

# Helmcken Road @ Knockan Drive

Wednesday, October 16, 2019



The data presented here is for information purposes only and should not be considered authoritative for construction, geotechnical, engineering, navigational, legal, or other site-specific uses. The information shared is owned by the Transportation Division of the Engineering Department at the District of Saanich. Accuracy is not guaranteed.

**Major Route:** Helmcken Road  
**Minor Route:** Knockan Drive  
**Municipality:** Saanich  
**Filename:** Helmcken Rd @ Knockan Dr-Oct 16, 2019.xlsx  
**Location #:** TIN001363  
**Count ID:** 2019041  
**Date:** October 16, 2019  
**Day-of-week:** Wednesday

**East/West Route:** Knockan Drive  
**Intersection Type:** 3-leg east approach  
**Signalized?:** No  
**Weather:** Rain and wet

**Vehicle Classifications:** Vehicles and Peds  
 Bikes

**This data is for Vehicles and Peds**

Shift	Start	End	Duration
AM	7:30	9:30	2.00
MD			
PM	15:30	18:30	3.00
<b>Total</b>	<b>7:30</b>	<b>18:30</b>	<b>5.00</b>

**Notes:** 24-hour clock used for reporting (15-minute increments)  
 North Approach - southbound vehicles approaching intersection from the north  
 15x4 - 15 min volume (from maximum 15 minute period of movement/approach in peak hour period [\*]) x 4  
 Pedestrians - N indicates pedestrians crossing north approach (east/west)

**Comments:**



AM Peak Period  
Vehicles and Peds

**Helmcken Road @ Knockan Drive**  
**Wednesday, October 16, 2019**

Time Period Begins	Helmcken Rd NORTH Approach				Helmcken Rd SOUTH Approach				WEST Approach				EAST Approach				Total Volume		Ped	Crosswalks				Conflict	
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E	15 min	Hr
	7:30	2	141		143		160	2	162					4		2	6	311			+	0	0		2
7:45	0	142		142		143	4	147					4		1	5	294		*	0	0		0	151	
8:00	0	137		137		152	4	156					8		0	8	301		*	0	0		3	164	
8:15	0	122		122		136	12	148					3		0	3	273	1179	*	0	0		0	151	634
8:30	1	130		131		101	23	124					6		0	6	261	1129		0	0		0	136	602
8:45	3	142		145		103	17	120					2		0	2	267	1102		0	1		0	144	595
9:00	1	156		157		117	15	132					9		5	14	303	1104		0	1		0	165	596
9:15	3	146		149		138	4	142					7		1	8	299	1130		0	0		0	153	598
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																									
n/a																									
n/a																									
n/a																									
n/a																									
n/a																									

Total	10	1116		1126		1050	81	1131					43		9	52	2309			0	2		5		1184
Avg Hr	5	558		563		525	41	566					22		5	26	1155			0	1		3		

