

Memorandum

Date:

July 15, 2019

Project:

LGA004-7

To:

Mr. Jessy Pu

Traffic Engineer - Town of Los Gatos

From:

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Subject: Hillbrook School 2018-2019 Monitoring – Spring Trimester Report

This memorandum summarizes the Spring Trimester traffic monitoring of Hillbrook School in Los Gatos for the 2018-2019 school year. The purpose of this memo is to summarize the 2019 Spring Trimester manual data collection and daily vehicle trips and to note any discrepancies in the data collection. Overall, Hillbrook School did not exceed the maximum number of daily vehicle trips during Spring Trimester.

Existing Conditions

The Hillbrook School is located at 300 Marchmont Drive in the Town of Los Gatos. According to Condition 17 of the School's Conditional Use Permit, "the maximum number of daily vehicle trips shall not exceed 880." The School can identify up to 10 exception days where they are permitted to exceed the maximum number of daily trips, however, the total number of trips on these exception days shall not exceed 960. During the summer trimester "the maximum number of daily vehicle trips shall not exceed 300." The school maintains two Sensys magnetometer traffic counters embedded in the pavement of the exit lane outside the school's gate, approximately 30 feet apart. These magnetometers (Sensys counters) are calibrated to detect the presence of vehicles and motorcycles but not bicycles or other non-motorized means of transportation.

Hillbrook School and Sensys staff continuously monitor the functionality of the system and the magnetometers are self-calibrating and self-tuning and are upgraded remotely as new software is released. The sensors are to be calibrated and validated each trimester. Hillbrook School confirmed that the sensors were reviewed at the beginning of the Spring Trimester. Hillbrook staff have been in contact with Sensys staff on a monthly basis to ensure full system functionality. Sensys staff have previously performed an independent validation of the county system and concluded the daily counts are showing between 97% and 99.75% accuracy. Hillbrook School has implemented traffic control measures to improve the flow of vehicles over the sensors in order to maintain data accuracy, such as lane delineators along Marchmont Drive.

Hillbrook School has only one vehicular access point, and because of this it is assumed that all exit trips also made an entrance trip through this location. For reporting purposes, the maximum of either Exit A or Exit B is used to determine the number of daily trips.

The Conditional Use Permit also outlines the requirements of manual data collection in Condition 19 and "the school shall be considered out of compliance if any mechanical readings exceed the Sensys counts by more than five percent and where the readings are above the maximum number of daily vehicle trips."

A permanent backup pneumatic tube counter, a MetroCount MC56000 Vehicle Classifier System, is located in both the entrance and exit lanes just outside of the School's gate. Pneumatic tube systems utilize rubber tubes placed across traffic lanes in specific configurations. When a vehicle travels over the tube the air pressure in the tube is compressed and this compression triggers an event recording. The system is programed to classify vehicles based on the distance between the front and rear axle. The School's MetroCount system counts the total number of trips, both entrance and exit trips.

During a site visit in April 2019, Hillbrook School staff provided W-Trans staff with a walk through of the Sensys system and the MetroCount backup system. We were able to see, in real time, the Sensys system counting vehicles with the data reporting online. While the Sensys system can be accessed remotely online, the MetroCount system is local to the School's network. The School has agreed to, and continues to, actively provide W-Trans with backup data directly from the MetroCount system when necessary.

24-hour Manual Counts and Observations

For the 2019 Spring Trimester, traffic counts were obtained on Marchmont Drive on March 28th, April 26th, and May 15th. These dates were selected to cover a variety of on-campus activities. On Thursday March 28th, Hillbrook School had their 8th Grade Musical, an exception day and evening event as noted by Hillbrook School at the beginning of the school year. Friday April 26th was a typical school day with no on-campus events scheduled. Wednesday May 15th was the opening day of the afterschool Art Show. Hillbrook School is not hosting any on-campus sporting events this school year due to construction activities.

The traffic counts based on video taken by W-Trans represent the total sum of entrance and exit trips for 24-hours, broken down into 15-minute intervals. The Sensys counts represent the exit trips for the same 24-hour period. In order to convert exit trips to both entrance and exit trips, the maximum count from either Exit A or Exit B was determined and then doubled (assuming one trip in is equivalent to one trip out). The data from the Exit A sensor was higher than the data from the Exit B sensor on March 28th and April 26th; therefore, the Sensys counts compared to the video counts on those days are the doubled counts from the Exit A sensor. On May 15th, a construction vehicle blocked the exit lane during the afternoon pick up for approximately 45 minutes. The manual video counts were able to capture the total number of vehicles during that time; however, the Sensys system was unable to collect data. Therefore, the backup tube counter data was requested from the school and compared to the manual video data collection. The raw Sensys data, tube count data, and video counts are attached. The manual counts were then compared to the Sensys data for the same time period in Table 1.

Date	Day of the Week		unts ehicles)	Summary of Counts				
		Video	Sensys	Percent Difference	Difference in Trips			
03/28/19	Thursday	878	906	3.14%	28			
04/26/19	Friday	752	736	2.15%	16			
05/15/19	Wednesday	767	761*	0.79%	6			
Average	111	799	801	0.25%	2			

Note: * = data from backup tube counter system

The manually counted video counts were reviewed to ensure accuracy. The average difference, overall and on each day, was less than five percent and should be considered acceptable within the margin of error. Additionally, none of the data points exceeded the Conditional Use Permit daily trip cap of 880 daily trips for normal school days or 960 daily trips for an exception day.

