Morton & Morton
Design Services, PLLC

Count Number: 10-08007
County: Dare
City: Kill Devil Hills
Division: 01

Morton & Morton
Design Sevices, PLLC
Traffic Engineering

12-Hour Count Volume: 30,329 vehicles

Intersection: US 158 (South Croatan Highway) at Neptune Drive

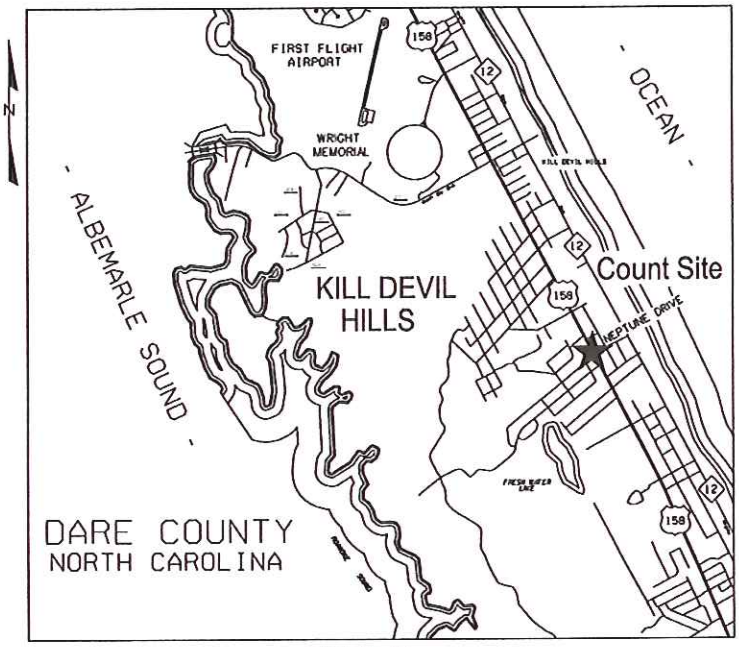
Count Date	Count Time	Weather Conditions
Sunday, May 30, 2010	6:00 A.M. to 7:00 P.M.	Morning-Sunny, Afternoon-Sunny Hot Evening-Sunny Warm

Comments

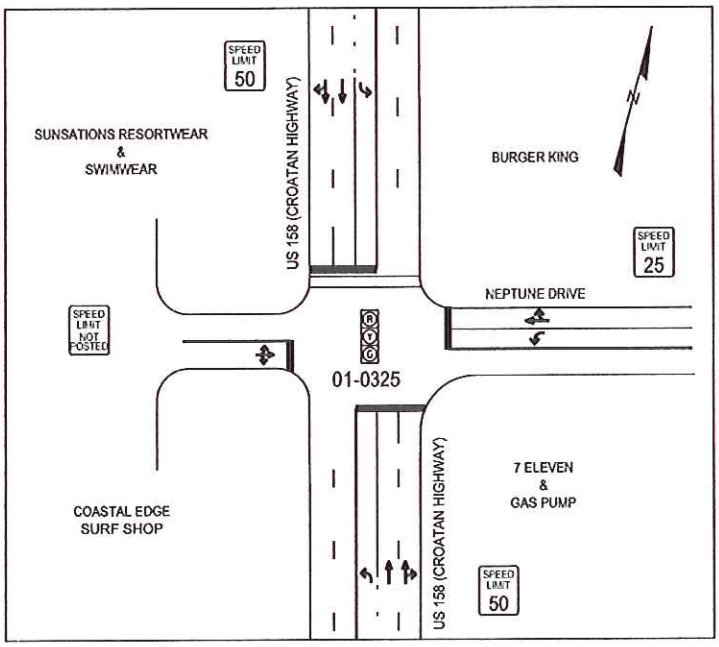
1 School was not in session
2 Pedestrian movements are tabulated under the approach that they cross
3 Counted by: Anthony Dudley
Linsey Morton
4 Data Processor: Donald Morton
5 Break Times: 2:30 to 3:00 P.M.
6 Interpolated values for these intervals
7 Scheduled Break: 9:00 to 10:00 A.M.
8 Signalized intersection left turn treatments