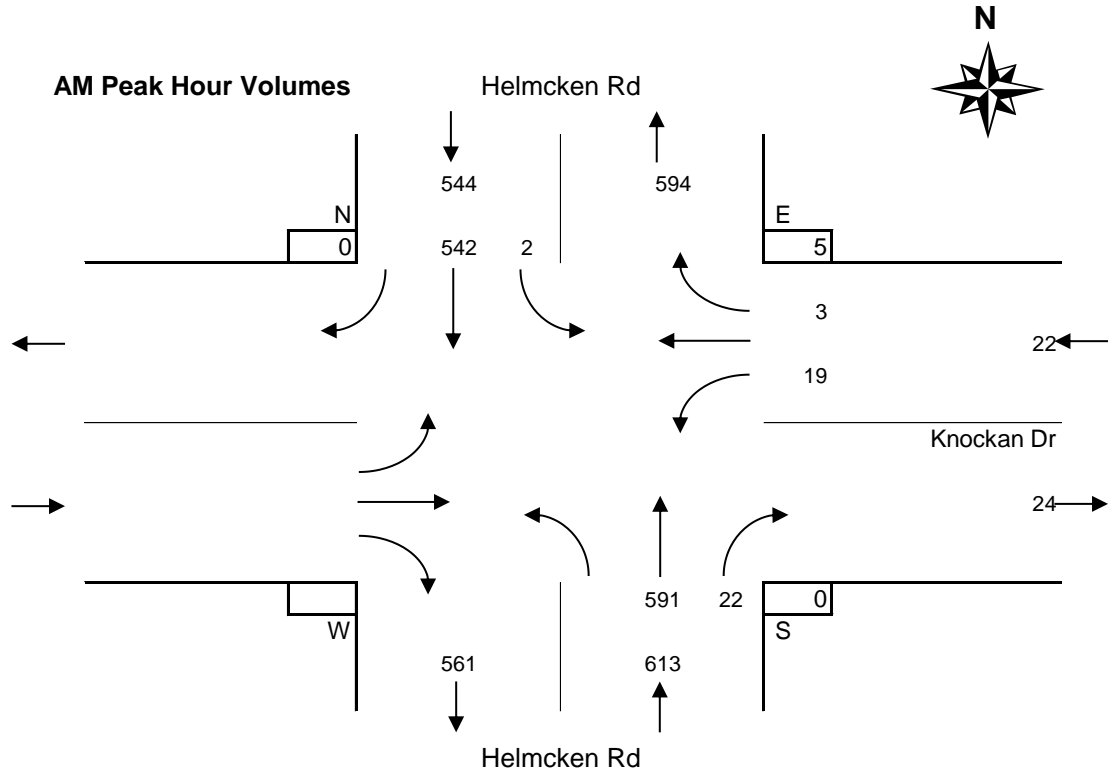
**Peak hour of the intersection**

Pk Hr	2	542		544		591	22	613					19		3	22	1179	*		0	0		5		634
15x4	8	568		572		640	48	648					32		8	32	1244	+		0	0		12		728
PHF	0.25	0.95		0.95		0.92	0.46	0.95					0.59		0.38	0.69	0.95			n/a	n/a		0.42		0.87

**Peak hour of conflicting volumes for the intersection**

Pk Hr	2	542		544		591	22	613					19		3	22	1179	*		0	0		5		634
15x4	8	568		572		640	48	648					32		8	32	1244	+		0	0		12		728
PHF	0.25	0.95		0.95		0.92	0.46	0.95					0.59		0.38	0.69	0.95			n/a	n/a		0.42		0.87

\*\* Calculated peak hour occurs during the first or last hour of shift and therefore may be invalid. \*\*



Time Period Begins	Helmcken Rd NORTH Approach				Helmcken Rd SOUTH Approach				WEST Approach				Knockan Dr EAST Approach				Total Volume		Ped	Crosswalks				Conflict	
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E	15 min	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																									

