



# KIAWAH ISLAND PARKWAY TRAFFIC UPDATE

Town of Kiawah Island

2024



## INTRODUCTION

The Town monitors traffic along the road it maintains, including the Kiawah Island Parkway and Beachwalker Drive. In 2024, the Town contracted with Quality Counts, LLC to conduct traffic counts along the Kiawah Island Parkway as well as Beachwalker Drive for a comprehensive understanding of overall Kiawah Island traffic volumes. These two locations were the approved traffic counting locations by Town Council in May 2024.

# TRAFFIC COUNTING PERIODS



# TRAFFIC COUNTER LOCATIONS

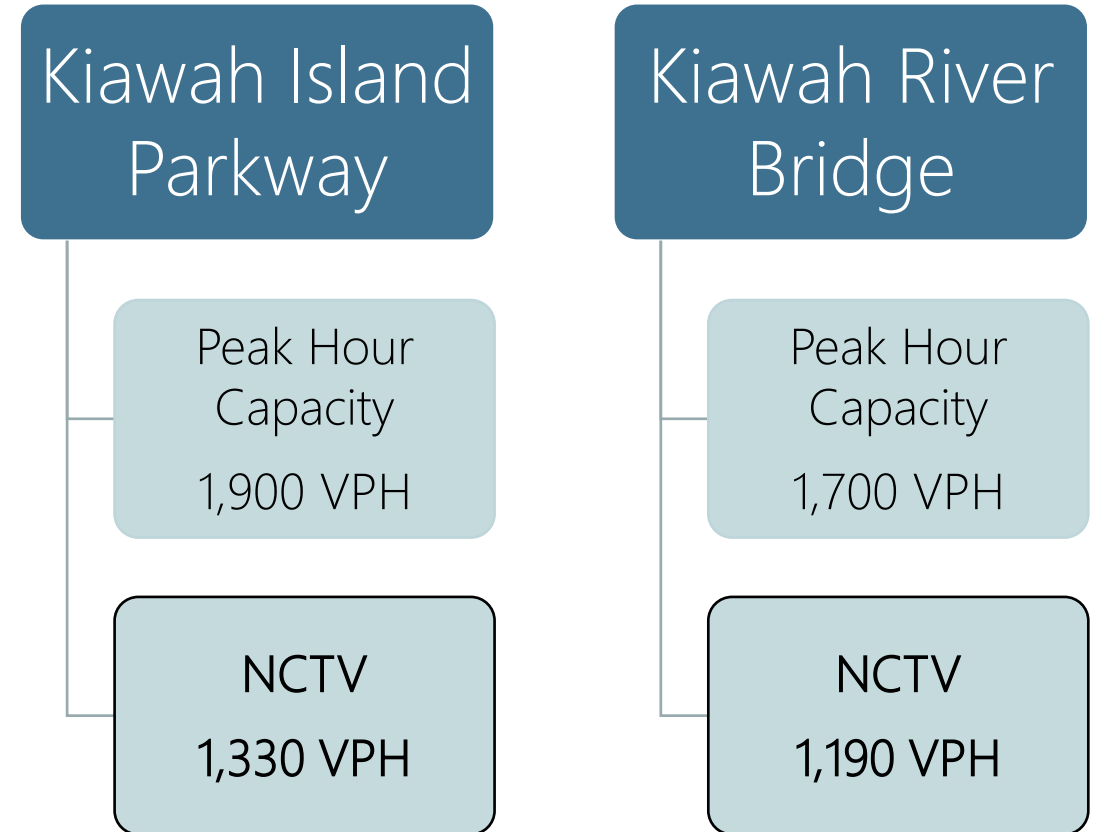


Data was collected by Tube Count and supplemental Video reports.

# EVALUATING TRAFFIC

## Near Capacity Traffic Volume (NCTV)

NCTV represents the point at which 70% peak hour capacity is reached on the Kiawah Island Parkway or Kiawah River Bridge determined by vehicles per hour (VPH). In determining the 70% capacity, the NCTV is evaluated per lane for the Kiawah Island Parkway, or the equivalent of one direction as Kiawah Island Parkway East Bound, or Kiawah Island Parkway West Bound.



