recorded no pit-related collisions, and received minimal incident complaints relating to the pit operations, over the past eight safety reviews.

It is TYLin's opinion that there is no further need to conduct annual studies or at a minimum reduce the frequency of the study to every second or third year. This would be based on our historic findings that there have been no incidents that necessitates indefinite / ongoing study of this entrance, the impact on traffic has been minimal, the traffic growth in the area has been less than predicted, and the as-constructed design elements continue to exceed the operational requirements of the pit-related traffic volumes.



APPENDIX A

Traffic Data

(416) 840-6619

Your Traffic Count Specialist

File Name: CR 30 at Codrington Pit Driveway

Site Code : 00000000 Start Date : 2025-06-10

Page No : 1

Groups Printed- Cars - Heavies - Aggregate - Cyclists

										<u>ars - Heav</u>	ies - Aggi	egate - C									
			CR 30					gton Pit					CR 30								
		F	rom Nor	th			F	rom Eas	st			F	rom Sou	ıth			F	rom We	st		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
06:00 AM	0	42	2	0	44	0	0	0	0	0	0	29	0	0	29	0	0	0	0	0	73
06:15 AM	0	46	2	0	48	0	0	0	0	0	3	36	0	0	39	0	0	0	0	0	87
06:30 AM	0	39	0	0	39	0	0	0	0	0	1	53	0	0	54	0	0	0	0	0	93
06:45 AM	0	38	1_	0	39	0	0	0	0	0	1	48	0	0	49	0	0	0	0	0	88
Total	0	165	5	0	170	0	0	0	0	0	5	166	0	0	171	0	0	0	0	0	341
07:00 AM	0	55	1	0	56	0	0	0	0	0	2	48	0	0	50	0	0	0	0	0	106
07:15 AM	0	57	1	0	58	2	0	4	0	6	0	62	0	0	62	0	0	0	0	0	126
07:30 AM	0	74	1	0	75	0	0	1	0	1	0	65	0	0	65	0	0	0	0	0	141
07:45 AM	0	54	0	0	54	0	0	0	0	0	2	75	0	0	77	0	0	0	0	0	131
Total	0	240	3	0	243	2	0	5	0	7	4	250	0	0	254	0	0	0	0	0	504
08:00 AM	о	39	0	0	39	0	0	2	0	2	2	2 75 0 0 7 4 250 0 0 25 2 66 0 0 6		68	0	0	0	0	0	109	
08:15 AM	0	44	0	0	44	0	0	0	0	0	0	63	0	0	63	0	0	0	0	0	107
08:30 AM	0	54	1	0	55	0	0	2	0	2	2	56	0	0	58	0	0	0	0	0	115
08:45 AM	0	61	0	0	61	0	0	1	0	1	0	57	0	0	57	0	0	0	0	0	119
Total	0	198	1	0	199	0	0	5	0	5	4	242	0	0	246	0	0	0	0	0	450
09:00 AM	0	34	0	0	34	0	0	1	0	1	2	46	0	0	48	0	0	0	0	0	83
09:15 AM	0	58	0	0	58	0	0	0	0	0	0	47	0	0	47	0	0	0	0	0	105
09:30 AM	0	44	0	0	44	0	0	2	0	2	4	45	0	0	49	0	0	0	0	0	95
09:45 AM	0	39	0	0	39	0	0	1	0	1	0	37	0	0	37	0	0	0	0	0	77
Total	0	175	0	0	175	0	0	4	0	4	6	175	0	0	181	0	0	0	0	0	360
10:00 AM	0	35	0	1	36	0	0	1	0	1	0	44	0	0	44	0	0	0	0	0	81
10:15 AM	0	45	0	0	45	0	0	2	0	2	3	46	0	0	49	0	0	0	0	0	96
10:30 AM	0	37	0	0	37	0	0	1	0	1	0	50	0	0	50	0	0	0	0	0	88
10:45 AM	0	40	1	0	41	0	0	0	0	0	0	52	0	0	52	0	0	0	0	0	93
Total	0	157	1	1	159	0	0	4	0	4	3	192	0	0	195	0	0	0	0	0	358
11:00 AM	0	40	1	0	41	1	0	0	0	1	1	47	0	0	48	0	0	0	0	0	90
11:15 AM	0	51	0	0	51	0	0	2	0	2	2	45	0	0	47	0	0	0	0	0	100
11:30 AM	0	54	0	0	54	0	0	1	0	1	0	42	0	0	42	0	0	0	0	0	97
11:45 AM	0	39	1	0	40	0	0	1	0	1	0	44	0	0	44	0	0	0	0	0	85
Total	0	184	2	0	186	1	0	4	0	5	3	178	0	0	181	0	0	0	0	0	372