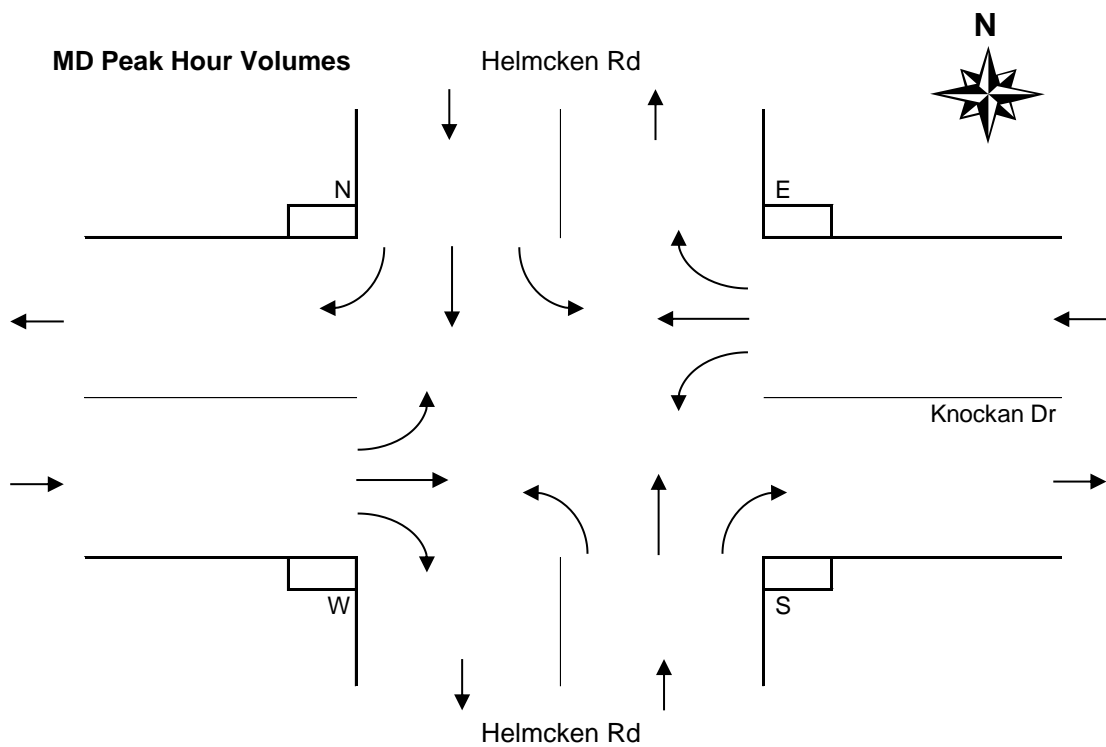
Total																									
Avg Hr																									

**Peak hour of the intersection**

Pk Hr																									
15x4																									
PHF																									

**Peak hour of conflicting volumes for the intersection**

Pk Hr																									
15x4																									
PHF																									



Time Period Begins	Helmcken Rd NORTH Approach				Helmcken Rd SOUTH Approach				WEST Approach				EAST Approach				Total Volume		Veh/ Ped	Crosswalks				Conflict	
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E	15 min	Hr
	15:30	2	122		124	129	7	136					1		1	2	262			0	1		0	139	
15:45	2	87		89	128	3	131					6		1	7	227		0	0		0	139			
16:00	0	108		108	116	7	123					3		2	5	236		0	7		1	126			
16:15	1	109		110	136	5	141					1		0	1	252	977	0	0		0	143	547		
16:30	2	102		104	126	7	133					1		1	2	239	954	0	1		0	136	544		
16:45	4	101		105	134	5	139					4		3	7	251	978*	0	0		1	147	552		
17:00	5	91		96	133	4	137					5		1	6	239	981*	0	1		0	147	573		
17:15	0	118		118	136	6	142					1		3	4	264	993+	0	0		1	145	575		
17:30	2	106		108	138	6	144					0		2	2	254	1008*	0	0		0	148	587		
17:45	2	87		89	101	3	104					0		5	5	198	955	0	0		1	111	551		
18:00	1	141		142	100	3	103					3		3	6	251	967	0	0		0	144	548		
18:15	3	166		169	93	8	101					4		4	8	278	981	0	0		0	170	573		
n/a																									
n/a																									
n/a																									
n/a																									
n/a																									
n/a																									
n/a																									
n/a																									