# *What happens if the NCTV is reached?* EVALUATING TRAFFIC

## Traffic Volumes Exceed NCTV

NCTV is exceeded for three (3) consecutive days during designated counting periods.

June 1<sup>st</sup> – 14<sup>th</sup>

July 8<sup>th</sup> – 22<sup>nd</sup>

August 17<sup>th</sup> – 31<sup>st</sup>

This does not include peaking volumes due to special events.

## Developed Traffic Mitigation Plan

The Developer submits a traffic mitigation plan to the Town.

The plan shall include measures to reduce the traffic volumes below the NCTV or increase roadway capacity for affected road segments along the Kiawah Island Parkway.

## Implemented Traffic Mitigation

The Town reviews and approves the traffic mitigation plan.

The developer shall be liable for implementing the approved traffic mitigation plan and traffic mitigation measures with construction of improvements beginning within six (6) months.

## Has the NCTV been reached?

As determined by the standards and criteria outlined the Near Capacity Traffic Volume has not been reached.

Overall traffic volumes have relatively remained consistent to marginally increasing compared to previous years. The NCTV has consistently reached approximately 60-65%, with one day peaks occasionally above 70%. **The observed traffic volumes have not met or exceeded the near capacity thresholds for required mitigation measures.**

Some traffic mitigation efforts have taken place absent of the required thresholds being met. Furthermore, the Town has proactively studied the KIP for future traffic impacts.

NCTV

Kiawah Island Parkway 1,330 VPH

Kiawah Island Bridge 1,190 VPH

# SUMMARY OF COLLECTED DATA

Start Time	Mon	Tue	Wed	Thu	Fri	Average Weekday Hourly Traffic	Sat	Sun	Average Week Hourly Traffic	Average Week Profile
	3 Jun 24	4 Jun 24	5 Jun 24	6 Jun 24	7 Jun 24		8 Jun 24	9 Jun 24		
12:00 AM	15	12	18	19	15	16	23	13	16	
01:00 AM	9	8	8	15	12	10	15	12	11	
02:00 AM	5	2	4	5	4	4	4	4	4	
03:00 AM	5	5	2	3	14	6	7	4	6	
04:00 AM	32	40	27	43	50	38	20	17	33	
05:00 AM	108	103	111	111	115	110	104	70	103	
06:00 AM	289	333	338	315	304	316	252	148	283	
07:00 AM	592	584	641	669	594	616	300	194	511	
08:00 AM	<b>736</b>	711	<b>735</b>	<b>705</b>	<b>693</b>	<b>716</b>	493	287	623	
09:00 AM	727	<b>724</b>	677	611	651	678	545	436	<b>624</b>	
10:00 AM	540	507	575	537	573	546	479	405	517	
11:00 AM	537	528	604	604	554	565	<b>555</b>	<b>457</b>	548	
12:00 PM	<b>528</b>	<b>554</b>	<b>562</b>	<b>577</b>	<b>555</b>	<b>555</b>	529	<b>486</b>	<b>542</b>	
01:00 PM	461	548	485	527	547	514	447	374	484	
02:00 PM	441	378	478	505	513	463	482	375	453	
03:00 PM	462	456	486	415	444	453	529	378	453	
04:00 PM	369	348	417	391	398	385	<b>536</b>	<b>335</b>	399	
05:00 PM	319	291	361	376	324	334	434	336	349	
06:00 PM	285	314	303	310	372	317	363	274	317	
07:00 PM	256	232	250	309	297	269	304	243	270	
08:00 PM	183	242	249	308	283	253	279	276	260	
09:00 PM	141	134	204	231	297	201	242	156	201	
10:00 PM	62	73	89	129	166	104	143	56	103	
11:00 PM	26	28	46	40	52	38	34	38	38	
<b>Day Total</b>	7128	7155	7670	7755	7827	7507	7119	5374	7148	
% Weekday Average	95%	95.3%	102.2%	103.3%	104.3%					
% Week Average	99.7%	100.1%	107.3%	108.5%	109.5%	105%	99.6%	75.2%		
AM Peak Volume	8:00 AM 736	9:00 AM 724	8:00 AM 735	8:00 AM 705	8:00 AM 693	8:00 AM 716	11:00 AM 555	11:00 AM 457	9:00 AM 624	
PM Peak Volume	12:00 PM 528	12:00 PM 554	12:00 PM 562	12:00 PM 577	12:00 PM 555	12:00 PM 555	4:00 PM 536	12:00 PM 486	12:00 PM 542	