(416) 840-6619

Your Traffic Count Specialist

File Name: CR 30 at Codrington Pit Driveway

Site Code : 00000000 Start Date : 2025-06-10

Page No : 2

Groups Printed- Cars - Heavies - Aggregate - Cyclists

			CR 30						Access	ais - neavi	ics Aggi	cgate t	CR 30								
		F	rom Nor	th				rom Ea				F	rom Sou	ıth			F	rom Wes	st		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
12:00 PM	0	41	0	0	41	0	0	0	0	0	3	55	0	0	58	0	0	0	0	0	99
12:15 PM	0	47	0	0	47	0	0	0	0	0	2	41	0	0	43	0	0	0	0	0	90
12:30 PM	0	44	0	0	44	3	0	6	0	9	0	51	0	0	51	0	0	0	0	0	104
12:45 PM	0	56	2	0	58	0	0	0	0	0	0	41	0	0	41	0	0	0	0	0	99
Total	0	188	2	0	190	3	0	6	0	9	5	188	0	0	193	0	0	0	0	0	392
01:00 PM	0	40	0	0	40	2	0	0	0	2	3	51	0	0	54	0	0	0	0	0	96
01:15 PM	0	41	1	0	42	1	0	2	0	3	1	53	0	0	54	0	0	0	0	0	99
01:30 PM	0	48	0	0	48	0	0	1	0	1	0	47	0	0	47	0	0	0	0	0	96
01:45 PM	0	52	0	0	52	0	0	2	0	2	0	42	0	0	42	0	0	0	0	0	96
Total	0	181	1	0	182	3	0	5	0	8	4	193	0	0	197	0	0	0	0	0	387
02:00 PM	0	49	0	0	49	0	0	0	0	0	1	43	0	0	44	0	0	0	0	0	93
02:15 PM	0	46	0	0	46	0	0	0	0	0	1	1 43 0 0 1 60 0 0 0 54 0 0		61	0	0	0	0	0	107	
02:30 PM	0	66	0	0	66	0	0	1	0	1	0	1 60 0 0 0 54 0 0 0 69 0 0		54	0	0	0	0	0	121	
02:45 PM	0	49	0	0	49	1_	0	1_	0	2	0				69	0	0	0	0	0	120
Total	0	210	0	0	210	1	0	2	0	3	2	226	0	0	228	0	0	0	0	0	441
03:00 PM	0	71	0	0	71	0	0	0	0	0	0	64	0	0	64	0	0	0	0	0	135
03:15 PM	0	69	0	0	69	0	0	0	0	0	2	65	0	0	67	0	0	0	0	0	136
03:30 PM	0	61	0	0	61	1	0	0	0	1	1	60	0	0	61	0	0	0	0	0	123
03:45 PM	0	69	0	0	69	0	0	2	0	2	0	63	0	0	63	0	0	0	0	0	134
Total	0	270	0	0	270	1	0	2	0	3	3	252	0	0	255	0	0	0	0	0	528
04:00 PM	0	94	0	0	94	0	0	0	0	0	1	64	0	0	65	0	0	0	0	0	159
04:15 PM	0	82	0	0	82	0	0	1	0	1	0	66	0	0	66	0	0	0	0	0	149
04:30 PM	0	80	0	0	80	1	0	1	0	2	0	77	0	0	77	0	0	0	0	0	159
04:45 PM	0	82	0	0	82	2	0	1	0	3	0	64	0	0	64	0	0	0	0	0	149
Total	0	338	0	0	338	3	0	3	0	6	1	271	0	0	272	0	0	0	0	0	616
05:00 PM	0	67	0	0	67	0	0	0	0	0	0	75	0	0	75	0	0	0	0	0	142
05:15 PM	0	79	0	0	79	0	0	0	0	0	0	69	0	0	69	0	0	0	0	0	148
05:30 PM	0	60	0	0	60	0	0	0	0	0	0	55	0	0	55	0	0	0	0	0	115
05:45 PM	0	59	0	0	59	0	0	0	0	0	0	55	0	0	55	0	0	0	0	0	114
Total	0	265	0	0	265	0	0	0	0	0	0	254	0	0	254	0	0	0	0	0	519
06:00 PM	0	42	0	0	42	0	0	0	0	0	0	42	0	0	42	0	0	0	0	0	84
06:15 PM	0	42	0	0	42	0	0	0	0	0	0	44	0	0	44	0	0	0	0	0	86