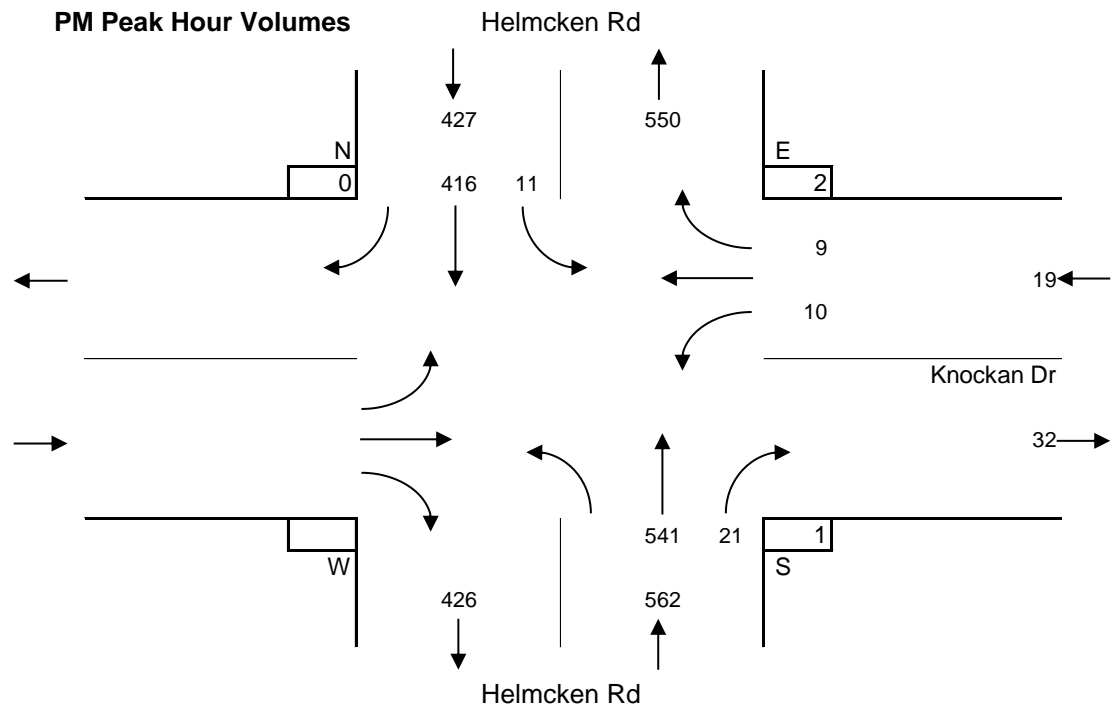
<b>Total</b>	24	1338		1362	1470	64	1534					29		26	55	2951		0	10		4	1587
<b>Avg Hr</b>	8	446		454	490	21	511					10		9	18	984		0	3		1	

**Peak hour of the intersection**

<b>Pk Hr</b>	11	416		427	541	21	562					10		9	19	1008*		0	1		2	583
<b>15x4</b>	20	472		472	552	24	576					20		12	28	1056+		0	4		4	616
<b>PHF</b>	0.55	0.88		0.90	0.98	0.88	0.98					0.50		0.75	0.68	0.95		n/a	0.25		0.50	0.95

**Peak hour of conflicting volumes for the intersection**

<b>Pk Hr</b>	11	416		427	541	21	562					10		9	19	1008*		0	1		2	583
<b>15x4</b>	20	472		472	552	24	576					20		12	28	1056+		0	4		4	616
<b>PHF</b>	0.55	0.88		0.90	0.98	0.88	0.98					0.50		0.75	0.68	0.95		n/a	0.25		0.50	0.95



Entire Survey Period

5 Hours

	Helmcken Rd				Helmcken Rd				WEST Approach				Knockan Dr				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach								EAST Approach					N S W E			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total		N	S	W	E
Total	34	2454		2488		2520	145	2665					72		35	107	5260	0	12		9
Avg Hr	7	491		498		504	29	533					14		7	21	1052	0	2		2

AM Peak Period

2 Hours

	Helmcken Rd				Helmcken Rd				WEST Approach				Knockan Dr				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach								EAST Approach					N S W E			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total		N	S	W	E
Totals	10	1116		1126		1050	81	1131					43		9	52	2309	0	2		5
Avg Hr	5	558		563		525	41	566					22		5	26	1155	0	1		3