Comments:

# QC DATA SET EXAMPLE

Counter Location

KIP, East of Old Cedar Lane

Traffic Direction

East Bound

Counting Period

June 1<sup>st</sup> – 14<sup>th</sup>

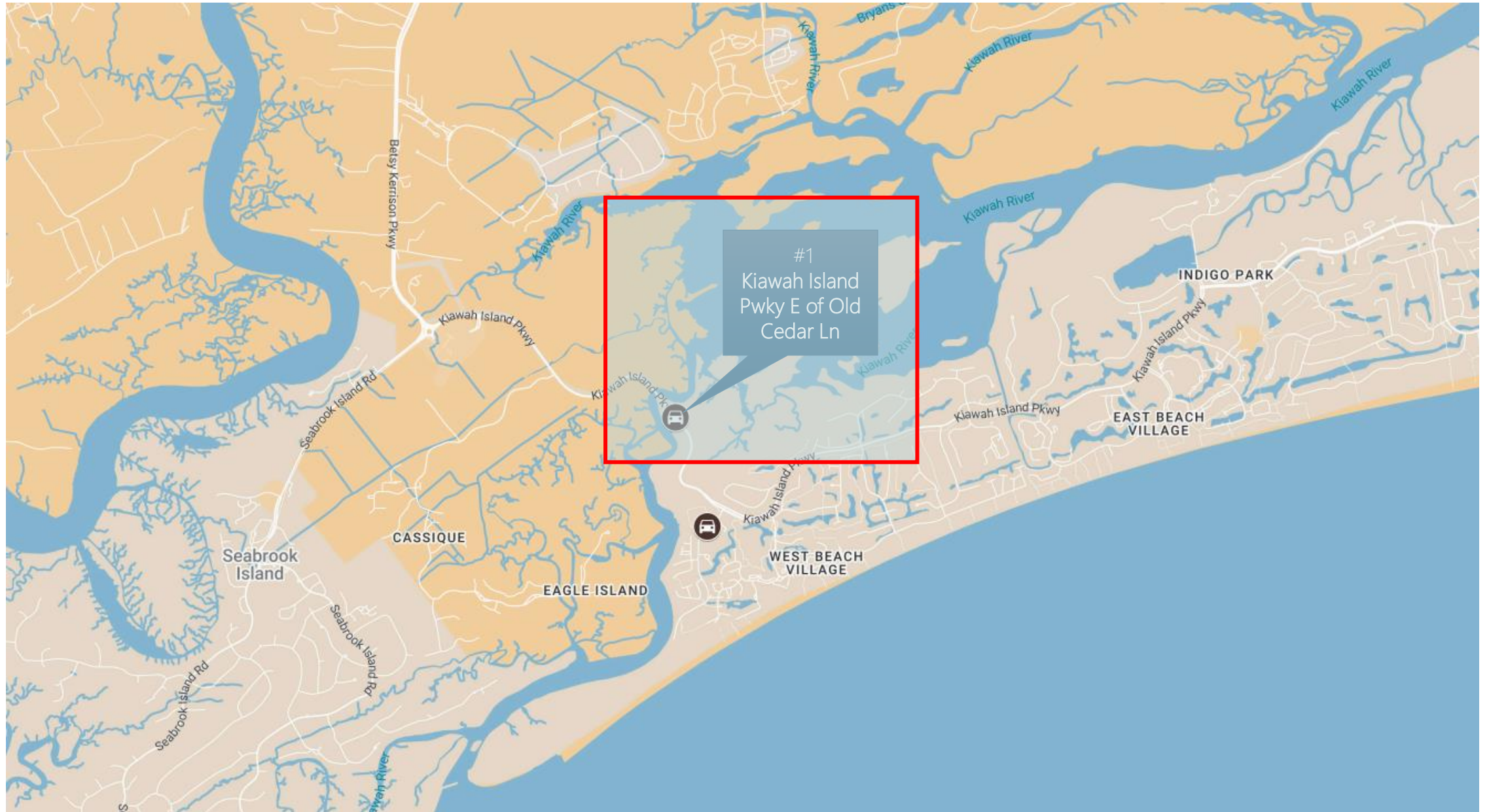
AM / PM Peak Hours

AM / PM Peak Volumes

Metric

Vehicles Per Hour

# TRAFFIC COUNTER LOCATION #1



# KIP TRAFFIC SUMMARY (JUNE)

2024				
#1 KIP E of Old Cedar Lane				% of NCTV
Highest AM Peak Volume				
736 vph	Monday, June 3, 2024	EB	8:00 AM	62%
Highest PM Peak Volume				
792 vph	Wednesday, June 5, 2024	WB	5:00 PM	67%
Highest AM Three Consecutive Day Peak Volume				
736 vph	Monday, June 3, 2024	EB	8:00 AM	62%
724 vph	Tuesday, June 4, 2024	EB	9:00 AM	61%
735 vph	Wednesday, June 5, 2024	EB	8:00 AM	62%
Highest PM Three Consecutive Day Peak Volume				
792 vph	Wednesday, June 5, 2024	WB	5:00 PM	67%
779 vph	Thursday, June 6, 2024	WB	5:00 PM	65%
787 vph	Friday, June 7, 2024	WB	3:00 PM	66%

2023				
#1 KIP E of Old Cedar Lane				% Of NCTV
Highest AM Peak Volume				
789 vph	Friday, June 7, 2024	EB	8:00 AM	66%
Highest PM Peak Volume				
881 vph	Friday, June 7, 2024	WB	5:00 PM	74%
Highest AM Three Consecutive Day Peak Volume				
780 vph	Thursday, June 6, 2024	EB	8:00 AM	66%
789 vph	Friday, June 7, 2024	EB	8:00 AM	66%
746 vph	Saturday, June 8, 2024	EB	8:00 AM	63%
Highest PM Three Consecutive Day Peak Volume				