Southbound	Protected/Permitted
Westbound	Permitted
Northbound	Protected/Permitted
Eastbound	Permitted

9 Traffic Signal Inventory No.: 01-0325



Vicinity Map



Intersection Sketch

9121 Anson Way, Suite 101 Raleigh, NC 27615 Phone 919-882-6066 Fax 919-256-7609

Morton & Morton
Design Services, PLLC

Count Number 10-08007
County Dare
City Kill Devil Hills
Division 01

Intersection US 158 (South Croatan Hwy) at Neptune Drive

US 158 Northbound – Looking North toward Neptune Drive

US 158 Northbound – Looking South away from Neptune Drive

Morton & Morton
Design Services, PLLC

Count Number 10-08007
County Dare
City Kill Devil Hills
Division 01

Intersection US 158 (South Croatan Hwy) at Neptune Drive

US 158 Southbound – Looking South toward Neptune Drive

US 158 Southbound – Looking North away from Neptune Drive

Morton & Morton
Design Services, PLLC

Count Number 10-08007
County Dare
City Kill Devil Hills
Division 01

Intersection US 158 (South Croatan Hwy) at Neptune Drive

Neptune Drive Eastbound – Looking East toward US 158

Neptune Drive Eastbound – Looking West away from US 158

Morton & Morton
Design Services, PLLC

Count Number 10-08007
County Dare
City Kill Devil Hills
Division 01

Intersection US 158 (South Croatan Hwy) at Neptune Drive

Neptune Drive Westbound – Looking West toward US 158

Neptune Drive Westbound – Looking East away from US 158

Morton & Morton Design Services, PLLC

9121 Anson Way, Suite 101
Raleigh, NC 27615
PH. (919)-882-6066

www.mortonmorton.com

File Name : 10-08007
Site Code : 00008007
Start Date : 5/30/2010
Page No : 1

Groups Printed- All Traffic

	US 158 (South Croatan Hwy) Southbound				Neptune Drive Westbound				US 158 (South Croatan Hwy) Northbound				Neptune Drive Eastbound						
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	48	0	0	1	0	1	0	0	42	2	0	0	0	0	0	0	94	94
06:15 AM	4	59	0	1	2	0	3	0	0	53	1	0	0	0	0	0	1	122	123
06:30 AM	5	72	0	0	1	0	4	0	0	55	3	0	0	0	0	0	0	140	140
06:45 AM	6	91	0	0	5	0	5	0	0	70	1	0	0	0	0	0	0	178	178
Total	15	270	0	1	9	0	13	0	0	220	7	0	0	0	0	0	1	534	535