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File Name: CR 30 at Codrington Pit Driveway

Site Code : 00000000 Start Date : 2025-06-10

Page No : 3

Groups Printed- Cars - Heavies - Aggregate - Cyclists

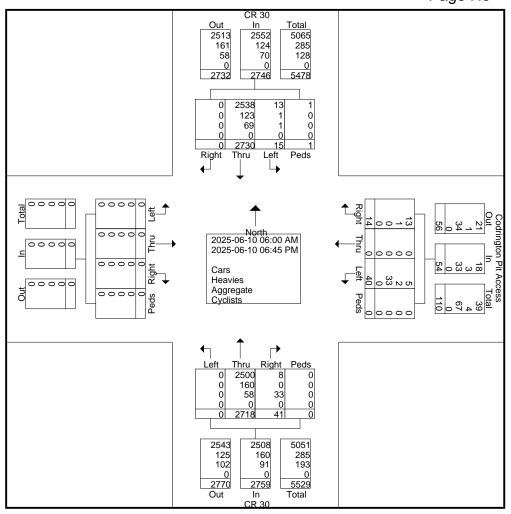
								iloups F	iiiilea- C	ais - neav	ies - Ayy	regate -	Cyclisis								,
			CR 30				Codrir	ngton Pit	Access				CR 30								
		F	rom Nor	th				From Ea	st			F	rom Sou	uth			F	rom We	st		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
06:30 PM	0	41	0	0	41	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	59
06:45 PM	0	34	0	0	34	0	0	0	0	0	1	27	0	0	28	0	0	0	0	0	62
Total	0	159	0	0	159	0	0	0	0	0	1	131	0	0	132	0	0	0	0	0	291
Grand Total	0	2730	15	1	2746	14	0	40	0	54	41	2718	0	0	2759	0	0	0	0	0	5559
Apprch %	0	99.4	0.5	0		25.9	0	74.1	0		1.5	98.5	0	0		0	0	0	0		
Total %	0	49.1	0.3	0	49.4	0.3	0	0.7	0	1	0.7	48.9	0	0	49.6	0	0	0	0	0	
Cars	0	2538	13	1	2552	13	0	5	0	18	8	2500	0	0	2508	0	0	0	0	0	5078
% Cars	0	93	86.7	100	92.9	92.9	0	12.5	0	33.3	19.5	92	0	0	90.9	0	0	0	0	0	91.3
Heavies	0	123	1	0	124	1	0	2	0	3	0	160	0	0	160	0	0	0	0	0	287
% Heavies	0	4.5	6.7	0	4.5	7.1	0	5	0	5.6	0	5.9	0	0	5.8	0	0	0	0	0	5.2
Aggregate	0	69	1	0	70	0	0	33	0	33	33	58	0	0	91	0	0	0	0	0	194
% Aggregate		2.5	6.7	0	2.5	0	0	82.5	0	61.1	80.5	2.1	0	0	3.3	0	0	0	0	0	3.5
Cyclists	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Cyclists	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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File Name: CR 30 at Codrington Pit Driveway