2019 Spring Trimester Summary

- During the 2019 Spring Trimester, Hillbrook School did not exceed the maximum number of daily trips (880).
 Attached, in Table 2, is the daily summary of Sensys counts for the 2019 Spring Trimester. There were seven exception days during the 2019 Spring Trimester. However, the number of daily trips on the exception days did not exceed the maximum number of daily trips (960) for an exception day.
- The highest number of daily vehicle trips was 906 trips and occurred on March 28, 2019, an exception day.
- The average number of school day vehicle trips for the 2019 Spring Trimester was approximately 708 trips.
- The Sensys counters did not register counts between January 25th and January 30th due to a relay failure. The
 school contacted Sensys immediately to fix the problem. Hillbrook School provided backup counts in onehour intervals directly from the MetroCount system for these days during the system outage. These backup
 counts were provided to the Town with the January Sensys counts.
- Excluding weekends and school holidays, there were 17 instances where the difference between Sensor A and Senor B was greater than five percent (5%). The average difference between the Sensor A and Sensor B counts was 24 vehicles.
- The cumulative percent difference between Sensor A and Sensor B for the 2019 Spring Trimester was 2.90%.
- The largest daily difference between Sensor A and Sensor B was 35 vehicles on May 29th. In January 2019 the average daily difference between Sensor A and Sensor B was approximately eight vehicles. The difference was approximately six vehicles in February, 12 vehicles in March, 11 vehicles in April, 14 vehicles in May and ten vehicles in June.

Conclusions

Overall, Hillbrook School was in compliance with Condition 17 of the School's Conditional Use Permit for the school year 2018 - 2019 Spring Trimester. The next monitoring report is the Fall 2019 Trimester Manual Counts anticipated to be completed in December 2019, prior to the conclusion of Hillbrook School's Fall Trimester. We will continue to provide monthly downloads of Sensys data during the first week of each month.

Thank you for giving W-Trans the opportunity to provide these services. Please call if you have any questions.

MES/nfb/LGA004-7.M2

Attachments: Spring Trimester Video Count Summary



Table 2 – D	aily Sensys Co	unt Summary	– 2019 Spri	ng Trimester		
Date	Day of the Week	Sensys (# of Ve		Summary o		Notes
		Exit A	Exit B	Percent Difference	Daily Trips	
01/07/19	Monday	351	332	5.6%	702	First Day of School
01/08/19	Tuesday	355	334	6.1%	710	
01/09/19	Wednesday	334	328	1.8%	668	
01/10/19	Thursday	362	353	2.5%	724	
01/11/19	Friday	328	327	0.3%	656	
01/12/19	Saturday	21	18	15.4%	42	
01/13/19	Sunday	12	19	45.2%	38	
01/14/19	Monday	335	327	2.4%	670	
01/15/19	Tuesday	352	349	0.9%	704	
01/16/19	Wednesday	351	341	2.9%	702	Exception Day
01/17/19	Thursday	365	358	1.9%	730	
01/18/19	Friday	348	343	1.4%	696	111
01/19/19	Saturday	20	20	0.0%	40	
01/20/19	Sunday	2	3	40.0%	6	B1 1
01/21/19	Monday	14	14	0.0%	28	No School – MLK, Jr. Day
01/22/19	Tuesday	334	325	2.7%	668	
01/23/19	Wednesday	349	340	2.6%	698	Exception Day
01/24/19	Thursday	352	349	0.9%	704	
01/25/19	Friday	_	-	-	724	Tube Count Backup Data
01/26/19	Saturday	_	-	-	9	Tube Count Backup Data
01/27/19	Sunday	-	-	ine	2	Tube Count Backup Data
01/28/19	Monday	-	-	-	755	Tube Count Backup Data
01/29/19	Tuesday	-	-	-	731	Tube Count Backup Data
01/30/19	Wednesday	-	-	-	783	Tube Count Backup Data
01/31/19	Thursday	366	366	2.2%	732	
02/01/19	Friday	343	330	0.0%	686	
02/02/19	Saturday	4	5	3.9%	10	
02/03/19	Sunday	13	8	22.2%	26	
02/04/19	Monday	391	374	47.6%	782	
02/05/19	Tuesday	381	374	4.4%	762	

