



Memorandum

Date: October 3, 2018
Project: LGA004-5

To: Mr. Jessy Pu
Traffic Engineer - Town of Los Gatos
From: Mark Spencer
mspencer@w-trans.com
Nick Bleich
nbleich@w-trans.com

Subject: Hillbrook School Monitoring for Planning Commission – Fall 2018

W-Trans has initiated the 2018 – 2019 traffic monitoring of Hillbrook School in Los Gatos. We have verified the functionality of the Sensys system and Hillbrook School has ensured that the backup pneumatic tube counters are functioning properly. In July 2018, W-Trans confirmed with Hillbrook School that Sensys counters were calibrated and measured to be in proper working condition. Sensys staff performed a validation of the count system and concluded that the daily counts are showing between 97% and 99.75% accuracy. The Sensys sensors are self-calibrating and self-tuning and are upgraded remotely as new software is released.

W-Trans recently conducted three-day video counts (24 hours per count), manually counted from the video recording, at the location of the Sensys counters on September 7th, 11th, and 13th. The purpose of this memo is to summarize the results of the manual counts and compare the data to Sensys data for the same time period. The average difference between the video counts and the Sensys counts is 0.97% and on no day was the difference between the video counts and the Sensys counts greater than four-percent, less than the five-percent threshold outlined in the Conditional Use Permit. The number of trips did not exceed the Conditional Use Permit maximum number of trips during the data collection period.

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 20 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 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 programmed 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.

24-hour Manual Counts and Observations

For the 2018 Fall Trimester, traffic counts were obtained on Marchmont Drive on September 7th, September 11th, and September 13th. These dates were selected to cover a variety of on-campus activities. On Friday September 7th, Hillbrook School had their All School Family Fun Night, an exception day as noted by Hillbrook School at the beginning of the school year. Tuesday September 11th was a typical school day with no on-campus events scheduled. Thursday September 13th was Back to School Night and an exception day. Hillbrook School is not hosting any on-campus sporting events this school year due to construction activities. Due to the lack of scheduled on-campus sporting events, traffic counts were collected on a second exception day in lieu of a sporting event. This deviation from the count plan was discussed with and approved by Town staff.

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 all three days; therefore, the Sensys counts compared to the video counts on those days are the doubled counts from the Exit A sensor. The raw Sensys data and video counts are attached. The manual counts were then compared to the Sensys data for the same time period in Table 1.

Table 1 – Summary of 24-Hour Counts for Fall Trimester 2018

Date	Day of the Week	Counts (# of Vehicles)		Summary of Counts	
		Video	Sensys	Percent Difference	Difference in Trips
09/07/18	Friday	753	782	3.78%	29
09/11/18	Tuesday	721	694	3.82%	27
09/13/18	Thursday	711	688	3.28%	23
Average		728	721	0.97%	7

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 caps.

Conclusions

- The video counts and the Sensys counts, on average, were 0.97% different. The difference between the video counts and the Sensys counts was less than four-percent on each day. Additionally, the total number of trips did not exceed the Conditional Use Permit maximum number of trips.
- The Sensys system and MetroCount backup system are functioning properly, as of September 18, 2018.

- During the two weeks of the Fall Trimester, Hillbrook School has not exceeded the maximum number of daily trips (880) even on one exception day. Attached, in Table 2, is the daily summary of Sensys counts through September 18, 2018.

