Laura Bowman

From: official information
Sent: Friday, 9 July 2021 10:56 am
To: [redacted]
Cc: official information
Subject: RESPONSE - LGOIMA 21202 - [redacted] - Crosby Road Safety Improvement Project
Attachments: Appendix 1 - SP_Crosby Rd - 360m - 1 Dec 18 - Class.PDF; Appendix 2 - SP_Crosby Rd - 360m - 1 Dec 18 - Weekly.PDF; Appendix 3 - SP_Crosby Rd - 360m - 1 Dec 18 - Speed.PDF; Appendix 4- Vehicle Classification System.PDF

Kia Ora,

I refer to your **information request below**, Hamilton City Council is able to provide the following response.

Request (1)
"4,000 vehicles exceed the 50kph speed limit on Crosby Road weekly" implies that a traffic count was conducted. What was the number of vehicles?

Response (1)
A traffic count was conducted from 0:00 Saturday 24 November 2018 to 0:00 Saturday 1 December 2018, with a total of 26,038 vehicles counted. Results of the survey are available in Appendix 1 to 4.

Request (1a)
What is the number of cyclists using Crosby Road, at any given time (daily, weekly or monthly)?

Response (1a)
Hamilton City Council has used data from a third-party company, Strava, previously to assist in understanding cycling behaviour on Crosby Road and other Hamilton streets. This information is unavailable for public use under Strava's terms of use.

Hamilton City Councill will be conducting a survey of pedestrian and cyclist usage on Crosby Road and Snell Drive from 26 July 2021 to 1 August 2021. This information will be publicly available.

Request (2)
How many injury accidents have occurred on Crosby Road?

Response (2)
Hamilton City Council is only able to use information available using the Crash Analysis System (CAS) which is managed by the New Zealand Police. Table 1 below shows all reported crashes from 1 January 2010 to 31 December 2020 for crashes on Crosby Road.

Table 1 - Crashes on Crosby Road

Crosby Rd Calendar Year	Fatal Crash	Serious Crash	Minor Crash	Non-Injury Crash	Grand Total
2010					0
2011				2	2
2012		1		1	2
2013				2	2
2014				1	1
2015					0
2016			1	1	2

2017			1	2	3
2018			1	1	2
2019				2	2
2020				2	2
Grand Total	**0**	**1**	**3**	**14**	**18**

What is the cost of the Crosby Road Safety Improvements?

Response (3)
The project is currently projected to cost $1.2m and this cost is broadly similar for all options. The designs are currently at concept stage. Concept plans may change once community engagement is completed. The cost for the project will be established once more detailed work on a preferred option has been completed.

Request (4)
What is the result of the Cost Benefit Analysis (BCR)?

Response (4)
A BCR calculation has not been produced specifically for Crosby Road as it forms part of the Eastern Pathways (School Links) programme of work. The wider network aims to provide safe links for 19 schools, businesses, commercial activities and 13,000 households. The project has a projected BCR range of 2.1 to 2.7.

Request (5)
Does the business case support the funding application to Waka Kotahi NZ Transport Agency for the future investigation, consultation, design and construction phases of the project?

Response (5)
The project does not require a business case as it has a value of less than $2 million and does not trigger the requirements for a Waka Kotahi NZ Transport Agency business case.

Request (6)
What were the cost(s) of engagement (venues, publications, advertising etc.) and any other ancillary activity or material?

Response (6)
Marketing and Engagement costs to date have been $7,766.75. This excludes staff time.

If you have any concerns with the decision referred to in this response, you have the right to request an investigation and review by the Ombudsman under section 27(3) of the Local Government Official Information and Meetings Act 1987.

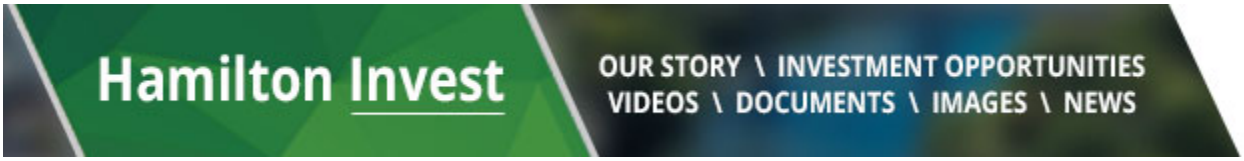
Information about how to make a complaint is available at www.ombudsman.parliament.nz or freephone 0800 802 602.