816 vph	Wednesday, June 5, 2024	WB	5:00 PM	69%
860 vph	Thursday, June 6, 2024	WB	5:00 PM	72%
881 vph	Friday, June 7, 2024	WB	5:00 PM	74%

2022				
#1 KIP E of Old Cedar Lane				% Of NCTV
Highest AM Peak Volume				
735 vph	Monday, June 3, 2024	EB	8:00 AM	62%
Highest PM Peak Volume				
792 vph	Sunday, June 2, 2024	WB	5:00 PM	67%
Highest AM Three Consecutive Day Peak Volume				
705 vph	Saturday, June 1, 2024	EB	8:00 AM	59%
690 vph	Sunday, June 2, 2024	EB	8:00 AM	58%
735 vph	Monday, June 3, 2024	EB	8:00 AM	62%
Highest PM Three Consecutive Day Peak Volume				
773 vph	Saturday, June 1, 2024	WB	5:00 PM	65%
792 vph	Sunday, June 2, 2024	WB	5:00 PM	67%
740 vph	Monday, June 3, 2024	WB	3:00 PM	62%

# KIP TRAFFIC SUMMARY (JULY)

2024				
#1 KIP E of Old Cedar Lane				% of NCTV
Highest AM Peak Volume				
828 vph	Thursday, July 18, 2024	EB	9:00 AM	70%
Highest PM Peak Volume				
800 vph	Friday, July 19, 2024	WB	5:00 PM	67%
Highest AM Three Consecutive Day Peak Volume				
744 vph	Tuesday, July 16, 2024	EB	8:00 AM	63%
694 vph	Wednesday, July 17, 2024	EB	8:00 AM	58%
828 vph	Thursday, July 18, 2024	EB	9:00 AM	70%
Highest PM Three Consecutive Day Peak Volume				
751 vph	Wednesday, July 17, 2024	WB	5:00 PM	63%
800 vph	Thursday, July 18, 2024	WB	5:00 PM	67%
799 vph	Friday, July 19, 2024	WB	3:00 PM	67%