MD Peak Period

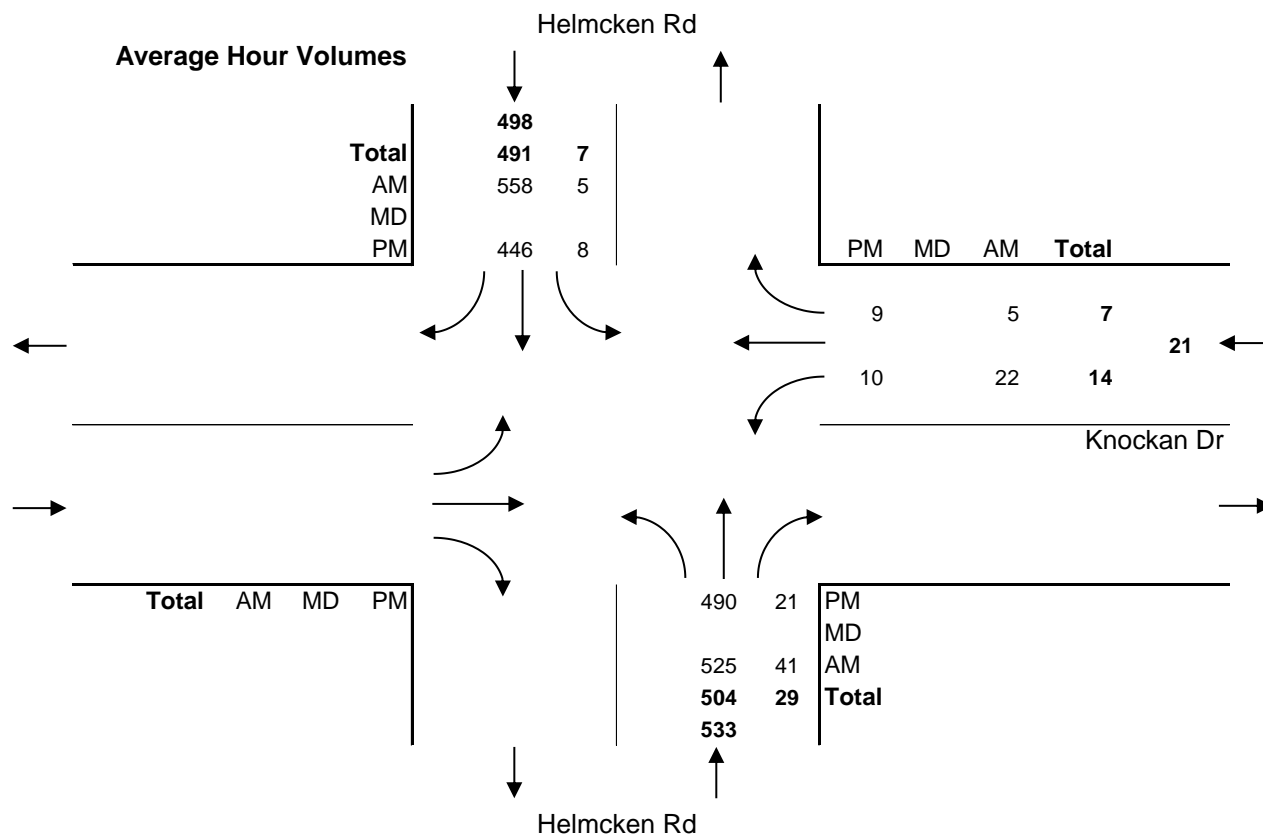
Hours

	Helmcken Rd				Helmcken Rd				WEST Approach				Knockan Dr				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach								EAST Approach					N S W E			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total		N	S	W	E
Totals																					
Total																					
Avg Hr																					

PM Peak Period

3 Hours

	Helmcken Rd				Helmcken Rd				WEST Approach				Knockan Dr				Total Volume	Crosswalks			
	NORTH Approach				SOUTH Approach								EAST Approach					N S W E			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total		N	S	W	E
Totals	24	1338		1362		1470	64	1534					29		26	55	2951	0	10		4
Avg Hr	8	446		454		490	21	511					10		9	18	984	0	3		1



**Major Route:** Helmcken Road  
**Minor Route:** Knockan Drive  
**Municipality:** Saanich  
**Filename:** Helmcken Rd @ Knockan Dr-Oct 16, 2019.xlsx  
**Location #:** TIN001363  
**Count ID:** 2019041  
**Date:** October 16, 2019  
**Day-of-week:** Wednesday