Table 2 – Daily Sensys Count Summary

Date	Day of the Week	Sensys Counts (# of Vehicles)		Summary of Sensys Counts		Notes
		Exit A	Exit B	Percent Difference	Daily Trips	
08/29/18	Wednesday	220	220	0.0%	440	
08/30/18	Thursday	297	287	3.4%	594	
08/31/18	Friday	323	305	5.7%	646	
09/01/18	Saturday	15	18	18.2%	36	
09/02/18	Sunday	18	17	5.7%	36	
09/03/18	Monday	20	21	4.9%	42	
09/04/18	Tuesday	352	338	4.1%	704	
09/05/18	Wednesday	310	303	2.3%	620	
09/06/18	Thursday	321	316	1.6%	642	
09/07/18	Friday	391	368	6.1%	782	Exception Day
09/08/18	Saturday	27	23	16.0%	54	
09/09/18	Sunday	18	21	15.4%	42	
09/10/18	Monday	317	305	3.9%	634	
09/11/18	Tuesday	347	340	2.0%	694	
09/12/18	Wednesday	285	270	5.4%	570	
09/13/18	Thursday	344	336	2.4%	688	Exception Day
09/14/18	Friday	328	307	6.6%	656	
09/15/18	Saturday	14	13	7.4%	28	
09/16/18	Sunday	21	16	27.0%	42	
09/17/18	Monday	336	327	2.7%	672	
09/18/18	Tuesday	358	343	4.3%	716	

Note: **Green Text** = value below conditional use permit threshold

MES/nfb/LGA004-5.M5

Attachments: Fall Trimester Video Count Summary
Sensys Data Download for Comparison

Hillbrook School Driveway In and Out
 Friday, September 7, 2018

Lights		
Time	In	Out
0:00	0	0
0:15	0	0
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	0	0
3:15	0	0
3:30	0	0
3:45	0	0
4:00	0	0
4:15	1	1
4:30	0	0
4:45	0	0
5:00	0	0
5:15	0	0
5:30	1	0
5:45	2	0
6:00	1	0
6:15	2	0
6:30	2	1
6:45	1	0
7:00	3	0
7:15	16	0
7:30	20	5
7:45	65	34
8:00	11	34
8:15	3	5
8:30	3	3
8:45	1	5
9:00	1	0
9:15	5	1
9:30	1	1
9:45	2	2
10:00	0	3
10:15	2	1
10:30	2	2
10:45	2	4
11:00	3	4
11:15	1	2
11:30	6	3
11:45	1	2
12:00	3	1
12:15	1	3
12:30	2	2
12:45	4	3
13:00	1	2
13:15	2	1
13:30	1	0
13:45	1	1
14:00	4	0
14:15	3	3
14:30	10	2
14:45	29	6
15:00	25	56
15:15	3	7
15:30	6	17
15:45	7	9
16:00	3	6
16:15	5	0
16:30	1	3
16:45	6	2
17:00	13	2
17:15	9	1
17:30	4	0
17:45	9	3
18:00	8	2
18:15	1	2
18:30	4	0
18:45	0	2
19:00	0	0
19:15	3	2
19:30	3	5
19:45	4	17
20:00	1	30
20:15	0	13
20:30	0	4
20:45	0	2
21:00	0	10
21:15	0	2
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
23:15	0	0
23:30	0	0
23:45	0	0
Total	334	334

Heavies		
Time	In	Out
0:00	0	0
0:15	0	0
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	0	0
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	0	0
7:00	1	1
7:15	1	0
7:30	0	1
7:45	4	1
8:00	0	3
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	1	0
10:30	1	1
10:45	0	0
11:00	1	0
11:15	0	1
11:30	2	0
11:45	0	0
12:00	0	0
12:15	0	0
12:30	0	0
12:45	0	0
13:00	0	1
13:15	0	0
13:30	0	0
13:45	0	0
14:00	1	0
14:15	0	0
14:30	3	0
14:45	0	0
15:00	1	2
15:15	0	2
15:30	1	0
15:45	1	1
16:00	0	2
16:15	0	0
16:30	0	0
16:45	2	0
17:00	1	3
17:15	2	3
17:30	1	1
17:45	1	1
18:00	2	1
18:15	1	2
18:30	2	1
18:45	1	2
19:00	2	1
19:15	1	2
19:30	2	1
19:45	1	2
20:00	4	1
20:15	1	2
20:30	1	1
20:45	0	0
21:00	0	2
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
23:15	0	0
23:30	0	0
23:45	0	0
Total	43	42

753 Total Trips

Hillbrook School Driveway In and Out
 Tuesday, September 11, 2018
 IDAX Data Solutions