Site Code : 00000000 Start Date : 2025-06-10



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Site Code : 00000000 Start Date : 2025-06-10

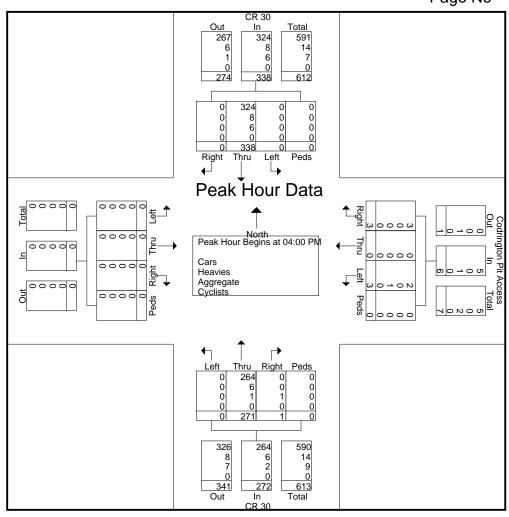
			CR 30	4h				ngton Pit From Eas				_	CR 30	ı 4 b				rom We	o t		
			rom Nor	tn			!	From Eas	St				rom Sou	ıtn				rom vve	St		
Start Time	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Int. Total
Peak Hour Analys	is From 0	6:00 AM	to 06:45	PM - Pe	eak 1 of 1	•		•		,		•	•		•			•	•		
Peak Hour for Ent	ire Interse	ection Be	gins at 0	4:00 PM																	
04:00 PM	0	94	0	0	94	0	0	0	0	0	1	64	0	0	65	0	0	0	0	0	159
04:15 PM	0	82	0	0	82	0	0	1	0	1	0	66	0	0	66	0	0	0	0	0	149
04:30 PM	0	80	0	0	80	1	0	1	0	2	0	77	0	0	77	0	0	0	0	0	159
04:45 PM	0	82	0	0	82	2	0	1_	0	3	0	64	0	0	64	0	0	0	0	0	149
Total Volume	0	338	0	0	338	3	0	3	0	6	1	271	0	0	272	0	0	0	0	0	616
% App. Total	0	100	0	0		50	0	50	0		0.4	99.6	0	0		0	0	0	0		
PHF	.000	.899	.000	.000	.899	.375	.000	.750	.000	.500	.250	.880	.000	.000	.883	.000	.000	.000	.000	.000	.969
Cars	0	324	0	0	324	3	0	2	0	5	0	264	0	0	264	0	0	0	0	0	593
% Cars	0	95.9	0	0	95.9	100	0	66.7	0	83.3	0	97.4	0	0	97.1	0	0	0	0	0	96.3
Heavies	0	8	0	0	8	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	14
% Heavies	0	2.4	0	0	2.4	0	0	0	0	0	0	2.2	0	0	2.2	0	0	0	0	0	2.3
Aggregate	0	6	0	0	6	0	0	1	0	1	1	1	0	0	2	0	0	0	0	0	9
% Aggregate	0	1.8	0	0	1.8	0	0	33.3	0	16.7	100	0.4	0	0	0.7	0	0	0	0	0	1.5
Cyclists	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% Cyclists	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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File Name: CR 30 at Codrington Pit Driveway