2023				
#1 KIP E of Old Cedar Lane				% Of NCTV
Highest AM Peak Volume				
778 vph	Saturday, July 20, 2024	EB	8:00 AM	65%
Highest PM Peak Volume				
897 vph	Friday, July 19, 2024	WB	5:00 PM	75%
Highest AM Three Consecutive Day Peak Volume				
706 vph	Thursday, July 18, 2024	EB	8:00 AM	59%
702 vph	Friday, July 19, 2024	EB	8:00 AM	59%
778 vph	Saturday, July 20, 2024	EB	8:00 AM	65%
Highest PM Three Consecutive Day Peak Volume				
772 vph	Wednesday, July 17, 2024	WB	5:00 PM	65%
808 vph	Thursday, July 18, 2024	WB	5:00 PM	68%
897 vph	Friday, July 19, 2024	WB	5:00 PM	75%

2022				
#1 KIP E of Old Cedar Lane				% Of NCTV
Highest AM Peak Volume				
720 vph	Friday, July 19, 2024	EB	8:00 AM	61%
Highest PM Peak Volume				
917 vph	Saturday, July 13, 2024	WB	5:00 PM	77%
Highest AM Three Consecutive Day Peak Volume				
652 vph	Thursday, July 18, 2024	EB	8:00 AM	55%
720 vph	Friday, July 19, 2024	EB	8:00 AM	61%
705 vph	Saturday, July 20, 2024	EB	8:00 AM	59%
Highest PM Three Consecutive Day Peak Volume				
765 vph	Friday, July 12, 2024	WB	5:00 PM	64%
917 vph	Saturday, July 13, 2024	WB	5:00 PM	77%
781 vph	Sunday, July 14, 2024	WB	5:00 PM	66%

# KIP TRAFFIC SUMMARY (AUGUST\*)

2024				
#1 KIP E of Old Cedar Lane				% of NCTV
Highest AM Peak Volume				
707 vph	Thursday, August 29, 2024	EB	9:00 AM	59%
Highest PM Peak Volume				
721 vph	Thursday, August 22, 2024	WB	5:00 PM	61%
Highest AM Three Consecutive Day Peak Volume				
586 vph	Wednesday, August 28, 2024	EB	9:00 AM	49%
707 vph	Thursday, August 29, 2024	EB	9:00 AM	59%
652 vph	Friday, August 30, 2024	EB	8:00 AM	55%
Highest PM Three Consecutive Day Peak Volume				
703 vph	Tuesday, August 20, 2024	WB	5:00 PM	59%
705 vph	Wednesday, August 21, 2024	WB	5:00 PM	59%
721 vph	Thursday, August 22, 2024	WB	5:00 PM	61%

2023				
#1 KIP E of Old Cedar Lane				% Of NCTV
Highest AM Peak Volume				
768 vph	Saturday, August 24, 2024	EB	8:00 AM	65%
Highest PM Peak Volume				
752 vph	Thursday, August 29, 2024	WB	5:00 PM	63%
Highest AM Three Consecutive Day Peak Volume				
720 vph	Friday, August 23, 2024	EB	8:00 AM	61%
768 vph	Saturday, August 24, 2024	EB	8:00 AM	65%
690 vph	Sunday, August 25, 2024	EB	8:00 AM	58%
Highest PM Three Consecutive Day Peak Volume				
366 vph	Tuesday, August 27, 2024	WB	5:00 PM	31%
638 vph	Wednesday, August 28, 2024	WB	5:00 PM	54%
752 vph	Thursday, August 29, 2024	WB	5:00 PM	63%