**East/West Route:** Knockan Drive  
**Intersection Type:** 4-leg  
**Signalized?:** No  
**Weather:** Rain and wet

**Vehicle Classifications:** Vehicles and Peds  
 Bikes

**This data is for Bikes**

Shift	Start	End	Duration
AM	7:30	9:30	2.00
MD			
PM	15:30	18:30	3.00
<b>Total</b>	<b>7:30</b>	<b>18:30</b>	<b>5.00</b>

**Notes:** 24-hour clock used for reporting (15-minute increments)  
 North Approach - southbound vehicles approaching intersection from the north  
 15x4 - 15 min volume (from maximum 15 minute period of movement/approach in peak hour period [\*]) x 4  
 Pedestrians - N indicates pedestrians crossing north approach (east/west)

**Comments:**



**Survey Data**  
Bikes

**Helmcken Road @ Knockan Drive**  
Wednesday, October 16, 2019

Time Period Begins	Helmcken Rd NORTH Approach				Helmcken Rd SOUTH Approach				WEST Approach				Knockan Dr EAST Approach				Total Volume		Speed				
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E
7:30	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	*	0	0	0	0	
7:45	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	*	0	0	0	0	
8:00	0	1	0	1	0	2	0	2	0	0	0	0	0	0	0	0	3	*	0	0	0	0	
8:15	0	1	0	1	0	4	0	4	0	0	0	0	0	0	0	0	5	10+	0	0	0	0	
8:30	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	10	0	0	0	0	
8:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	
9:00	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	7	0	0	0	0	
9:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	
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																							
Total	0	3	0	3	0	9	0	9	0	0	0	0	0	0	0	0	12		0	0	0	0	

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																						
Total																						

15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0
15:45	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1		0	0	0	0
16:00	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1		0	0	0	0
16:15	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	2	4*	0	0	0	0
16:30	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	1	5*	0	0	0	0	
16:45	0	2	0	2	0	1	1	2	0	0	0	0	0	0	0	4	8+	0	0	0	0	
17:00	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	2	9*	0	0	0	0	
17:15	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	2	9	0	0	0	0	
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
n/a																						
n/a																						
n/a																						
n/a																						
n/a																						
n/a																						
n/a																						
n/a																						
Total	0	6	0	6	0	5	1	6	0	0	0	0	1	0	0	1	13		0	0	0	0



Time Period Begins	Helmcken Rd NORTH Approach				Helmcken Rd SOUTH Approach				WEST Approach				EAST Approach				Total Volume		Day of Week	Conflict				
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour		N	S	W	E	15 min
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																								