	Daily Sensys Co		SECOND PROPERTY.	-		DI 4
Date	Day of the Week	Sensys (# of Ve		Summary o		Notes
		Exit A	Exit B	Percent Difference	Daily Trips	
02/06/19	Wednesday	362	353	1.9%	724	
02/07/19	Thursday	402	394	2.5%	804	
02/08/19	Friday	352	348	2.0%	704	
02/09/19	Saturday	13	14	1.1%	28	
02/10/19	Sunday	11	13	7.4%	26	
02/11/19	Monday	377	359	16.7%	754	
02/12/19	Tuesday	361	358	4.9%	722	
02/13/19	Wednesday	409	404	0.8%	818	
02/14/19	Thursday	377	369	1.2%	754	
02/15/19	Friday	360	362	2.1%	724	
02/16/19	Saturday	14	10	0.6%	28	
02/17/19	Sunday	4	7	33.3%	14	
02/18/19	Monday	14	15	54.5%	30	No School – February Break
02/19/19	Tuesday	92	92	6.9%	184	No School – February Break
02/20/19	Wednesday	89	84	0.0%	178	No School – February Break
02/21/19	Thursday	80	82	5.8%	164	No School – February Break
02/22/19	Friday	70	69	2.5%	140	No School – February Break
02/23/19	Saturday	15	14	1.4%	30	
02/24/19	Sunday	10	12	6.9%	24	
02/25/19	Monday	359	358	18.2%	718	
02/26/19	Tuesday	380	377	0.3%	760	
02/27/19	Wednesday	377	369	0.8%	754	
02/28/19	Thursday	357	350	2.1%	714	
03/01/19	Friday	363	356	2.0%	726	
03/02/19	Saturday	9	10	1.9%	20	
03/03/19	Sunday	5	10	10.5%	20	
03/04/19	Monday	344	323	66.7%	688	
03/05/19	Tuesday	357	343	6.3%	714	
03/06/19	Wednesday	364	355	4.0%	728	
03/07/19	Thursday	366	349	2.5%	732	
03/08/19	Friday	355	325	4.8%	710	
03/09/19	Saturday	12	11	8.8%	24	
03/10/19	Sunday	10	12	8.7%	24	
03/11/19	Monday	363	335	18.2%	726	
03/12/19	Tuesday	395	388	8.0%	790	

Date	Day of the	Sensys		Summary o	f Sensys	Notes	
	Week	(# of Ve	hicles)	Coun	its		
		Exit A	Exit B	Percent Difference	Daily Trips		
03/13/19	Wednesday	384	392	1.8%	784		
03/14/19	Thursday	422	415	2.1%	844		
03/15/19	Friday	370	370	1.7%	740		
03/16/19	Saturday	14	15	0.0%	30		
03/17/19	Sunday	13	20	6.9%	40		
03/18/19	Monday	274	268	42.4%	548	No School – Conferences	
03/19/19	Tuesday	337	321	2.2%	674	No School – Conferences	
03/20/19	Wednesday	358	353	4.9%	716		
03/21/19	Thursday	393	383	1.4%	786		
03/22/19	Friday	358	350	2.6%	716		
03/23/19	Saturday	17	19	2.3%	38		
03/24/19	Sunday	19	16	11.1%	38		
03/25/19	Monday	388	374	17.1%	776		
03/26/19	Tuesday	383	377	3.7%	766		
03/27/19	Wednesday	415	388	1.6%	830	Exception Day	
03/28/19	Thursday	453	443	6.7%	906	Exception Day	
03/29/19	Friday	385	384	2.2%	770		
03/30/19	Saturday	9	10	0.3%	20		
03/31/19	Sunday	16	11	10.5%	32		
04/01/19	Monday	347	343	37.0%	694	2	
04/02/19	Tuesday	380	353	1.2%	760		
04/03/19	Wednesday	359	342	7.4%	718		
04/04/19	Thursday	333	324	4.9%	666		
04/05/19	Friday	335	331	2.7%	670		
04/06/19	Saturday	9	8	1.2%	18		
04/07/19	Sunday	6	6	11.8%	12		
04/08/19	Monday	32	31	0.0%	64	No School – Spring Break	
04/09/19	Tuesday	35	33	3.2%	70	No School – Spring Break	
04/10/19	Wednesday	22	25	5.9%	50	No School – Spring Break	
04/11/19	Thursday	30	33	12.8%	66	No School – Spring Break	
04/12/19	Friday	18	19	9.5%	38	No School – Spring Break	
04/13/19	Saturday	11	16	5.4%	32		
04/14/19	Sunday	7	6	37.0%	14		
04/15/19	Monday	346	338	15.4%	692		
04/16/19	Tuesday	353	335	2.3%	706		

Table 2 – I	Daily Sensys Co	unt Summary	- 2019 Spri	ng Trimester		
Date	Day of the Week	Sensys (# of Ve		Summary of Coun		Notes
		Exit A	Exit B	Percent Difference	Daily Trips	
04/17/19	Wednesday	370	370	5.2%	740	
04/18/19	Thursday	369	362	0.0%	738	
04/19/19	Friday	362	352	1.9%	724	
04/20/19	Saturday	21	21	2.8%	42	
04/21/19	Sunday	11	7	0.0%	22	
04/22/19	Monday	375	366	44.4%	750	
04/23/19	Tuesday	378	349	2.4%	756	
04/24/19	Wednesday	395	389	8.0%	790	
04/25/19	Thursday	382	359	1.5%	764	
04/26/19	Friday	368	352	6.2%	736	Exception Day
04/27/19	Saturday	15	16	4.4%	32	
04/28/19	Sunday	5	8	6.5%	16	
04/29/19	Monday	404	395	46.2%	808	
04/30/19	Tuesday	397	375	2.3%	794	
05/01/19	Wednesday	376	358	5.7%	752	
05/02/19	Thursday	380	372	4.9%	760	
05/03/19	Friday	335	314	2.1%	670	
05/04/19	Saturday	14	15	6.5%	30	
05/05/19	Sunday	12	9	6.9%	24	
05/06/19	Monday	367	363	28.6%	734	
05/07/19	Tuesday	381	373	1.1%	762	
05/08/19	Wednesday	356	350	2.1%	712	
05/09/19	Thursday	375	358	1.7%	750	
05/10/19	Friday	393	394	4.6%	788	Exception Day
05/11/19	Saturday	26	23	0.3%	52	
05/12/19	Sunday	2	2	12.2%	4	
05/13/19	Monday	340	323	0.0%	680	
05/14/19	Tuesday	383	358	5.1%	766	
05/15/19	Wednesday	338	322	6.7%	676	
05/16/19	Thursday	370	360	4.8%	740	
05/17/19	Friday	370	355	2.7%	740	Exception Day
05/18/19	Saturday	20	21	4.1%	42	
05/19/19	Sunday	2	3	4.9%	6	
05/20/19	Monday	321	312	40.0%	642	
05/21/19	Tuesday	286	274	2.8%	572	