Kind Regards,

Tatiyana | Official Information & Legal Support Advisor
Legal Services & Risk | People and Organisational Performance
Email: officialinformation@hcc.govt.nz

Hamilton City Council
Te kaunihera o Kirikiriroa

Hamilton City Council | **Private Bag 3010** | **Hamilton 3240** | **www.hamilton.govt.nz**
Like us on Facebook Follow us on Twitter



-----Original Message-----
From: [redacted]
Sent: Sunday, 20 June 2021 1:06 PM
To: "info@hcc.govt.nz" <info@hcc.govt.nz>
Subject: Crosby Road Safety Improvement Project

https://ourhamilton.co.nz/on-the-move/options-to-improve-safety-on-crosby-road/

"4,000 vehicles exceed the 50kph speed limit on Crosby Road weekly" implies that a traffic count was conducted.
What was the number of vehicles?
What is the number of cyclists using Crosby Road, at any given time (daily, weekly or monthly)?

How many injury accidents have occurred on Crosby Road?

What is the cost of the Crosby Road Safety Improvements?

What is the result of the Cost Benefit Analysis (BCR)?

Does the business case support the funding application to Waka Kotahi NZ Transport Agency for the future investigation, consultation, design and construction phases of the project?

What were the cost(s) of engagement (venues, publications, advertising etc.) and any other ancillary activity or material?

Kind regards

[redacted]

WSP Opus Traffic Surveys & Analysis
Class Speed Matrix

Datasets:

Site: **[HCC-P-0226-360] Crosby Rd (Btn Winstone & Sussex) <50kph> 360m**
Direction: 8 - East bound A>B, West bound B>A. **Lane:** 0
Survey Duration: 14:29 Friday, 23 November 2018 => 9:54 Monday, 3 December 2018
File: HCC-P-0226-36003Dec2018.EC0 (Plus)
Identifier: T8011VGK MC56-L5 [MC55] (c)Microcom 19Oct04
Algorithm: Factory default (v3.21 - 15322)
Data type: Axle sensors - Paired (Class/Speed/Count)
Filter time: **0:00 Saturday, 24 November 2018 => 0:00 Saturday, 1 December 2018**
Direction: East, West (bound)

Speed (km/h)	Class 1	2	3	4	5	6	7	8	9	10	11	12	13	Speed Totals	
10 - 20	27	.	8	.	.	.	1	.	.	.	.	.	.	36	0.1%
20 - 30	149	2	5	.	.	1	2	.	.	.	.	1	.	160	0.6%
30 - 40	361	7	25	.	1	1	2	1	.	.	.	.	.	398	1.5%
40 - 50	3726	45	138	10	1	1	12	.	.	.	.	3	1	3937	15.1%
50 - 60	14334	118	343	16	7	4	4	.	.	.	.	6	.	14832	57.0%
60 - 70	5670	34	164	2	4	1	1	.	.	.	.	.	.	5876	22.6%
70 - 80	657	2	29	.	1	.	.	.	.	.	.	.	.	689	2.6%
80 - 90	83	.	2	.	.	.	.	.	.	.	.	.	.	85	0.3%
90 - 100	13	.	.	.	.	.	.	.	.	.	.	.	.	13	0.0%
100 - 110	7	.	.	.	.	.	.	.	.	.	.	.	.	7	0.0%
110 - 120	2	.	.	.	.	.	.	.	.	.	.	.	.	2	0.0%
120 - 130	2	.	.	.	.	.	.	.	.	.	.	.	.	2	0.0%
130 - 140	.	.	1	.	.	.	.	.	.	.	.	.	.	1	0.0%
140 - 150	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0.0%
150 - 160	.	.	.	.	.	.	.	.	.	.	.	.	.	0	0.0%
Class Totals	25031	208	715	28	14	8	22	1	0	0	0	10	1	26038	
	96.1%	0.8%	2.7%	0.1%	0.1%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		