Site Code : 00000000 Start Date : 2025-06-10

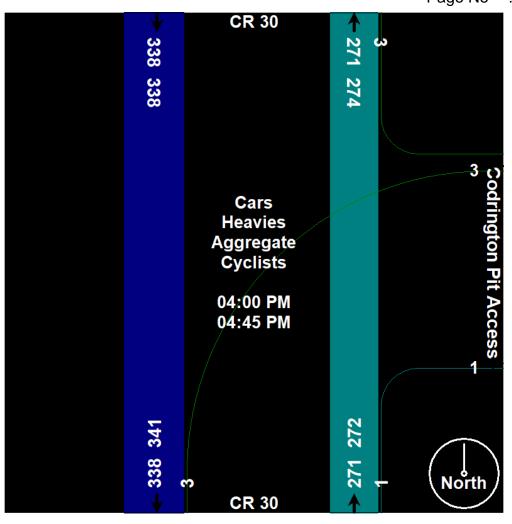


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File Name: CR 30 at Codrington Pit Driveway

Site Code : 00000000 Start Date : 2025-06-10



APPENDIX B

Capacity Analysis



	•	•	1	~	\	ļ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	W		^	7		र्स
Traffic Volume (veh/h)	7	2	268	4	2	224
Future Volume (Veh/h)	7	2	268	4	2	224
Sign Control	Stop		Free			Free
Grade	0%		0%			0%
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90
Hourly flow rate (vph)	8	2	298	4	2	249
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	551	298			302	
vC1, stage 1 conf vol						
vC2, stage 2 conf vol						
vCu, unblocked vol	551	298			302	
tC, single (s)	6.4	7.1			4.1	
tC, 2 stage (s)						
tF(s)	3.5	4.1			2.2	
p0 queue free %	98	100			100	
cM capacity (veh/h)	498	577			1270	
Direction, Lane #	WB 1	NB 1	NB 2	SB 1		
Volume Total	10	298	4	251		
Volume Left	8	0	0	2		
Volume Right	2	0	4	0		
cSH	512	1700	1700	1270		
Volume to Capacity	0.02	0.18	0.00	0.00		
Queue Length 95th (m)	0.02	0.0	0.0	0.0		
Control Delay (s)	12.2	0.0	0.0	0.0		
Lane LOS	12.2 B	0.0	0.0	Α		
Approach Delay (s)	12.2	0.0		0.1		
Approach LOS	12.2 B	0.0		0.1		
•						
Intersection Summary						
Average Delay			0.3			
Intersection Capacity Utilizat	tion		24.1%	IC	U Level c	of Service
Analysis Period (min)			15			

	•	•	†	/	\	Ţ
Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations	₩.	WDIX	ND1	TION.	ODL	-
Traffic Volume (veh/h)	3	3	271	1	0	338
Future Volume (Veh/h)	3	3	271	1	0	338
Sign Control	Stop		Free	'	U	Free
Grade	0%		0%			0%
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97
Hourly flow rate (vph)	3	3	279	1	0.57	348
Pedestrians	U		210	'	U	0-10
Lane Width (m)						
Walking Speed (m/s)						
Percent Blockage						
Right turn flare (veh)						
Median type			None			None
Median storage veh)			140116			140116
Upstream signal (m)						
pX, platoon unblocked						
vC, conflicting volume	627	279			280	
vC1, stage 1 conf vol	OZI	215			200	
vC2, stage 2 conf vol						
vCu, unblocked vol	627	279			280	
tC, single (s)	7.4	6.2			4.1	
tC, 2 stage (s)	7.7	0.2			7.1	
tF (s)	4.4	3.3			2.2	
p0 queue free %	99	100			100	
cM capacity (veh/h)	323	765			1294	
					1204	
Direction, Lane #	WB 1	NB 1	NB 2	SB 1		
Volume Total	6	279	1	348		
Volume Left	3	0	0	0		
Volume Right	3	0	1	0		
cSH	454	1700	1700	1294		
Volume to Capacity	0.01	0.16	0.00	0.00		
Queue Length 95th (m)	0.3	0.0	0.0	0.0		
Control Delay (s)	13.0	0.0	0.0	0.0		
Lane LOS	В					
Approach Delay (s)	13.0	0.0		0.0		
Approach LOS	В					
Intersection Summary						
Average Delay			0.1			
Intersection Capacity Utilizat	tion		27.8%	IC	U Level c	f Service
Analysis Period (min)			15			