Lights		
Time	In	Out
0:00	0	0
0:15	0	0
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	0	0
3:15	0	0
3:30	0	0
3:45	0	0
4:00	1	0
4:15	0	1
4:30	0	0
4:45	1	1
5:00	0	0
5:15	1	0
5:30	0	0
5:45	1	0
6:00	2	0
6:15	5	0
6:30	3	0
6:45	6	1
7:00	7	1
7:15	23	1
7:30	27	3
7:45	61	28
8:00	27	33
8:15	6	10
8:30	4	2
8:45	6	3
9:00	2	3
9:15	1	2
9:30	2	1
9:45	2	16
10:00	0	3
10:15	2	8
10:30	1	0
10:45	3	0
11:00	3	1
11:15	1	1
11:30	1	1
11:45	1	3
12:00	0	1
12:15	1	1
12:30	1	3
12:45	4	3
13:00	1	8
13:15	1	0
13:30	2	2
13:45	1	2
14:00	2	2
14:15	4	1
14:30	9	3
14:45	40	8
15:00	23	67
15:15	5	7
15:30	4	10
15:45	6	14
16:00	3	16
16:15	10	8
16:30	12	23
16:45	5	16
17:00	3	8
17:15	0	4
17:30	2	4
17:45	2	4
18:00	0	0
18:15	0	0
18:30	0	1
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	2
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
23:15	0	0
23:30	0	0
23:45	0	0
Total	341	341

Heavies		
Time	In	Out
0:00	0	0
0:15	0	0
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	0	0
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	0	0
7:00	0	0
7:15	0	0
7:30	0	0
7:45	4	3
8:00	0	1
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	2	0
10:00	2	2
10:15	0	0
10:30	0	1
10:45	1	1
11:00	0	1
11:15	0	0
11:30	0	0
11:45	0	0
12:00	0	0
12:15	0	0
12:30	1	0
12:45	0	1
13:00	0	0
13:15	0	0
13:30	0	0
13:45	0	1
14:00	1	1
14:15	0	0
14:30	3	0
14:45	1	0
15:00	0	4
15:15	0	0
15:30	1	0
15:45	0	1
16:00	0	0
16:15	1	1
16:30	0	0
16:45	1	1
17:00	0	0
17:15	1	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
23:15	0	0
23:30	0	0
23:45	0	0
Total	19	20

721 Total Trips

Hillbrook School Driveway In and Out
 Thursday, September 13, 2018
 IDAX Data Solutions

Lights		
Time	In	Out
0:00	0	0
0:15	0	0
0:30	0	0
0:45	0	0
1:00	0	0
1:15	0	0
1:30	0	0
1:45	1	1
2:00	1	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	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	2	0
6:00	2	0
6:15	2	0
6:30	3	0
6:45	1	1
7:00	5	1
7:15	15	2
7:30	13	3
7:45	57	27
8:00	24	30
8:15	4	13
8:30	2	3
8:45	4	5
9:00	3	2
9:15	0	0
9:30	0	1
9:45	1	0
10:00	1	2
10:15	2	1
10:30	2	4
10:45	0	1
11:00	2	0
11:15	2	0
11:30	2	3
11:45	0	1
12:00	2	1
12:15	2	2
12:30	3	2
12:45	3	1
13:00	1	2
13:15	2	3
13:30	0	3
13:45	0	0
14:00	1	0
14:15	5	0
14:30	12	3
14:45	24	9
15:00	27	57
15:15	9	13
15:30	0	3
15:45	7	3
16:00	3	4
16:15	4	3
16:30	0	2
16:45	4	5
17:00	3	1
17:15	3	2
17:30	8	6
17:45	7	0
18:00	11	2
18:15	5	2
18:30	2	0
18:45	3	3
19:00	1	2
19:15	5	12
19:30	0	7
19:45	0	4
20:00	1	7
20:15	1	6
20:30	0	5
20:45	2	5
21:00	1	24
21:15	0	4
21:30	0	2
21:45	0	0
22:00	0	0
22:15	0	0
22:30	0	2
22:45	0	0
23:00	0	0
23:15	0	0
23:30	0	0
23:45	0	0
Total	313	313