WSP Opus Traffic Surveys & Analysis
Weekly Vehicle Counts (Virtual Week)

Datasets:

Site: **[HCC-P-0226-360] Crosby Rd (Btn Winstone & Sussex) <50kph> 360m**
Direction: 8 - East bound A>B, West bound B>A. **Lane:** 0
Survey Duration: 14:29 Friday, 23 November 2018 => 9:54 Monday, 3 December 2018
File: HCC-P-0226-36003Dec2018.EC0 (Plus)
Identifier: T8011VGK MC56-L5 [MC55] (c)Microcom 19Oct04
Algorithm: Factory default (v3.21 - 15322)
Data type: Axle sensors - Paired (Class/Speed/Count)
Filter time: **0:00 Saturday, 24 November 2018 => 0:00 Saturday, 1 December 2018**
Direction: East, West (bound)

	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Averages 1 - 5	Averages 1 - 7
Hour									
0000-0100	3.0	14.0	17.0	18.0	11.0	25.0	31.0	12.6	17.0
0100-0200	12.0	9.0	19.0	4.0	10.0	17.0	24.0	10.8	13.6
0200-0300	3.0	4.0	7.0	6.0	9.0	11.0	22.0	5.8	8.9
0300-0400	12.0	18.0	16.0	9.0	15.0	11.0	11.0	14.0	13.1
0400-0500	13.0	17.0	30.0	15.0	15.0	15.0	8.0	18.0	16.1
0500-0600	36.0	31.0	36.0	32.0	38.0	10.0	20.0	34.6	29.0
0600-0700	87.0	79.0	70.0	87.0	76.0	22.0	27.0	79.8	64.0
0700-0800	256.0	246.0	270.0	232.0	229.0	69.0	28.0	246.6	190.0
0800-0900	**353.0<**	**373.0<**	**392.0<**	**374.0<**	**342.0<**	106.0	72.0	**366.8<**	**287.4<**
0900-1000	183.0	270.0	275.0	202.0	216.0	210.0	184.0	229.2	220.0
1000-1100	156.0	212.0	240.0	203.0	188.0	**222.0<**	194.0	199.8	202.1
1100-1200	192.0	209.0	234.0	197.0	197.0	194.0	**221.0<**	205.8	206.3
1200-1300	214.0	241.0	273.0	197.0	219.0	**240.0<**	227.0	228.8	230.1
1300-1400	203.0	253.0	279.0	236.0	244.0	197.0	229.0	243.0	234.4
1400-1500	222.0	248.0	338.0	237.0	262.0	229.0	232.0	261.4	252.6
1500-1600	352.0	353.0	348.0	334.0	360.0	207.0	232.0	349.4	312.3
1600-1700	331.0	325.0	355.0	342.0	316.0	220.0	**235.0<**	333.8	303.4
1700-1800	**427.0<**	**416.0<**	**428.0<**	**420.0<**	**384.0<**	215.0	230.0	**415.0<**	**360.0<**
1800-1900	234.0	213.0	266.0	324.0	311.0	148.0	166.0	269.6	237.4
1900-2000	208.0	197.0	201.0	208.0	254.0	163.0	119.0	213.6	192.9
2000-2100	109.0	136.0	162.0	257.0	110.0	123.0	107.0	154.8	143.4
2100-2200	73.0	87.0	94.0	120.0	111.0	85.0	69.0	97.0	91.3
2200-2300	38.0	54.0	56.0	58.0	110.0	59.0	42.0	63.2	59.6
2300-2400	25.0	29.0	38.0	26.0	36.0	61.0	28.0	30.8	34.7
Totals									
0700-1900	3123.0	3359.0	3698.0	3298.0	3268.0	2257.0	2250.0	3349.2	3036.1
0600-2200	3600.0	3858.0	4225.0	3970.0	3819.0	2650.0	2572.0	3894.4	3527.7
0600-0000	3663.0	3941.0	4319.0	4054.0	3965.0	2770.0	2642.0	3988.4	3622.0
0000-0000	3742.0	4034.0	4444.0	4138.0	4063.0	2859.0	2758.0	4084.2	3719.7
AM Peak	0800	0800	0800	0800	0800	1000	1100		
	353.0	373.0	392.0	374.0	342.0	222.0	221.0		
PM Peak	1700	1700	1700	1700	1700	1200	1600		
	427.0	416.0	428.0	420.0	384.0	240.0	235.0		