\*No data from 2022 at this location

# TRAFFIC COUNTER LOCATION #2



# BEACHWALKER TRAFFIC SUMMARY (JUNE)

2024			
#2 Beachwalker Drive S of KIP			
Highest AM Peak Volume			
155 vph	Saturday, June 8, 2024	SB	9:00 AM
Highest PM Peak Volume			
140 vph	Tuesday, June 11, 2024	NB	12:00 PM
Highest AM Three Consecutive Day Peak Volume			
126 vph	Friday, June 7, 2024	SB	10:00 AM
155 vph	Saturday, June 8, 2024	SB	9:00 AM
118 vph	Sunday, June 9, 2024	SB	9:00 AM
Highest PM Three Consecutive Day Peak Volume			
108 vph	Wednesday, June 5, 2024	NB	5:00 PM
123 vph	Thursday, June 6, 2024	NB	3:00 PM
114 vph	Friday, June 7, 2024	NB	5:00 PM
110 vph	Wednesday, June 12, 2024	NB	3:00 PM
105 vph	Thursday, June 13, 2024	NB	3:00 PM
140 vph	Friday, June 14, 2024	NB	12:00 PM

2023			
#2 Beachwalker Drive S of KIP			
Highest AM Peak Volume			
151 vph	Saturday, June 10, 2023	SB	9:00 AM
Highest PM Peak Volume			
143 vph	Tuesday, June 13, 2023	NB	5:00 PM
Highest AM Three Consecutive Day Peak Volume			
151 vph	Saturday, June 10, 2023	SB	9:00 AM
123 vph	Sunday, June 11, 2023	SB	9:00 AM
100 vph	Monday, June 12, 2023	SB	6:00 AM
Highest PM Three Consecutive Day Peak Volume			
138 vph	Monday, June 5, 2023	NB	5:00 PM
140 vph	Tuesday, June 6, 2023	NB	5:00 PM
133 vph	Wednesday, June 7, 2023	NB	5:00 PM
110 vph	Monday, June 12, 2023	NB	5:00 PM
143 vph	Tuesday, June 13, 2023	NB	5:00 PM
134 vph	Wednesday, June 14, 2023	NB	12:00 PM

2022			
#2 Beachwalker Drive S of KIP			
Highest AM Peak Volume			
114 vph	Tuesday, June 7, 2022	SB	11:00 AM
Highest PM Peak Volume			
142 vph	Friday, June 10, 2022	NB	12:00 PM
Highest AM Three Consecutive Day Peak Volume			
83 vph	Monday, June 6, 2022	SB	9:00 AM
114 vph	Tuesday, June 7, 2022	SB	11:00 AM
138 vph	Wednesday, June 8, 2022	SB	11:00 AM
Highest PM Three Consecutive Day Peak Volume			
121 vph	Thursday, June 9, 2022	NB	2:00 PM
142 vph	Friday, June 10, 2022	NB	12:00 PM
119 vph	Saturday, June 11, 2022	NB	1:00 PM
115 vph	Sunday, June 5, 2022	NB	1:00 PM
92 vph	Monday, June 6, 2022	NB	5:00 PM
101 vph	Tuesday, June 7, 2022	NB	12:00 PM

# BEACHWALKER TRAFFIC SUMMARY (JULY)

2024

## #2 Beachwalker Drive S of KIP

### Highest AM Peak Volume

117 vph	Thursday, July 11, 2024	SB	10:00 AM
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### Highest PM Peak Volume

113 vph	Friday, July 19, 2024	NB	3:00 PM
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### Highest AM Three Consecutive Day Peak Volume

90 vph	Tuesday, July 9, 2024	SB	10:00 AM
101 vph	Wednesday, July 10, 2024	SB	10:00 AM
117 vph	Thursday, July 11, 2024	SB	10:00 AM

### Highest PM Three Consecutive Day Peak Volume

82 vph	Wednesday, July 17, 2024	NB	12:00 PM
113 vph	Thursday, July 18, 2024	NB	3:00 PM
101 vph	Friday, July 19, 2024	NB	5:00 PM

2023

## #2 Beachwalker Drive S of KIP

### Highest AM Peak Volume

141 vph	Wednesday, July 19, 2023	SB	9:00 AM
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### Highest PM Peak Volume