Heavies		
Time	In	Out
0:00	0	0
0:15	0	0
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	0	0
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	0	0
7:00	0	0
7:15	0	0
7:30	0	0
7:45	4	1
8:00	0	3
8:15	0	0
8:30	0	0
8:45	0	0
9:00	2	2
9:15	1	0
9:30	0	1
9:45	1	1
10:00	0	0
10:15	0	0
10:30	1	0
10:45	0	0
11:00	0	1
11:15	0	0
11:30	0	0
11:45	0	0
12:00	1	0
12:15	0	0
12:30	0	0
12:45	0	0
13:00	0	0
13:15	0	0
13:30	0	0
13:45	0	0
14:00	0	0
14:15	2	0
14:30	2	0
14:45	0	0
15:00	0	4
15:15	0	0
15:30	1	0
15:45	0	1
16:00	1	0
16:15	0	1
16:30	0	0
16:45	1	1
17:00	3	2
17:15	1	2
17:30	1	1
17:45	2	1
18:00	1	2
18:15	2	1
18:30	1	2
18:45	2	2
19:00	2	1
19:15	2	2
19:30	1	1
19:45	1	2
20:00	2	2
20:15	1	1
20:30	1	1
20:45	1	1
21:00	1	1
21:15	1	1
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
23:15	0	0
23:30	0	0
23:45	0	0
Total	43	42

711 Total Trips

Results for Sensor Zone 'ExitA' in AP: 'APEG 9545'