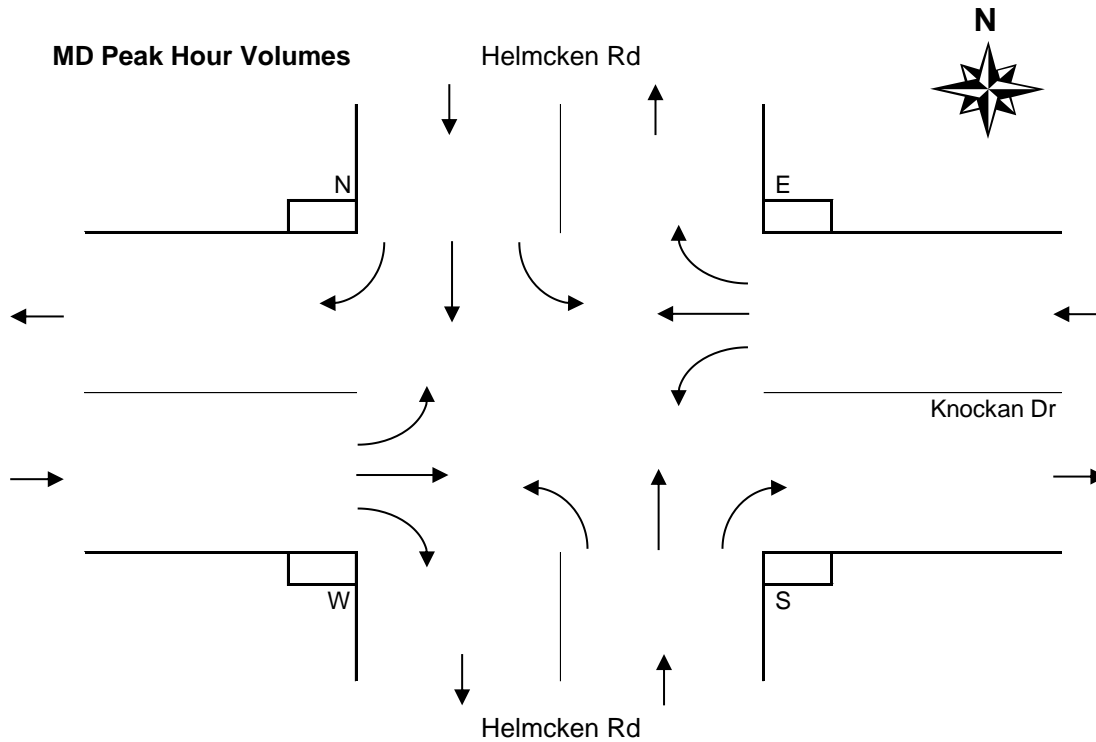
Total																								
Avg Hr																								

**Peak hour of the intersection**

Pk Hr																								
15x4																								
PHF																								

**Peak hour of conflicting volumes for the intersection**

Pk Hr																								
15x4																								
PHF																								



**PM Peak Period**  
**Bikes**

**Helmcken Road @ Knockan Drive**  
**Wednesday, October 16, 2019**

Time Period Begins	Helmcken Rd NORTH Approach				Helmcken Rd SOUTH Approach				WEST Approach				EAST Approach				Total Volume		Conflict	Conflict				
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	15-min	Hour						
																				N	S	W	E	15 min
15:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	
15:45	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1		0	0	0	0	1	
16:00	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1		0	0	0	0	1	
16:15	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	2	4*	0	0	0	0	2	4
16:30	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1	5*	0	0	0	0	1	5
16:45	0	2	0	2	0	1	1	2	0	0	0	0	0	0	0	0	4	8+	0	0	0	0	2	6
17:00	0	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	9*	0	0	0	0	2	7
17:15	0	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	2	9	0	0	0	0	1	6
17:30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0	0	0	0	0	5
17:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	3
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	1
18:15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
n/a																								
n/a																								
n/a																								
n/a																								
n/a																								
n/a																								
n/a																								
n/a																								
n/a																								

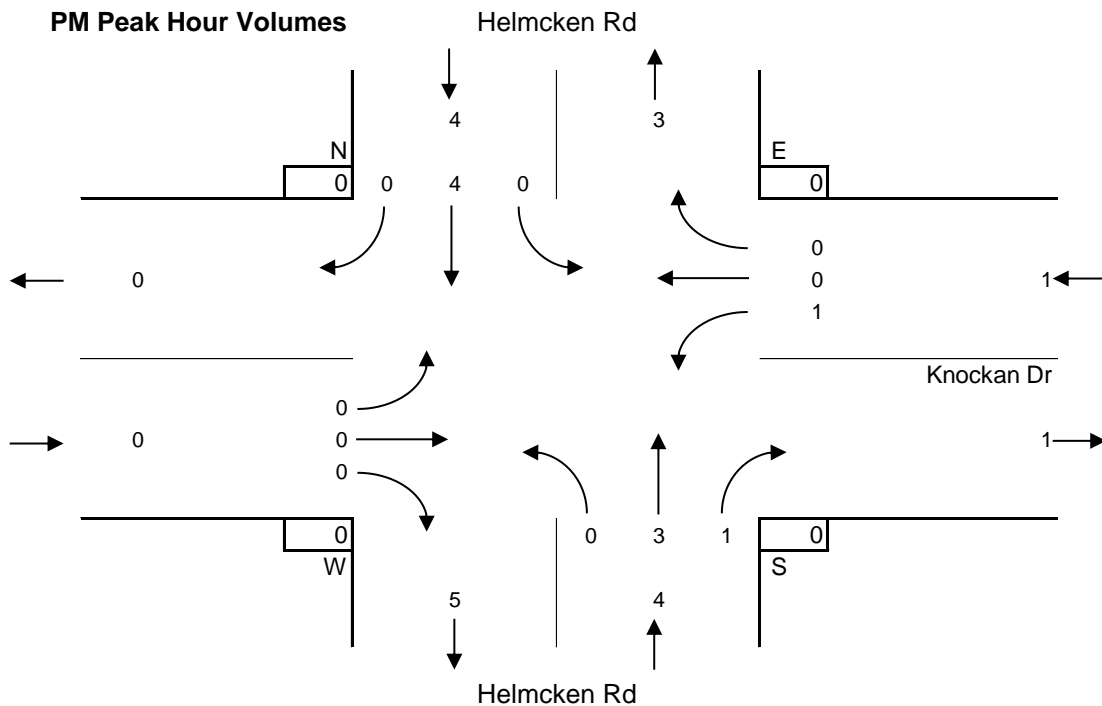
<b>Total</b>	0	6	0	6	0	5	1	6	0	0	0	0	1	0	0	1	13		0	0	0	0	7
<b>Avg Hr</b>	0	2	0	2	0	2	0	2	0	0	0	0	0	0	0	0	4		0	0	0	0	