07:00 AM	6	74	0	2	5	0	8	0	0	103	3	0	0	0	0	0	2	199	201
07:15 AM	3	86	0	0	2	0	8	0	0	85	0	0	0	0	0	1	1	184	185
07:30 AM	8	143	0	0	9	0	9	0	0	108	5	0	0	0	0	0	0	282	282
07:45 AM	11	137	0	1	11	0	8	0	0	128	2	0	0	0	0	0	1	297	298
Total	28	440	0	3	27	0	33	0	0	424	10	0	0	0	0	1	4	962	966
08:00 AM	5	140	1	1	12	0	7	0	0	134	2	0	0	0	0	0	1	301	302
08:15 AM	11	187	0	0	11	0	9	1	0	171	7	0	0	0	0	0	1	396	397
08:30 AM	7	209	1	0	6	0	14	0	1	163	3	0	0	0	0	0	0	404	404
08:45 AM	13	265	5	2	11	1	20	0	1	196	5	0	0	1	2	1	3	520	523
Total	36	801	7	3	40	1	50	1	2	664	17	0	0	1	2	1	5	1621	1626
*** BREAK ***																			
10:00 AM	17	434	2	0	17	1	21	0	5	275	10	0	3	1	2	0	0	788	788
10:15 AM	15	411	3	1	34	1	21	0	2	276	6	0	6	2	5	1	2	782	784
10:30 AM	14	446	6	0	29	2	12	0	2	343	14	0	3	0	2	0	0	873	873
10:45 AM	11	425	6	0	44	0	20	0	7	313	9	0	4	2	2	0	0	843	843
Total	57	1716	17	1	124	4	74	0	16	1207	39	0	16	5	11	1	2	3286	3288
11:00 AM	15	406	12	0	23	0	22	4	2	284	12	0	4	0	2	2	6	782	788
11:15 AM	7	393	5	6	41	3	19	5	1	298	7	0	4	4	7	1	12	789	801
11:30 AM	12	411	4	2	22	2	30	0	1	317	11	0	2	0	3	0	2	815	817
11:45 AM	14	420	7	1	21	1	12	0	2	371	13	0	4	1	1	2	3	867	870
Total	48	1630	28	9	107	6	83	9	6	1270	43	0	14	5	13	5	23	3253	3276
12:00 PM	15	335	4	6	24	3	18	0	1	373	20	0	3	2	4	1	7	802	809
12:15 PM	11	396	7	0	17	2	23	1	6	377	13	0	1	1	1	0	1	855	856
12:30 PM	15	374	5	4	33	1	14	0	3	338	10	0	3	3	3	1	5	802	807
12:45 PM	17	330	7	8	22	2	21	0	3	346	14	0	5	4	2	2	10	773	783
Total	58	1435	23	18	96	8	76	1	13	1434	57	0	12	10	10	4	23	3232	3255
01:00 PM	17	387	8	2	20	1	16	3	1	337	10	0	4	0	8	0	5	809	814
01:15 PM	10	301	3	0	29	0	21	4	3	323	23	0	3	2	2	3	7	720	727
01:30 PM	22	404	7	3	19	2	24	0	0	303	10	0	3	0	4	0	3	798	801
01:45 PM	13	297	6	0	21	0	19	3	0	343	10	0	4	1	3	0	3	717	720
Total	62	1389	24	5	89	3	80	10	4	1306	53	0	14	3	17	3	18	3044	3062
02:00 PM	10	400	1	2	21	2	12	4	1	350	8	0	0	0	3	2	8	808	816
02:15 PM	10	351	4	1	25	2	18	0	2	331	13	0	3	4	1	2	3	764	767
02:30 PM	9	335	4	1	23	1	18	0	2	327	11	0	4	3	2	1	2	739	741
02:45 PM	9	318	4	1	21	0	19	0	2	322	10	0	6	2	3	0	1	716	717
Total	38	1404	13	5	90	5	67	4	7	1330	42	0	13	9	9	5	14	3027	3041