Start Date: 09/07/2018 00:00 PDT

End Date: 09/08/2018 00:00 PDT

Reporting interval: 15 minutes, Speed Average: Averaged by car

Time (Beginning of Interval)	Occup (%)	Volume	Median Speed (mph)	Avg Speed (mph)
09/07/2018 00:00	0	0	n/a	n/a
09/07/2018 00:15	0	0	n/a	n/a
09/07/2018 00:30	0	0	n/a	n/a
09/07/2018 00:45	0	0	n/a	n/a
09/07/2018 01:00	0	0	n/a	n/a
09/07/2018 01:15	0	0	n/a	n/a
09/07/2018 01:30	0	0	n/a	n/a
09/07/2018 01:45	0	0	n/a	n/a
09/07/2018 02:00	0	0	n/a	n/a
09/07/2018 02:15	0	0	n/a	n/a
09/07/2018 02:30	0	0	n/a	n/a
09/07/2018 02:45	0	0	n/a	n/a
09/07/2018 03:00	0	0	n/a	n/a
09/07/2018 03:15	0	0	n/a	n/a
09/07/2018 03:30	0	0	n/a	n/a
09/07/2018 03:45	0	0	n/a	n/a
09/07/2018 04:00	0	0	n/a	n/a
09/07/2018 04:15	0.14	1	n/a	n/a
09/07/2018 04:30	0	0	n/a	n/a
09/07/2018 04:45	0	0	n/a	n/a
09/07/2018 05:00	0	0	n/a	n/a
09/07/2018 05:15	0	0	n/a	n/a
09/07/2018 05:30	0	0	n/a	n/a
09/07/2018 05:45	0	0	n/a	n/a
09/07/2018 06:00	0	0	n/a	n/a
09/07/2018 06:15	0	0	n/a	n/a
09/07/2018 06:30	0.08	1	n/a	n/a
09/07/2018 06:45	0	0	n/a	n/a
09/07/2018 07:00	0.64	2	n/a	n/a
09/07/2018 07:15	0	0	n/a	n/a
09/07/2018 07:30	0.73	6	n/a	n/a
09/07/2018 07:45	7.05	35	n/a	n/a
09/07/2018 08:00	5	40	n/a	n/a
09/07/2018 08:15	0.94	8	n/a	n/a
09/07/2018 08:30	0.37	3	n/a	n/a
09/07/2018 08:45	0.37	4	n/a	n/a
09/07/2018 09:00	0	0	n/a	n/a
09/07/2018 09:15	0.13	1	n/a	n/a
09/07/2018 09:30	0.13	1	n/a	n/a
09/07/2018 09:45	0.44	3	n/a	n/a
09/07/2018 10:00	0.22	4	n/a	n/a
09/07/2018 10:15	0.11	1	n/a	n/a
09/07/2018 10:30	0.54	5	n/a	n/a
09/07/2018 10:45	0.57	4	n/a	n/a
09/07/2018 11:00	0.79	6	n/a	n/a
09/07/2018 11:15	0.26	5	n/a	n/a
09/07/2018 11:30	0.39	3	n/a	n/a
09/07/2018 11:45	0.26	2	n/a	n/a
09/07/2018 12:00	0.12	1	n/a	n/a
09/07/2018 12:15	0.07	1	n/a	n/a
09/07/2018 12:30	0.40	4	n/a	n/a
09/07/2018 12:45	0.32	3	n/a	n/a
09/07/2018 13:00	0.31	2	n/a	n/a
09/07/2018 13:15	0.07	1	n/a	n/a
09/07/2018 13:30	0	0	n/a	n/a
09/07/2018 13:45	0	0	n/a	n/a
09/07/2018 14:00	0	0	n/a	n/a
09/07/2018 14:15	0.24	2	n/a	n/a
09/07/2018 14:30	0.41	2	n/a	n/a
09/07/2018 14:45	0.45	4	n/a	n/a
09/07/2018 15:00	7.50	65	n/a	n/a
09/07/2018 15:15	1.60	9	n/a	n/a
09/07/2018 15:30	1.21	14	n/a	n/a
09/07/2018 15:45	1.86	10	n/a	n/a
09/07/2018 16:00	1.91	11	n/a	n/a
09/07/2018 16:15	0	0	n/a	n/a
09/07/2018 16:30	1.05	4	n/a	n/a
09/07/2018 16:45	0.19	2	n/a	n/a
09/07/2018 17:00	1.53	6	n/a	n/a
09/07/2018 17:15	1.58	3	n/a	n/a
09/07/2018 17:30	0.92	3	n/a	n/a
09/07/2018 17:45	0.72	4	n/a	n/a
09/07/2018 18:00	0.54	3	n/a	n/a
09/07/2018 18:15	1.16	4	n/a	n/a
09/07/2018 18:30	0.50	1	n/a	n/a
09/07/2018 18:45	0.81	2	n/a	n/a
09/07/2018 19:00	1.07	3	n/a	n/a
09/07/2018 19:15	1.24	5	n/a	n/a
09/07/2018 19:30	1.01	6	n/a	n/a
09/07/2018 19:45	3.51	18	n/a	n/a
09/07/2018 20:00	5.24	28	n/a	n/a
09/07/2018 20:15	3.50	17	n/a	n/a
09/07/2018 20:30	1.20	6	n/a	n/a
09/07/2018 20:45	0.08	2	n/a	n/a
09/07/2018 21:00	1.33	9	n/a	n/a
09/07/2018 21:15	0.74	0	n/a	n/a
09/07/2018 21:30	2.69	1	n/a	n/a
09/07/2018 21:45	0	0	n/a	n/a
09/07/2018 22:00	0	0	n/a	n/a
09/07/2018 22:15	0	0	n/a	n/a
09/07/2018 22:30	0	0	n/a	n/a
09/07/2018 22:45	0	0	n/a	n/a
09/07/2018 23:00	0	0	n/a	n/a
09/07/2018 23:15	0	0	n/a	n/a
09/07/2018 23:30	0	0	n/a	n/a
09/07/2018 23:45	0	0	n/a	n/a
Grand Total	0.69	391 ---	n/a	

782 Total Trips

Results for Sensor Zone 'ExitA' in AP: 'APEG 9545'