*** - No data.**

WSP Opus Traffic Surveys & Analysis
Speed Statistics by Hour

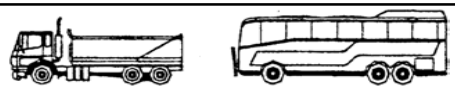
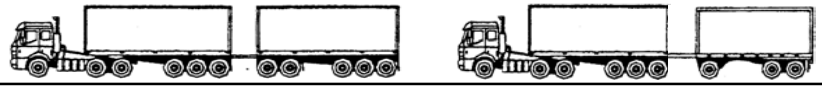
Datasets:

Site: **[HCC-P-0226-360] Crosby Rd (Btn Winstone & Sussex) <50kph> 360m**
Direction: 8 - East bound A>B, West bound B>A. **Lane:** 0
Survey Duration: 14:29 Friday, 23 November 2018 => 9:54 Monday, 3 December 2018
File: HCC-P-0226-36003Dec2018.EC0 (Plus)
Identifier: T8011VGK MC56-L5 [MC55] (c)Microcom 19Oct04
Algorithm: Factory default (v3.21 - 15322)
Data type: Axle sensors - Paired (Class/Speed/Count)
Filter time: **0:00 Saturday, 24 November 2018 => 0:00 Saturday, 1 December 2018**
Direction: East, West (bound)
Separation: All - (Headway)
Vehicles = 26038
Posted speed limit = 60 km/h, Exceeding = 6675 (25.64%), Mean Exceeding = 64.84 km/h
Maximum = 135.8 km/h, **Minimum** = 10.2 km/h, **Mean** = 55.8 km/h
85% Speed = 62.3 km/h, **95% Speed** = 67.7 km/h, **Median** = 55.4 km/h
20 km/h Pace = 46 - 66, **Number in Pace** = 22493 (86.39%)
Variance = 58.51, **Standard Deviation** = 7.65 km/h

Hour Bins

Time	Bin		Min	Max	Mean	Median	85%	95%	>PSL 60 km/h	
0000	119	0.5%	10.4	79.3	53.7	53.3	62.6	70.2	32	26.9%
0100	95	0.4%	10.3	121.8	52.2	52.2	63.7	73.1	24	25.3%
0200	62	0.2%	41.9	80.1	59.6	57.2	69.8	73.4	28	45.2%
0300	92	0.4%	28.9	89.1	57.9	58.0	64.8	72.4	37	40.2%
0400	113	0.4%	32.4	86.8	58.6	57.6	67.3	77.8	50	44.2%
0500	203	0.8%	26.7	114.9	57.8	57.2	66.2	76.3	66	32.5%
0600	448	1.7%	17.0	88.4	58.7	58.0	67.3	72.7	183	40.8%
0700	1330	5.1%	20.6	83.3	56.8	56.5	63.4	67.7	424	31.9%
0800	2012	7.7%	18.8	86.0	55.5	55.4	61.6	65.9	461	22.9%
0900	1540	5.9%	19.6	86.6	55.4	55.1	61.9	67.0	352	22.9%
1000	1415	5.4%	18.8	107.8	55.8	55.4	63.0	67.7	378	26.7%
1100	1444	5.5%	10.2	92.5	55.1	55.1	62.3	67.0	349	24.2%
1200	1611	6.2%	17.3	93.2	55.3	55.8	62.3	67.7	429	26.6%
1300	1641	6.3%	17.9	96.7	56.1	55.4	62.6	67.3	448	27.3%
1400	1768	6.8%	17.6	114.2	55.9	55.4	62.6	67.3	461	26.1%
1500	2186	8.4%	18.5	97.5	55.8	55.4	62.3	67.0	512	23.4%
1600	2124	8.2%	20.7	103.9	56.3	55.8	62.6	68.4	572	26.9%
1700	2520	9.7%	12.9	120.4	56.2	55.8	62.3	66.6	664	26.3%
1800	1662	6.4%	17.6	87.8	56.2	55.8	62.3	67.3	432	26.0%
1900	1350	5.2%	12.7	98.2	55.5	55.1	61.9	68.0	323	23.9%
2000	1004	3.9%	11.3	135.8	54.6	53.6	60.8	65.9	192	19.1%
2100	639	2.5%	25.4	107.6	54.4	53.6	61.2	66.2	121	18.9%
2200	417	1.6%	28.0	105.2	54.6	53.6	61.2	67.3	81	19.4%
2300	243	0.9%	21.9	85.3	54.5	53.3	62.6	70.9	56	23.0%
----	**26038**	**100.0%**	**10.2**	**135.8**	**55.8**	**55.4**	**62.3**	**67.7**	**6675**	**25.6%**