Morton & Morton Design Services, PLLC

9121 Anson Way, Suite 101
Raleigh, NC 27615
PH. (919)-882-6066

www.mortonmorton.com

File Name : 10-08007
Site Code : 00008007
Start Date : 5/30/2010
Page No : 2

Groups Printed- All Traffic

	US 158 (South Croatan Hwy) Southbound				Neptune Drive Westbound				US 158 (South Croatan Hwy) Northbound				Neptune Drive Eastbound						
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
03:00 PM	8	302	4	1	19	0	19	0	2	318	8	0	7	1	4	1	2	692	694
03:15 PM	9	316	2	0	25	1	27	4	3	380	11	0	1	2	2	0	4	779	783
03:30 PM	12	344	4	8	22	3	19	5	0	305	13	0	2	0	2	3	16	726	742
03:45 PM	16	325	6	1	16	1	28	0	1	374	9	0	2	1	1	1	2	780	782
Total	45	1287	16	10	82	5	93	9	6	1377	41	0	12	4	9	5	24	2977	3001
04:00 PM	6	329	7	0	19	1	16	5	3	374	9	0	3	1	5	2	7	773	780
04:15 PM	9	324	5	0	30	2	20	1	1	321	9	0	7	0	4	0	1	732	733
04:30 PM	10	318	8	3	17	0	14	0	10	293	6	0	2	0	3	0	3	681	684
04:45 PM	16	325	15	4	22	1	14	1	2	327	11	0	6	1	3	0	5	743	748
Total	41	1296	35	7	88	4	64	7	16	1315	35	0	18	2	15	2	16	2929	2945
05:00 PM	11	317	6	1	17	0	17	2	1	309	11	0	5	1	3	0	3	698	701
05:15 PM	16	290	2	0	16	2	17	1	1	298	9	0	5	0	3	4	5	659	664
05:30 PM	8	284	5	0	11	1	16	7	0	275	11	1	2	2	0	0	8	615	623
05:45 PM	2	295	1	0	21	1	18	0	2	309	14	0	5	0	4	0	0	672	672
Total	37	1186	14	1	65	4	68	10	4	1191	45	1	17	3	10	4	16	2644	2660
06:00 PM	5	306	4	0	18	0	16	1	1	296	13	3	3	3	2	1	5	667	672
06:15 PM	6	299	6	1	24	0	14	1	4	389	15	1	4	0	2	1	4	763	767
06:30 PM	11	272	3	0	29	2	18	0	4	304	13	0	7	3	3	0	0	669	669
06:45 PM	12	323	4	0	12	3	13	1	0	334	12	0	4	3	1	0	1	721	722
Total	34	1200	17	1	83	5	61	3	9	1323	53	4	18	9	8	2	10	2820	2830
Grand Total	499	14054	194	64	900	45	762	54	83	13061	442	5	134	51	104	33	156	30329	30485
Apprch %	3.4	95.3	1.3		52.7	2.6	44.6		0.6	96.1	3.3		46.4	17.6	36				
Total %	1.6	46.3	0.6		3	0.1	2.5		0.3	43.1	1.5		0.4	0.2	0.3		0.5	99.5	