Start Date: 09/11/2018 00:00 PDT

End Date: 09/12/2018 00:00 PDT

Reporting interval: 15 minutes, Speed Average: Averaged by car

Time (Beginning of Interval)	Occup (%)	Volume	Median Speed (mph)	Avg Speed (mph)
09/11/2018 00:00	0	0	n/a	n/a
09/11/2018 00:15	0	0	n/a	n/a
09/11/2018 00:30	0	0	n/a	n/a
09/11/2018 00:45	0	0	n/a	n/a
09/11/2018 01:00	0	0	n/a	n/a
09/11/2018 01:15	0	0	n/a	n/a
09/11/2018 01:30	0	0	n/a	n/a
09/11/2018 01:45	0	0	n/a	n/a
09/11/2018 02:00	0	0	n/a	n/a
09/11/2018 02:15	0	0	n/a	n/a
09/11/2018 02:30	0	0	n/a	n/a
09/11/2018 02:45	0	0	n/a	n/a
09/11/2018 03:00	0	0	n/a	n/a
09/11/2018 03:15	0	0	n/a	n/a
09/11/2018 03:30	0	0	n/a	n/a
09/11/2018 03:45	0	0	n/a	n/a
09/11/2018 04:00	0	0	n/a	n/a
09/11/2018 04:15	0.12	1	n/a	n/a
09/11/2018 04:30	0	0	n/a	n/a
09/11/2018 04:45	0.13	1	n/a	n/a
09/11/2018 05:00	0	0	n/a	n/a
09/11/2018 05:15	0	0	n/a	n/a
09/11/2018 05:30	0	0	n/a	n/a
09/11/2018 05:45	0	0	n/a	n/a
09/11/2018 06:00	0	0	n/a	n/a
09/11/2018 06:15	0	0	n/a	n/a
09/11/2018 06:30	0	0	n/a	n/a
09/11/2018 06:45	0.06	1	n/a	n/a
09/11/2018 07:00	0.14	1	n/a	n/a
09/11/2018 07:15	0.07	1	n/a	n/a
09/11/2018 07:30	0.28	3	n/a	n/a
09/11/2018 07:45	5.02	31	n/a	n/a
09/11/2018 08:00	3.47	32	n/a	n/a
09/11/2018 08:15	1.12	10	n/a	n/a
09/11/2018 08:30	0.26	2	n/a	n/a
09/11/2018 08:45	0.14	2	n/a	n/a
09/11/2018 09:00	0.10	1	n/a	n/a
09/11/2018 09:15	0.16	2	n/a	n/a
09/11/2018 09:30	0.11	1	n/a	n/a
09/11/2018 09:45	1.25	15	n/a	n/a
09/11/2018 10:00	0.36	5	n/a	n/a
09/11/2018 10:15	0.73	8	n/a	n/a
09/11/2018 10:30	0.35	2	n/a	n/a
09/11/2018 10:45	0.41	1	n/a	n/a
09/11/2018 11:00	0.24	3	n/a	n/a
09/11/2018 11:15	0.12	1	n/a	n/a
09/11/2018 11:30	0.11	1	n/a	n/a
09/11/2018 11:45	0.28	3	n/a	n/a
09/11/2018 12:00	0.06	1	n/a	n/a
09/11/2018 12:15	0.14	1	n/a	n/a
09/11/2018 12:30	0.31	3	n/a	n/a
09/11/2018 12:45	1	4	n/a	n/a
09/11/2018 13:00	0.61	6	n/a	n/a
09/11/2018 13:15	0	0	n/a	n/a
09/11/2018 13:30	0.50	3	n/a	n/a
09/11/2018 13:45	0.17	1	n/a	n/a
09/11/2018 14:00	0.21	2	n/a	n/a
09/11/2018 14:15	0.15	1	n/a	n/a
09/11/2018 14:30	0.25	3	n/a	n/a
09/11/2018 14:45	0.96	8	n/a	n/a
09/11/2018 15:00	9.37	71	n/a	n/a
09/11/2018 15:15	0.51	5	n/a	n/a
09/11/2018 15:30	0.98	8	n/a	n/a
09/11/2018 15:45	1.72	14	n/a	n/a
09/11/2018 16:00	1.42	17	n/a	n/a
09/11/2018 16:15	1.16	7	n/a	n/a
09/11/2018 16:30	2.95	25	n/a	n/a
09/11/2018 16:45	1.73	17	n/a	n/a
09/11/2018 17:00	0.45	5	n/a	n/a
09/11/2018 17:15	0.78	5	n/a	n/a
09/11/2018 17:30	0.28	4	n/a	n/a
09/11/2018 17:45	5.77	3	n/a	n/a
09/11/2018 18:00	0	0	n/a	n/a
09/11/2018 18:15	0	0	n/a	n/a
09/11/2018 18:30	0.10	1	n/a	n/a
09/11/2018 18:45	0	0	n/a	n/a
09/11/2018 19:00	0	0	n/a	n/a
09/11/2018 19:15	0	0	n/a	n/a
09/11/2018 19:30	0	0	n/a	n/a
09/11/2018 19:45	0	0	n/a	n/a
09/11/2018 20:00	0.21	1	n/a	n/a
09/11/2018 20:15	0	0	n/a	n/a
09/11/2018 20:30	2.76	1	n/a	n/a
09/11/2018 20:45	0	0	n/a	n/a
09/11/2018 21:00	0	0	n/a	n/a
09/11/2018 21:15	0	0	n/a	n/a
09/11/2018 21:30	0.56	2	n/a	n/a
09/11/2018 21:45	0	0	n/a	n/a
09/11/2018 22:00	0	0	n/a	n/a
09/11/2018 22:15	0	0	n/a	n/a
09/11/2018 22:30	0	0	n/a	n/a
09/11/2018 22:45	0	0	n/a	n/a
09/11/2018 23:00	0	0	n/a	n/a
09/11/2018 23:15	0	0	n/a	n/a
09/11/2018 23:30	0	0	n/a	n/a
09/11/2018 23:45	0	0	n/a	n/a
Grand Total	0.52	347	---	n/a