Table 2 - D	aily Sensys Co	unt Summary	– 2019 Spri	ng Trimester		
Date	Day of the Week	Sensys ((# of Ve		Summary o	-	Notes
		Exit A	Exit B	Percent Difference	Daily Trips	
05/22/19	Wednesday	289	282	4.3%	578	
05/23/19	Thursday	317	299	2.5%	634	
05/24/19	Friday	304	290	5.8%	608	
05/25/19	Saturday	17	12	4.7%	34	
05/26/19	Sunday	7	9	34.5%	18	
05/27/19	Monday	12	15	25.0%	30	No School – Memorial Day
05/28/19	Tuesday	379	360	22.2%	758	E
05/29/19	Wednesday	341	306	5.1%	682	
05/30/19	Thursday	377	362	10.8%	754	
05/31/19	Friday	331	326	4.1%	662	
06/01/19	Saturday	32	30	1.5%	64	
06/02/19	Sunday	13	16	6.5%	32	
06/03/19	Monday	378	368	20.7%	756	
06/04/19	Tuesday	194	186	2.7%	388	Last Day of School

Note: Allowable percent difference less than five percent: daily trip cap 880 trips during school year. Red = value exceeds conditional use permit threshold

1-1-1-	Lights	A STATE
Time	In	Out
0:00	0	0
0:15	0	2
0:30	0	0
0:45	0	0
1:00	0	0
1:15	0	0
1:45	0	0
2:00	0	0
2:15	0	0
2:30	0	0
2:45	0	0
3:00	1	1
3:15	0	0
3:30	0	0
3:45	0	0
4:00 4:15	0	0
4:15	0	0
4:45	0	0
5:00	0	0
5:15	0	0
5:30	0	0
5:45	1	0
6:00	2	0
6:15	1	0
6:30	0	0
6:45	1	0
7:00	2	0
7:15	12	1
7:30	26	9
7:45	65	39
8:00	21	35
8:15	11	15
8:30	4	3
8:45	3	
9:00	3	0
9:15	2	1
9:30	0	2
9:45	0	3
10:05	1	3
	6	5
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11:00	1	3
11:15	2	3
11:30	3	2
11:45	3	2
12:00	0	2
12:15	1	4
12:30	2	2
12:45	0	1
13:00	3	1
13:15	1	4
13:30	2	3
13:45	3	0
14:00	3	6
14:15	1	1
14:30	5	3
14:45	32	4
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40,00	15 15	11
		19
16:00	11	16
16:15	5	9
16:45	7	9
17:00	9	6
17:15	8	6
17:30	9	5
17:45	17	11
18:00	9	4
18:15	2	2
18:30	0	0
18:45	1	1
19:00	3	1
19:15	3	2
19:30	0	1
19:45	7	1
20:00	8	34
20:15	7	25
20:30	0	13
20:45	0	0
21:00	0	0
21:30	0	0
21:45	0	0
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	Heavles	1716
Time	In	Out
0:00	0	0
0:15	0	0
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0:45	0	0
1:00	0	0
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1:30	0	0
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9:15	0	0
9:30	0	0
9:45	1	1
10:00	0	0
10:15	1	1
10:30	2	1
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10:45	0	1
11:00	1	0
11:15	0	1
11:30	0	0
11:45	0	0
12:00	0	0
12:15	0	0
12:30	0	0
12:45	0	0
13:00	ō	0
13:25	0	0
13:30	0	0
13:45	1	0
14:00	2	0
14:15	0	0
14:30	1	0
14:45	0	0
15:00	0	4
15:15	0	0
15:30	0	0
15:45	1	1
15:45 16:00	0	
16:45		0
16:15	1	1
16:30	0	0
16:45	1	1
17:00	4	2
17:15	1	3
17:30	3	2
17:45	2	2
18:00	1	0
18:15	0	0
18:30	0	0
18:45	0	0
19:00	0	0
19:15	0	0
40.55	0	0
19:30	0	0
19:30 19:45		2
19:30 19:45 20:00	0	2
19:30 19:45 20:00	2	1
19:30 19:45 20:00 20:15		
19:30 19:45 20:00 20:15 20:30	0	1
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19:30 19:45 20:00 20:15 20:30 20:45 21:00 21:15 21:30 21:45 22:00 22:15 22:30 22:45	2 0 0 0 0 0 0 0 0 0	1 1 0 0 0 0 0 0 0 0 0