**Peak hour of the intersection**

<b>Pk Hr</b>	0	4	0	4	0	3	1	4	0	0	0	0	1	0	0	1	9*		0	0	0	0	5
<b>15x4</b>	0	8	0	8	0	4	4	8	0	0	0	0	4	0	0	4	16+		0	0	0	0	12
<b>PHF</b>	n/a	0.50	n/a	0.50	n/a	0.75	0.25	0.50	n/a	n/a	n/a	n/a	0.25	n/a	n/a	0.25	0.56		n/a	n/a	n/a	n/a	0.42

**Peak hour of conflicting volumes for the intersection**

<b>Pk Hr</b>	0	4	0	4	0	3	1	4	0	0	0	0	1	0	0	1	9*		0	0	0	0	5
<b>15x4</b>	0	8	0	8	0	4	4	8	0	0	0	0	4	0	0	4	16+		0	0	0	0	12
<b>PHF</b>	n/a	0.50	n/a	0.50	n/a	0.75	0.25	0.50	n/a	n/a	n/a	n/a	0.25	n/a	n/a	0.25	0.56		n/a	n/a	n/a	n/a	0.42



Entire Survey Period

5 Hours

	Helmcken Rd				Helmcken Rd				WEST Approach				Knockan Dr				Total Volume				
	NORTH Approach				SOUTH Approach								EAST Approach					N S W E			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Total	0	9	0	9	0	14	1	15	0	0	0	0	1	0	0	1	25	0	0	0	0
Avg Hr	0	2	0	2	0	3	0	3	0	0	0	0	0	0	0	0	5	0	0	0	0

AM Peak Period

2 Hours

	Helmcken Rd				Helmcken Rd				WEST Approach				Knockan Dr				Total Volume				
	NORTH Approach				SOUTH Approach								EAST Approach					N S W E			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Totals	0	3	0	3	0	9	0	9	0	0	0	0	0	0	0	0	12	0	0	0	0
Avg Hr	0	2	0	2	0	5	0	5	0	0	0	0	0	0	0	0	6	0	0	0	0

MD Peak Period

Hours

	Helmcken Rd				Helmcken Rd				WEST Approach				Knockan Dr				Total Volume				
	NORTH Approach				SOUTH Approach								EAST Approach					N S W E			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Totals																					
Total																					
Avg Hr																					

PM Peak Period

3 Hours

	Helmcken Rd				Helmcken Rd				WEST Approach				Knockan Dr				Total Volume				
	NORTH Approach				SOUTH Approach								EAST Approach					N S W E			
	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total	Left	Thru	Right	Total					
Totals	0	6	0	6	0	5	1	6	0	0	0	0	1	0	0	1	13	0	0	0	0
Avg Hr	0	2	0	2	0	2	0	2	0	0	0	0	0	0	0	0	4	0	0	0	0