694 Total Trips

Results for Sensor Zone 'ExitA' in AP: 'APEG 9545'

Start Date: 09/13/2018 00:00 PDT

End Date: 09/14/2018 00:00 PDT

Reporting interval: 15 minutes, Speed Average: Averaged by car

Time (Beginning of Interval)	Occup (%)	Volume	Median Speed (mph)	Avg Speed (mph)
09/13/2018 00:00	0	0	n/a	n/a
09/13/2018 00:15	0	0	n/a	n/a
09/13/2018 00:30	0	0	n/a	n/a
09/13/2018 00:45	0	0	n/a	n/a
09/13/2018 01:00	0	0	n/a	n/a
09/13/2018 01:15	0	0	n/a	n/a
09/13/2018 01:30	0	0	n/a	n/a
09/13/2018 01:45	0.99	2	n/a	n/a
09/13/2018 02:00	0.17	1	n/a	n/a
09/13/2018 02:15	0	0	n/a	n/a
09/13/2018 02:30	0	0	n/a	n/a
09/13/2018 02:45	0	0	n/a	n/a
09/13/2018 03:00	0	0	n/a	n/a
09/13/2018 03:15	0	0	n/a	n/a
09/13/2018 03:30	0	0	n/a	n/a
09/13/2018 03:45	0	0	n/a	n/a
09/13/2018 04:00	0	0	n/a	n/a
09/13/2018 04:15	0	0	n/a	n/a
09/13/2018 04:30	0	0	n/a	n/a
09/13/2018 04:45	0	0	n/a	n/a
09/13/2018 05:00	0	0	n/a	n/a
09/13/2018 05:15	0	0	n/a	n/a
09/13/2018 05:30	0	0	n/a	n/a
09/13/2018 05:45	0	0	n/a	n/a
09/13/2018 06:00	0	0	n/a	n/a
09/13/2018 06:15	0	0	n/a	n/a
09/13/2018 06:30	0	0	n/a	n/a
09/13/2018 06:45	0.07	1	n/a	n/a
09/13/2018 07:00	0.11	1	n/a	n/a
09/13/2018 07:15	0.17	2	n/a	n/a
09/13/2018 07:30	0.25	3	n/a	n/a
09/13/2018 07:45	4.25	31	n/a	n/a
09/13/2018 08:00	5.10	34	n/a	n/a
09/13/2018 08:15	1.36	15	n/a	n/a
09/13/2018 08:30	0.33	3	n/a	n/a
09/13/2018 08:45	0.61	5	n/a	n/a
09/13/2018 09:00	0.76	4	n/a	n/a
09/13/2018 09:15	0	0	n/a	n/a
09/13/2018 09:30	0.37	1	n/a	n/a
09/13/2018 09:45	0.11	2	n/a	n/a
09/13/2018 10:00	0.20	2	n/a	n/a
09/13/2018 10:15	0.09	1	n/a	n/a
09/13/2018 10:30	0.49	4	n/a	n/a
09/13/2018 10:45	0.65	2	n/a	n/a
09/13/2018 11:00	0.83	4	n/a	n/a