Time (Beginning of		Sensor	Occup		Median Speed	Avg Speed	Sensor	Occup		Median Speed	Avg Speed
Interval)	APEG	Zone	(%)	Volume	(mph)	(mph)	Zone	(%)	Volume	(mph)	(mph)
03/28/2019 00:00:00	APEG 954	45 ExitA	0.13	2	n/a	n/a	ExitB	0.06	1	n/a	n/a
03/28/2019 01:00:00	APEG 954	45 ExitA	0	0	n/a	n/a	ExitB	0	0	n/a	n/a
03/28/2019 02:00:00	APEG 954	45 ExitA	0	0	n/a	n/a	ExitB	0	0	n/a	n/a
03/28/2019 03:00:00	APEG 954	45 ExitA	0.04	. 1	n/a	n/a	ExitB	0.03	1	n/a	n/a
03/28/2019 04:00:00	APEG 954	45 ExitA	0	0	n/a	n/a	ExitB	C	0	n/a	n/a
03/28/2019 05:00:00	APEG 954	45 ExitA	0	(n/a	n/a	ExitB	C	0	n/a	n/a
03/28/2019 06:00:00	APEG 954	45 ExitA	0	(n/a	n/a	ExitB	C	0	n/a	n/a
03/28/2019 07:00:00	APEG 954	45 ExitA	1.82	57	n/a	n/a	ExitB	1.57	54	n/a	n/a
03/28/2019 08:00:00	APEG 954	45 ExitA	1.51	55	n/a	n/a	ExitB	1.36	57	n/a	n/a
03/28/2019 09:00:00	APEG 95	45 ExitA	0.17	. 6	n/a	n/a	ExitB	0.15	7	n/a	n/a
03/28/2019 10:00:00	APEG 95	45 ExitA	0.43	13	n/a	n/a	ExitB	0.40	15	n/a	n/a
03/28/2019 11:00:00	APEG 954	45 ExitA	0.29	9	n/a	n/a	ExitB	0.25	9	n/a	n/a
03/28/2019 12:00:00	APEG 95	45 ExitA	0.26	9	n/a	n/a	ExitB	0.24	9	n/a	n/a
03/28/2019 13:00:00	APEG 95	45 ExitA	0.21	. 8	n/a	n/a	ExitB	0.19	8	n/a	n/a
03/28/2019 14:00:00	APEG 95	45 ExitA	0.36	14	n/a	n/a	ExitB	0.30) 14	n/a	n/a
03/28/2019 15:00:00	APEG 95	45 ExitA	2.83	98	n/a	n/a	ExitB	2.45	96	n/a	n/a
03/28/2019 16:00:00	APEG 95	45 ExitA	1.41	. 46	n/a	n/a	ExitB	1.21	46	n/a	n/a
03/28/2019 17:00:00	APEG 95	45 ExitA	1.64	40	n/a	n/a	ExitB	1.50	38	n/a	n/a
03/28/2019 18:00:00	APEG 95	45 ExitA	0.16		n/a	n/a	ExitB	0.63	3 8	n/a	n/a
03/28/2019 19:00:00	APEG 95	45 ExitA	0.15		n/a	n/a	ExitB	0.14	5	n/a	n/a
03/28/2019 20:00:00	APEG 95	45 ExitA	4.04	81	l n/a	n/a	ExitB	2.59	74	n/a	n/a
03/28/2019 21:00:00	APEG 95	45 ExitA	() (n/a	n/a	ExitB	() 0	n/a	n/a
03/28/2019 22:00:00	APEG 95	45 ExitA	0) (n/a	n/a	ExitB	(0	n/a	n/a
03/28/2019 23:00:00	APEG 95	45 ExitA	0.13	3	n/a	n/a	ExitB	0.05	1	n/a	n/a
Grand Total	APEG 9	54 ExitA	0.65	453		n/a	ExitB	0.55	443		n/a

	Lights	
7ime 0:00	In O	Out
0:00	0	0
0:30	0	0
0:45	0	0
1:00	0	0
1:30	0	0
1:45 2:00	0	0
2:00	0	0
2:30	0	0
2:45	0	0
3:00 3:15	0	0
3:30	0	0
9:45	0	0
4:00 4:15	0	0
4:30	0	0
4:45	0	0
5:00 5:15	0	0
5:30	0	0
5:45	0	0
6:00	4	0
6:15 6:30	2	0
6:45	2	0
7:00	3	0
7:15 7:30	22	8
7:45	67	36
8:00	37	41
8:15 8:30	10	7
8:45	4	2
9:00	3	4
9:15 9:30	0	5 2
9:45	1	1
10:00	2	3
10:15	2	8
10:30 10:45	0	0
11:00	1	0
11:15	1	2
11:30 11:45	2	1 0
12:00	0	2
12:10	3	2
12:30 12:45	2	3
12:45 13:00	16	4
13:15	28	4
13:30 13:45	27	1
14:00	12	5
14:15	0	4
14:30 14:45	5 12	6
15:00	12	40
15:15	10	69
15:30	5 3	17
15:45 16:00	2	12
16:15	1	4
16:30	3	4
16:45 17:00	4	6
17:15	4	7
17:30	1	3
17:45 18:00	0	1
18:15	0	0
18:30	0	0
18:45 19:00	0	1
19:15	0	0
19:30	0	0
19:45 20:00	0	0
20:15	0	0
20:30	0	0
20:45 21:00	0	0
21:15	0	0
21:30	0	0
21:45 22:00	0	0
22:15	0	0
22:30	0	0
22:45 23:00	0	0
23:15	0	0
23:30	0	0
23:45 Total	350	347
rough	340	341