Morton & Morton Design Services, PLLC

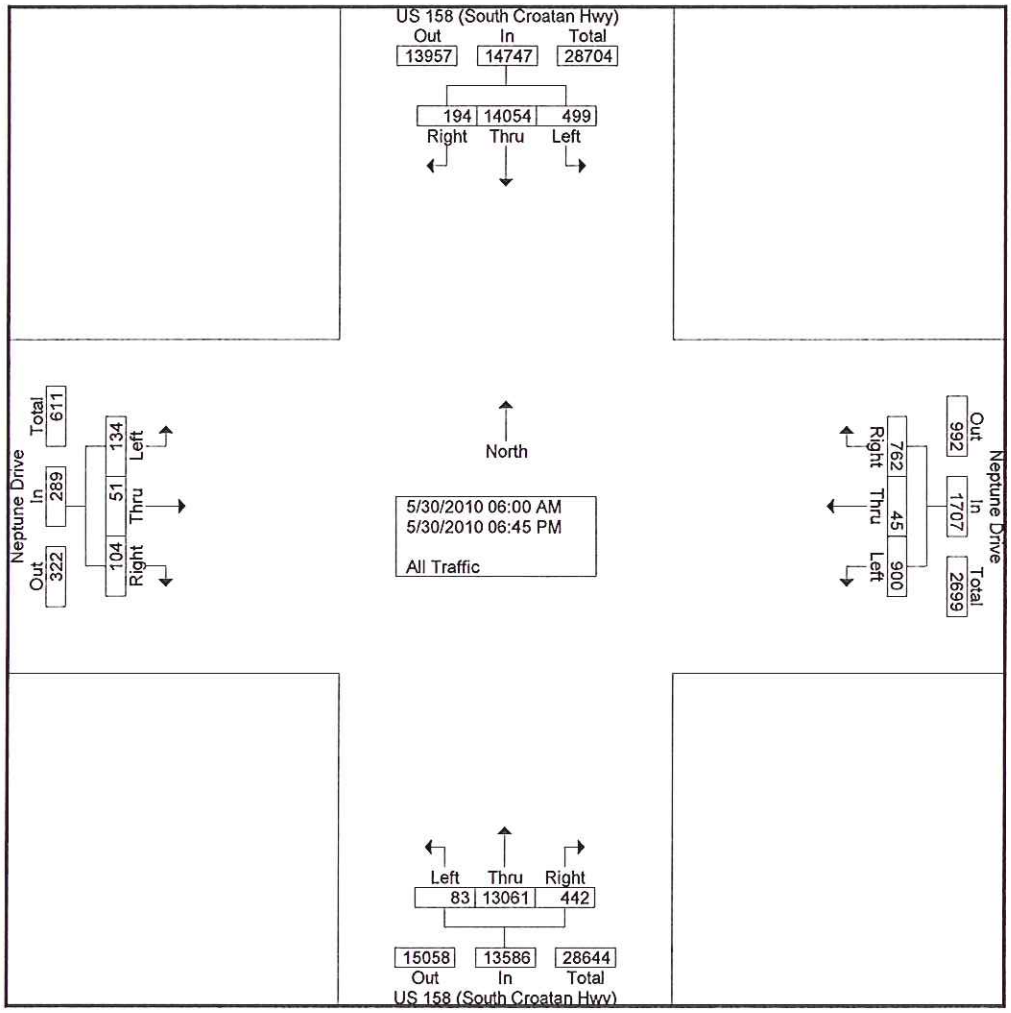
9121 Anson Way, Suite 101
Raleigh, NC 27615
PH. (919)-882-6066

www.mortonmorton.com

File Name : 10-08007
Site Code : 00008007
Start Date : 5/30/2010
Page No : 3

Groups Printed- All Traffic

	US 158 (South Croatan Hwy) Southbound				Neptune Drive Westbound				US 158 (South Croatan Hwy) Northbound				Neptune Drive Eastbound						
	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total