AUSTROADS Vehicle Classification System

Level 1	Level 2		Level 3	AUSTROADS Classification		
Length (indicative)	**Axles and Axle Groups**		**Vehicle Type**			
Type	**Axles**	**Groups**	**Typical Description**	**Class**	**Parameters**	**Typical Configuration**
	LIGHT VEHICLES					
Short up to 5.5m		1 or 2	**Short** Sedan, Wagon, 4WD, Utility, Light Van, Bicycle, Motorcycle, etc	**1**	d(1) ≤ 3.2m and axles = 2	
Medium 5.5m to 14.5m	3, 4 or 5	3	**Short - Towing** Trailer, Caravan, Boat, etc	**2**	groups = 3 d(1) ≥ 2.1m, d(1) ≤ 3.2m, d(2) ≥ 2.1m and axles = 3, 4 or 5	
	HEAVY VEHICLES					
	2	2	**Two Axle Truck or Bus**	**3**	d(1) > 3.2m and axles = 2	
	3	2	**Three Axle Truck or Bus**	**4**	axles = 3 and groups = 2	
	> 3	2	**Four Axle Truck**	**5**	axles > 3 and groups = 2	
Long 11.5m to 19.0m	3	3	**Three Axle Articulated** Three axle articulated vehicle, or Rigid vehicle and trailer	**6**	d(1) > 3.2m, axles = 3 and groups = 3	
	4	> 2	**Four Axle Articulated** Four axle articulated vehicle, or Rigid vehicle and trailer	**7**	d(2) < 2.1m or d(1) < 2.1m or d(1) > 3.2m axles = 4 and groups > 2	
	5	> 2	**Five Axle Articulated** Five axle articulated vehicle, or Rigid vehicle and trailer	**8**	d(2) < 2.1m or d(1) < 2.1m or d(1) > 3.2m axles = 5 and groups > 2	
	≥ 6	> 2	**Six Axle Articulated** Six axle articulated vehicle, or Rigid vehicle and trailer	**9**	axles = 6 and groups > 2 or axles > 6 and groups = 3	
Medium Combination 17.5m to 36.5m	> 6	4	**B Double** B Double, or Heavy truck and trailer	**10**	groups = 4 and axles > 6	
	> 6	5 or 6	**Double Road Train** Double road train, or Medium articulated vehicle and one dog trailer (M.A.D.)	**11**	groups = 5 or 6 and axles > 6	
Large Combination Over 33.0m	> 6	> 6	**Triple Road Train** Triple road train, or Heavy truck and three trailers	**12**	groups > 6 and axles > 6	

Definitions:

Group: Axle group, where adjacent axles are less than 2.1m apart

Groups: Number of axle groups

Axles: Number of axles (maximum axle spacing of 10.0m)

d(1): Distance between first and second axle

d(2): Distance between second and third axle