	Heavies	1
Time	In	Out
0:00	0	0
0:15	0	0
0:30	0	0
1:00	0	0
1:15	0	0
1:30	0	0
1:30	0	0
2:00	0	0
	0	0
2:15	0	0
2:45	0	0
3:00	0	Ö
3:15	0	0
3:30	0	0
3:45	0	0
4:00	0	0
4:15	0	0
4:30	0	0
4:45	0	0
5:00	0	0
5:15	0	0
5:30	0	0
5:45	0	0
6:00	0	0
6:15	0	0
6:30	0	0
6:45	1	1
7:00	1	1
7:15	0	0
7:30	1	0
7:45	4	4
8:00	0	0
8:15	0	0
8:30	0	0
8:45	0	0
9:00	1	0
9:15	0	1
9:30	1	1
9:45	1	1
10:00	0	0
10:15	0	0
10:30	2	0
10:45	0	1
11:00	0	1
11:15	0	0
11:30	1	1
11:45	0	0
12:00	0	0
12:15	0	0
12:30	2	0
12:45	0	2
13:00	1	1
13:15	2	2
13:30	2	1
13:45	1	0
14:00	1	0
14:15	0	0
14:30 14:45	1	0
15:00	0	0
15:15	0	4
15:30	2	2
15:45	1	1
16:00	1	0
16:15	ō	1
16:30	1	ō
16:45	0	0
17:00	0	0
17:15	0	1
17:30	0	0
17:45	0	0
18:00	0	0
18:15	0	0
18:30	0	0
18:45	0	0
19:00	0	0
19:15	0	0
19:30	0	0
19:45	0	0
20:00	0	0
20:15	0	0
20:30	0	0
20:45	0	0
21:00	0	0
21:15	0	0
21:30	0	0
21:45	0	0
22:00	0	0
22:15	0	0
22:30	0	0
22:45	0	0
23:00	0	0
		0
23:15	0	
	0	0

Time (Beginning of Interval)	APEG	Sensor Zone	Occup (%)	Volume	Median Speed (mph)	Avg Speed (mph)	Sensor Zone	Occup (%)	Volume	Median Speed (mph)	Avg Speed (mph)
04/26/2019 00:00:00	APEG 954	E ExitA	0	() n/a	n/a	ExitB		0 0	n/a	n/a
04/26/2019 01:00:00	APEG 954	5 ExitA	0	() n/a	n/a	ExitB		0 0	n/a	n/a
04/26/2019 02:00:00	APEG 954	IS ExitA	0	() n/a	n/a	ExitB	Manager 1	0 0	n/a	n/a
04/26/2019 03:00:00	APEG 954	IS ExitA	0	(n/a	n/a	ExitB		0 0	n/a	n/a
04/26/2019 04:00:00	APEG 954	E ExitA	0	() n/a	n/a	ExitB		0 0	n/a	n/a
04/26/2019 05:00:00	APEG 954	IS ExitA	0	(n/a	n/a	ExitB		0 0	n/a	n/a
04/26/2019 06:00:00	APEG 954	IS ExitA	0.09		1 n/a	n/a	ExitB	0.4	0 1	n/a	n/a
04/26/2019 07:00:00	APEG 954	IS ExitA	1.53	43	3 n/a	n/a	ExitB	1.6	2 43	n/a	n/a
04/26/2019 08:00:00	APEG 954	E ExitA	1.90	66	6 n/a	n/a	ExitB	1.8		n/a	n/a
04/26/2019 09:00:00	APEG 954	E ExitA	0.35	1!	5 n/a	n/a	ExitB	0.3		n/a	n/a
04/26/2019 10:00:00	APEG 954	E ExitA	0.50	16	5 n/a	n/a	ExitB	0.4	5 16	n/a	n/a
04/26/2019 11:00:00	APEG 954	IS ExitA	0.22		7 n/a	n/a	ExitB	0.1	8 5	n/a	n/a
04/26/2019 12:00:00	APEG 954	E ExitA	0.43		0 n/a	n/a	ExitB	0.3	8 11	n/a	n/a
04/26/2019 13:00:00	APEG 954	#5 ExitA	0.62	1	7 n/a	n/a	ExitB	0.5	9 15	n/a	n/a
04/26/2019 14:00:00	APEG 954	E ExitA	0.40	18	8 n/a	n/a	ExitB	0.3		n/a	n/a
04/26/2019 15:00:00	APEG 954	15 ExitA	3.69	134	4 n/a	n/a	ExitB	2.8	7 120	n/a	n/a
04/26/2019 16:00:00	APEG 954	15 ExitA	0.44	17	7 n/a	n/a	ExitB	0.4	4 19	n/a	n/a
04/26/2019 17:00:00	APEG 954	15 ExitA	0.57		9 n/a	n/a	ExitB	0.4		n/a	n/a
04/26/2019 18:00:00	APEG 954	15 ExitA	0.02		1 n/a	n/a	ExitB	0.0	2 2	n/a	n/a
04/26/2019 19:00:00	APEG 954	45 ExitA	0.03	3	1 n/a	n/a	ExitB	0.0	3 1	n/a	n/a
04/26/2019 20:00:00	APEG 954	15 ExitA	0.41		3 n/a	n/a	ExitB	0.1		n/a	n/a
04/26/2019 21:00:00	APEG 954	45 ExitA	(0 n/a	n/a	ExitB			n/a	n/a
04/26/2019 22:00:00	APEG 954	15 ExitA	(0 n/a	n/a	ExitB		0 0	n/a	n/a
04/26/2019 23:00:00	APEG 954	45 ExitA	(0 n/a	n/a	ExitB		0 0	n/a	n/a
Grand Total	APEG 95	4 ExitA	0.47		8	n/a	ExitB	0.4			n/a