151 vph	Tuesday, July 18, 2023	NB	5:00 PM
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### Highest AM Three Consecutive Day Peak Volume

120 vph	Tuesday, July 18, 2023	SB	10:00 AM
141 vph	Wednesday, July 19, 2023	SB	9:00 AM
105 vph	Thursday, July 20, 2023	SB	6:00 AM

### Highest PM Three Consecutive Day Peak Volume

137 vph	Monday, July 17, 2023	NB	5:00 PM
151 vph	Tuesday, July 18, 2023	NB	5:00 PM
137 vph	Wednesday, July 19, 2023	NB	5:00 PM

2022

## #2 Beachwalker Drive S of KIP

### Highest AM Peak Volume

119 vph	Saturday, July 9, 2022	SB	9:00 AM
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### Highest PM Peak Volume

97 vph	Wednesday, July 20, 2022	NB	12:00 PM
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### Highest AM Three Consecutive Day Peak Volume

113 vph	Friday, July 8, 2022	SB	9:00 AM
119 vph	Saturday, July 9, 2022	SB	9:00 AM
65 vph	Sunday, July 10, 2022	SB	10:00 AM

### Highest PM Three Consecutive Day Peak Volume

81 vph	Tuesday, July 19, 2022	NB	12:00 PM
97 vph	Wednesday, July 20, 2022	NB	12:00 PM
92 vph	Thursday, July 21, 2022	NB	12:00 PM

# BEACHWALKER TRAFFIC SUMMARY (AUGUST)

2024			
#2 Beachwalker Drive S of KIP			
Highest AM Peak Volume			
107 vph	Friday, August 30, 2024	SB	10:00 AM
Highest PM Peak Volume			
105 vph	Saturday, August 31, 2024	NB	1:00 PM
Highest AM Three Consecutive Day Peak Volume			
99 vph	Thursday, August 29, 2024	SB	9:00 AM
107 vph	Friday, August 30, 2024	SB	10:00 AM
105 vph	Saturday, August 31, 2024	SB	9:00 AM
Highest PM Three Consecutive Day Peak Volume			
84 vph	Thursday, August 29, 2024	NB	2:00 PM
94 vph	Friday, August 30, 2024	NB	2:00 PM
105 vph	Saturday, August 31, 2024	NB	1:00 PM

2023			
#2 Beachwalker Drive S of KIP			
Highest AM Peak Volume			
111 vph	Friday, August 18, 2023	SB	9:00 AM
Highest PM Peak Volume			
136 vph	Friday, August 18, 2023	NB	3:00 PM
Highest AM Three Consecutive Day Peak Volume			
111 vph	Friday, August 18, 2023	SB	9:00 AM
100 vph	Saturday, August 19, 2023	SB	9:00 AM
78 vph	Sunday, August 20, 2023	SB	9:00 AM
Highest PM Three Consecutive Day Peak Volume			
108 vph	Wednesday, August 16, 2023	NB	5:00 PM
118 vph	Thursday, August 17, 2023	NB	5:00 PM
136 vph	Friday, August 18, 2023	NB	3:00 PM

2022			
#2 Beachwalker Drive S of KIP			
Highest AM Peak Volume			
71 vph	Wednesday, August 16, 2022	NB	3:00 PM
Highest PM Peak Volume			
71 vph	Saturday, August 27, 2022	SB	9:00 AM
Highest AM Three Consecutive Day Peak Volume			
52 vph	Friday, August 26, 2022	SB	6:00 AM
71 vph	Saturday, August 27, 2022	SB	9:00 AM
50 vph	Sunday, August 28, 2022	SB	10:00 AM
Highest PM Three Consecutive Day Peak Volume			
71 vph	Friday, August 26, 2022	NB	3:00 PM
67 vph	Saturday, August 27, 2022	NB	4:00 PM
70 vph	Sunday, August 28, 2022	NB	12:00 PM



## ADDITIONAL RESOURCES

The complete traffic data provided by Quality Counts, LLC may be found online at the Town's Planning Department Webpage.

[https://www.kiawahisland.org/traffic\\_studies.php](https://www.kiawahisland.org/traffic_studies.php)