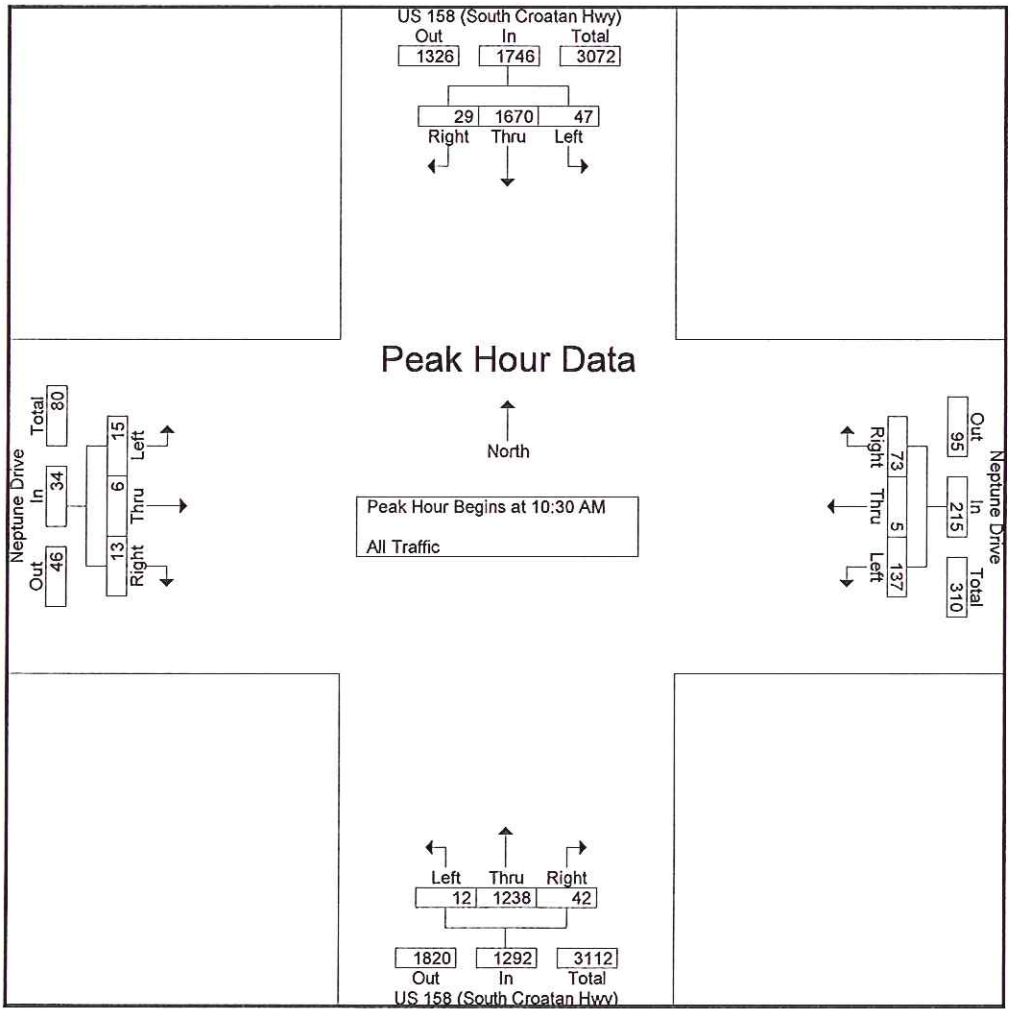
Morton & Morton Design Services, PLLC

9121 Anson Way, Suite 101
Raleigh, NC 27615
PH. (919)-882-6066

www.mortonmorton.com

File Name : 10-08007
Site Code : 00008007
Start Date : 5/30/2010
Page No : 4

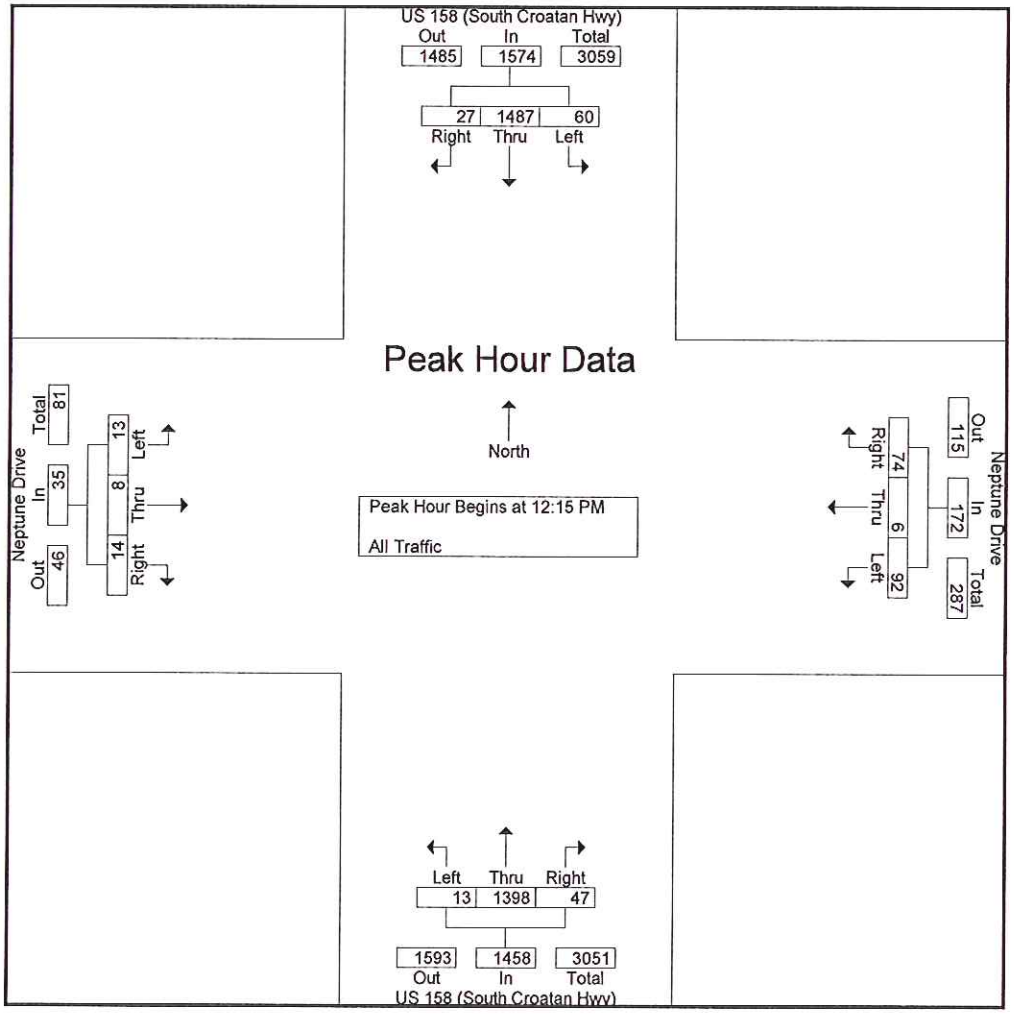
	US 158 (South Croatan Hwy) Southbound				Neptune Drive Westbound				US 158 (South Croatan Hwy) Northbound				Neptune Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 11:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 10:30 AM																	
10:30 AM	14	**446**	6	**466**	29	2	12	43	2	**343**	**14**	**359**	3	0	2	5	**873**
10:45 AM	11	425	6	442	**44**	0	20	**64**	**7**	313	9	329	**4**	2	2	8	843
11:00 AM	**15**	406	**12**	433	23	0	**22**	45	2	284	12	298	4	0	2	6	782
11:15 AM	7	393	5	405	41	**3**	19	63	1	298	7	306	4	**4**	**7**	**15**	789
Total Volume	47	1670	29	1746	137	5	73	215	12	1238	42	1292	15	6	13	34	3287
% App. Total	2.7	95.6	1.7		63.7	2.3	34		0.9	95.8	3.3		44.1	17.6	38.2		
PHF	.783	.936	.604	.937	.778	.417	.830	.840	.429	.902	.750	.900	.938	.375	.464	.567	.941