Lights									
Time		T Out							
0:00	In O	Out							
0:00	0	0							
0:15									
0:30	0	0							
0:45	0	0							
1:00	0	0							
1:15	0	0							
1:30	0	0							
1:45	0	0							
2:00	0	0							
2:15	0	0							
2:30	0	0							
2:45	0	0							
3:00	1	1							
3:15	0	0							
3:30	0	0							
3:45	0	0							
4:00	0	0							
	0	0							
4:30	0	0							
4:45	0	0							
5:00	1	0							
5:15	0	0							
5:30	0	0							
5:45	1	0							
	2								
6:00		0							
6:15	5	0							
6:30	2	0							
6:45	1	0							
7:00	7	0							
7:15	21	2							
7:30	30	5							
7:45	68	48							
8:00	38	37							
8:15	14	14							
8:30	6	3							
0.30		4							
8:45	3								
9:00	3	4							
9:15	3	5							
9:30	2	1							
9:45	1	3							
10:00	3	1							
10.00	_	3							
10:15	2								
10:30	1	4							
10:45	1	2							
11:00	3	2							
11:15	2	5							
	4								
11:30		1							
11:45	1	1							
12:00	3	4							
12:15	1	1							
12:30	4	4							
12:45	1	2							
13:00	4	5							
13.00	5	2							
13:15									
13:30	1	4							
13:45	2	3							
14:00	2	3							
14:15	4	1							
14:30	14	2							
14:45	37	13							
15:00	29	63							
15:15	9	17							
15:30	2	19							
15:45	4	11							
16:00	2	13							
16:15	7	16							
16:30	6	13							
16:45	3	7							
17,00		5							
17:00	1	3							
	3	2							
17:30	2	9							
17:45	0	1							
18:00	0	0							
18:15	0	Ö							
	0	0							
18:30									
18:45	0	0							
19:00	0	0							
19:15	0	0							
19:30	0	0							
19:45	0	0							
20:00	0	0							
20:00	0	-							
20:30	0	0							
20:45	0	0							
21:00	0	0							
21:15	0	0							
21:30	0	1							
	0	0							
21:45									
22:00	0	0							
22:15	0	0							
22:30	0	0							
22:45	0	0							
23:00	0	0							
23:15	0	0							
23:30	0	0							
23:45	0	0							
	979	367							
Total	372								

	Heavies	7.5
Time	In	Out
0:00	0	0
0:15	0	0
0:30	0	0
0:45	0	0
1:00	0	0
1:30	0	0
1:45	0	0
2:00	0	0
2:15	0	0
2:30	0	0
2:45	0	0
3:00	0	0
3:15	0	0
3:30	0	0
3:45	0	0
4:00 4:15	0	0
4:30	0	0
4:45	0	1 0
5:00	0	0
5:15	0	0
5:30	0	0
5:45	0	0
6:00	0	0
6:15	0	0
6:30	0	0
6:45	0	0
7:00	0	0
7:15	0	0
7:30 7:45	0	6
8:00	0	0
8:15	0	0
8:30	0	0
8:45	0	0
9:00	0	0
9:15	0	0
9:30	0	0
9:45	0	0
10:00	0	0
10:15	0	0
10:30	0	1
11:00	0	ô
11:15	0	0
11:30	0	0
11:45	0	0
12:00	0	0
12:15	0	0
12:30	1	1
12:45	0	0
13:00	0	0
13:30	0	0
13:45	1	0
14:00	1	0
14:15	2	0
14:30	0	0
14:45	0	0
15:00	0	4
15:15	0	0
15:30	1	0
15:45	0	0
16:00	0	0
16:15 16:30	1	0
16:45	1	1
17:00	0	0
17:15	0	1
17:30	0	0
17:45	0	0
18:00	0	0
18:15	0	0
18:30	0	0
18:45	0	0
19:00	0	0
19:15 19:30	0	0
19:45	0	0
20:00	0	0
20:15	0	0
20:30	0	0
20:45	0	0
21:00	0	0
21:15	0	0
21:30	0	0
21:45	0	0
22:00	0	0
22:15	0	0
22:30	0	0
22:45	0	0
23:00	0	0
23:30	0	0
	_	