09/13/2018 11:15	0	0	n/a	n/a
09/13/2018 11:30	0.53	4	n/a	n/a
09/13/2018 11:45	0	0	n/a	n/a
09/13/2018 12:00	0.09	3	n/a	n/a
09/13/2018 12:15	0.24	2	n/a	n/a
09/13/2018 12:30	0.32	2	n/a	n/a
09/13/2018 12:45	0.15	1	n/a	n/a
09/13/2018 13:00	0.21	2	n/a	n/a
09/13/2018 13:15	0.52	4	n/a	n/a
09/13/2018 13:30	0.26	3	n/a	n/a
09/13/2018 13:45	0	0	n/a	n/a
09/13/2018 14:00	0	0	n/a	n/a
09/13/2018 14:15	0	0	n/a	n/a
09/13/2018 14:30	0.36	3	n/a	n/a
09/13/2018 14:45	1.45	9	n/a	n/a
09/13/2018 15:00	9.28	68	n/a	n/a
09/13/2018 15:15	0.80	10	n/a	n/a
09/13/2018 15:30	0.30	3	n/a	n/a
09/13/2018 15:45	0.38	2	n/a	n/a
09/13/2018 16:00	0.50	4	n/a	n/a
09/13/2018 16:15	0.55	3	n/a	n/a
09/13/2018 16:30	0.27	3	n/a	n/a
09/13/2018 16:45	0.70	5	n/a	n/a
09/13/2018 17:00	0.74	3	n/a	n/a
09/13/2018 17:15	0.78	4	n/a	n/a
09/13/2018 17:30	1.40	6	n/a	n/a
09/13/2018 17:45	0.33	1	n/a	n/a
09/13/2018 18:00	1.19	3	n/a	n/a
09/13/2018 18:15	0.69	3	n/a	n/a
09/13/2018 18:30	0.75	2	n/a	n/a
09/13/2018 18:45	0.70	3	n/a	n/a
09/13/2018 19:00	0.40	4	n/a	n/a
09/13/2018 19:15	1.44	10	n/a	n/a
09/13/2018 19:30	0.93	5	n/a	n/a
09/13/2018 19:45	1.19	6	n/a	n/a
09/13/2018 20:00	1.99	8	n/a	n/a
09/13/2018 20:15	0.81	5	n/a	n/a
09/13/2018 20:30	1.34	4	n/a	n/a
09/13/2018 20:45	0.67	5	n/a	n/a
09/13/2018 21:00	1.62	15	n/a	n/a
09/13/2018 21:15	0.56	4	n/a	n/a
09/13/2018 21:30	1.22	2	n/a	n/a
09/13/2018 21:45	0	0	n/a	n/a
09/13/2018 22:00	0	0	n/a	n/a
09/13/2018 22:15	0	0	n/a	n/a
09/13/2018 22:30	0.58	2	n/a	n/a
09/13/2018 22:45	0	0	n/a	n/a
09/13/2018 23:00	0	0	n/a	n/a
09/13/2018 23:15	0	0	n/a	n/a
09/13/2018 23:30	0	0	n/a	n/a
09/13/2018 23:45	0	0	n/a	n/a
Grand Total	0.55	344 ---	n/a	

688 Total Trips