Morton & Morton Design Services, PLLC

9121 Anson Way, Suite 101
Raleigh, NC 27615
PH. (919)-882-6066

www.mortonmorton.com

File Name : 10-08007
Site Code : 00008007
Start Date : 5/30/2010
Page No : 5

	US 158 (South Croatan Hwy) Southbound				Neptune Drive Westbound				US 158 (South Croatan Hwy) Northbound				Neptune Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 12:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 12:15 PM																	
12:15 PM	11	**396**	7	**414**	17	**2**	**23**	42	**6**	**377**	13	**396**	1	1	1	3	**855**
12:30 PM	15	374	5	394	**33**	1	14	**48**	3	338	10	351	3	3	3	9	802
12:45 PM	**17**	330	7	354	22	2	21	45	3	346	**14**	363	**5**	**4**	2	11	773
01:00 PM	17	387	**8**	412	20	1	16	37	1	337	10	348	4	0	**8**	**12**	809
Total Volume	60	1487	27	1574	92	6	74	172	13	1398	47	1458	13	8	14	35	3239
% App. Total	3.8	94.5	1.7		53.5	3.5	43		0.9	95.9	3.2		37.1	22.9	40		
PHF	.882	.939	.844	.950	.697	.750	.804	.896	.542	.927	.839	.920	.650	.500	.438	.729	.947