Hillbrook XML

CIs 13

Mean

Class totals

Average speed

```
Globals
             Report Id CustomList-207
            Descriptor Hillbrook XML
            Created by MetroCount Traffic Executive
   Creation Time (UTC) 2019-06-21T22:44:08
                 Legal Copyright (c)1997 - 2014 MetroCount
              Graphic
            Language English
              Country United States
                 Time UTC + -420 min
        Create Version 4.0.6.0
                Metric Non metric
           Speed Unit mph
           Length Unit ft
             Mass Unit ton
Dataset
            Site Name 1
          Site Attribute Hillbrook
            File Name C:\Users\Hillbrook.HILLBROOK\Documents\MetroCount\MTE 4.06\Data\1 0 2019-05-20 0918.EC0
             File Type Plus
             Algorithm Factory default axle
           Description Hillbrook main entrance
                 Lane 0
              Direction:6
         Direction Text 6 - West bound A]B, East bound B]A.
           Layout Text Axle sensors - Paired (Class/Speed/Count)
           Setup Time 2019-04-15T13:10:07
            Start Time 2019-04-15T13:10:07
           Finish Time 2019-05-20T09:17:07
              Operator BS
         Configuration 00000000 80 00 14 6a 6a 00 00 00 00 00 , Standard
Profile
                 Name Default Profile
                  Title MetroCount Traffic Executive
         Graphic Logo
               Header
                Footer
           Percentile 1:85
           Percentile 2 95
                 Pace 10
            Filter Start 2019-05-15T01:00:00
             Filter End 2019-05-15T23:00:00
         Class Scheme Scheme F3
            Low Speed 4
           High Speed 100
          Posted Limit 40
          Speed Limits 40 40 40 40 40 40 40 40 40 40
            Separation: 0.000
       Separation Type Headway
             Direction North East South West
     Encoded Direction 15
Column
                       24-hour time (0000 - 2359)
Time
Total
                       Number in time step
 Cls 1
                       Class totals
 CIs 2
                       Class totals
Cls 3
                       Class totals
 Cls 4
                       Class totals
CIs 5
                       Class totals
 CIs 6
                       Class totals
 CIs 7
                       Class totals
CIs 8
                       Class totals
 CIs 9
                       Class totals
 Cls 10
                       Class totals
 Cls 11
                       Class totals
 Cls 12
                       Class totals
```

Wednesday, May 15, 2019

	Time	Total	Cls	Cls 2	Cls 3	Cls 4	Cls	Cls	CIs 7	Cis	Cls	Cls 10	Cls 11	Cis 12	Cis 13	Mean	Vpp 85
				*	•		•	•	1	•	3	10	11	12	13		93
0100		0	0	0	0	0	0	0	0	0	0	0	0	0	0		-
0200		0	0	0	0	0	0	0	0	0	0	0	0	0	0 -		-
0300		1	0	1	0	0	0	0	0	0	0	0	0	0	0	8,8	_
0400		0	0	0	0	0	0	0	0	0	0	0	0	0	0 -		-
0500		2	0	2	0	0	0	0	0	0	0	0	0	0	0	7.9	_
0600		8	0	5	2	0	0	1	0	0	0	0	0	0	0	11.3	-
0700		184	2	137	35	3	1	2	4	0	0	0	0	0	0	10.2	12.3
0800		128	0	104	19	0	0	4	1	0	0	0	0	0	0	12.4	15
0900		23	0	20	3	0	0	0	0	0	0	0	0	0	0	10.6	13
1000		19	0	16	.1	0	1	0	1	0	0	0	0	0	0	10.5	12.3
1100		19	0	15	1	0	2	0	1	0	0	0	0	0	0	11	13
1200		21	1	15	3	0	1	0	1	0	0	0	0	0	0	11.1	13.2
1300		25	0	20	3	1	1	0	0	0	0	0	0	0	0	11.9	13.6
1400		74	0	64	9	0	0	1	0	0	0	0	0	0	0	9.7	11.6
1500		163	1	146	9	3	1	0	3	0	0	0	0	0	0	10.2	12.3
1600		69	1	62	2	1	0	1	2	0	0	0	0	0	0	11.3	13.4
1700		24	0	21	1	2	0	0	0	0	0	0	0	0	0	12.1	15
1800		0	0	0	0	0	0	0	0	0	0	0	0	0	0 -		
1900		0	0	0	0	0	0	0	0	0	0	0	0	0	0 -		
2000		0	0	0	0	0	0	0	0	0	0	0	0	0	0 -		
2100		1	0	1	0	0	0	0	0	0	0	0	0	0	0	6.8 -	
2200		0	0	0	0	0	0	0	0	0	0	0	0	0	0 -		
07-19		749	5	620	86	10	7	8	13	0	0	0	0	0	0	10.8	13.2
06-22		758	5	626	88	10	7	9	13	0	0	0	0	0	0	10.8	13.2
06-00		758	5	626	88	10	7	9	13	0		0	0	0	0	10.8	13.2
00-00		761	5	629	88	10	7	9	13	0	0	0	0	0	0	10.8	13.2

Grand Total

Time	Total	Cls 1	Cls 2	CIs 3	Cln 4	Cls 5	CIs 6	Cls 7	Cls 8	Cls 9	Cls 10	CIs 11	CIs 12	Cls 13	Mean	Vpp 85
	761	5	629	88	10	7	9	13	0	0	0	Ò	6	0	44.4	13.2

		. 8		