

City of Dana Point
TRAFFIC IMPROVEMENT
SUBCOMMITTEE
STREET SWEEPING



August 19, 2009

TRAFFIC IMPROVEMENT SUBCOMMITTEE

STREET SWEEPING

PURPOSE OF THIS PRESENTATION :

- *To provide some background of where we have been on this issue*
- *To discuss pros & cons of expanding the posted streets in Dana Point for street sweeping*

TRAFFIC IMPROVEMENT SUBCOMMITTEE

STREET SWEEPING

BACKGROUND AND CHRONOLOGY

TRAFFIC IMPROVEMENT SUBCOMMITTEE

STREET SWEEPING

CHRONOLOGY OF EVENTS (ABBREVIATED):

MARCH 1991	LANTERN VILLAGE WAS APPROVED FOR STREET SWEEPING POSTING
JULY 2000	CITY IMPLEMENTED WEEKLY STREET SWEEPING
NOV. 2000/JAN. 2001	CITY COUNCIL CONSIDERED CITYWIDE POSTINGS/OUTREACH
JAN. 2001 TO DEC. 2002	EXTENSIVE OUTREACH/VOLUNTARY COMPLIANCE TESTING AND ADJUSTMENTS IN STREET SWEEPING SCHEDULE TO ALT. SIDE/ALT. DAY
MARCH 2004	VOLUNTARY COMPLIANCE WAS TESTED AGAIN

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FEB. 2004	MEMORANDUM ISSUED TO THE COUNCIL FROM THE CITY MANAGER
JAN. 2005	COMPREHENSIVE REPORT ON VOLUNTARY COMPLIANCE WAS PREPARED
SEPT. 2005	TRAFFIC SUBCOMMITTEE CONSIDERED POSTING FOR CITYWIDE STREET SWEEPING (REQUESTED OCEAN WATER QUALITY SUB. INPUT)
JAN. 2006	OCEAN WATER QUALITY SUBCOMMITTEE (OWQS) DISCUSSED NEED FOR STREET SWEEPING

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AUG. 2006	TRAFFIC IMPROVEMENT SUBCOMMITTEE CONSIDERED SANTA CLARA PARKING PROBLEM AND ALTERNATE DAY/ALTERNATE SIDE STREET SWEEPING SCHEDULE
SEPT. 2006	TRAFFIC IMPROVEMENT SUBCOMMITTEE APPROVED ALT. DAY/ALT. SIDE STREET SWEEPING
OCT. 2006	TRAFFIC IMPROVEMENT SUBCOMMITTEE RECOMMENDED ADDING SANTA CLARA AND THE TOWN CENTER AREA TO THE STREETS POSTED FOR STREET SWEEPING
NOV. 2006	CITY COUNCIL APPROVED A REVISED RESOLUTION CHANGING THE STREET SWEEPING SCHEDULE TO INCLUDE ALT. SIDE/ALT. DAY SWEEPING AND TO ADD THE TOWN CENTER/SANTA CLARA AREA

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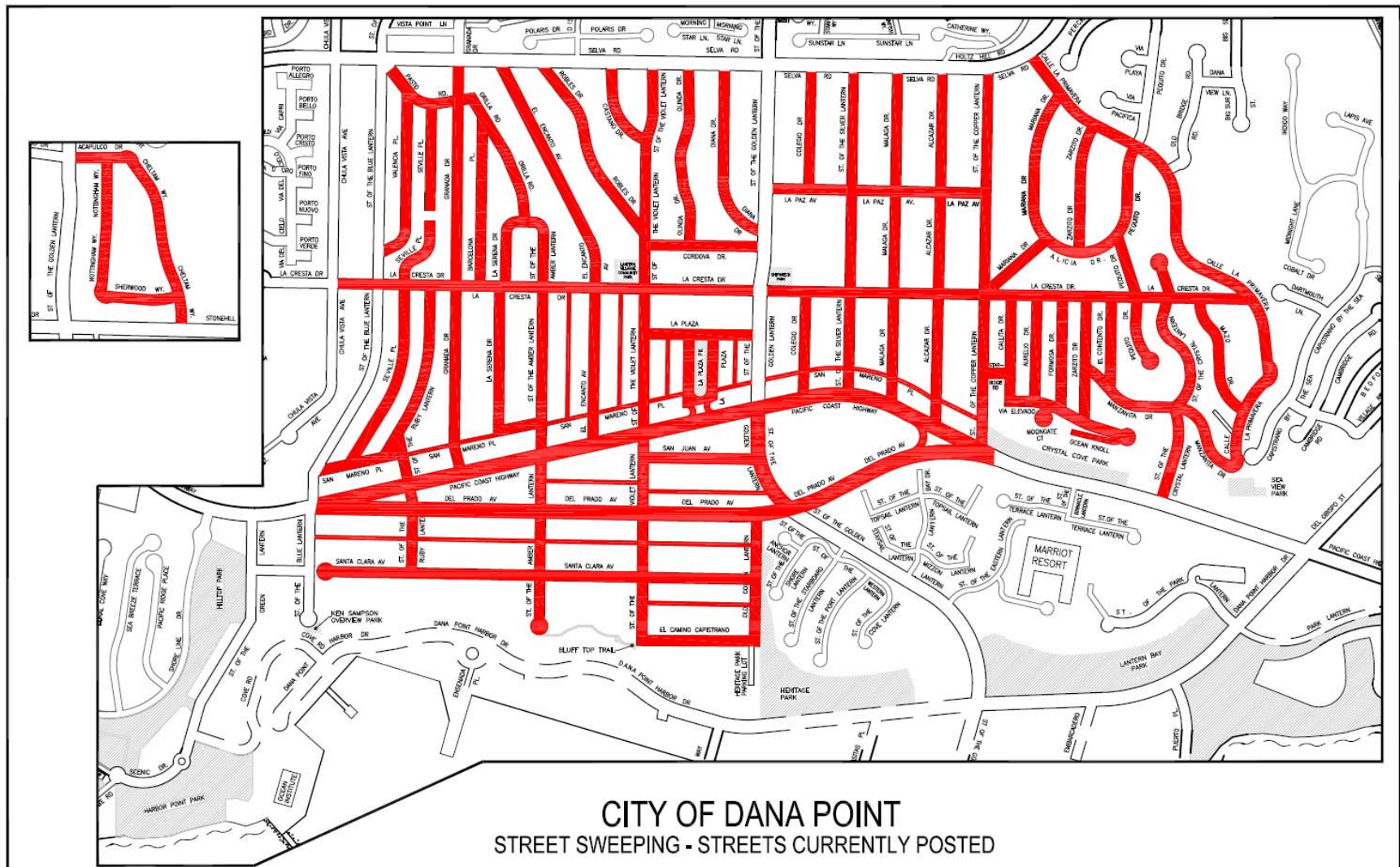
STREET SWEEPING

MARCH 2007	CITY STAFF ALTERED THE SIGNAGE TO REFLECT THE COUNCIL APPROVED CHANGES
JUNE 2007	TRAFFIC COMMISSION CONSIDERED POSTING FOR CITYWIDE STREET SWEEPING (NO ACTION TAKEN)
MAY 2008	TRAFFIC COMMISSION CONSIDERED POSTING FOR CITYWIDE STREET SWEEPING (NO ACTION TAKEN)
JUNE 2009	NEW TIS GENERAL BACKGROUND BRIEFING ON THIS HISTORY & PREVIOUS STUDIES
JULY 2009	OWQS REAFFIRMED RECOMMENDATION FOR STREET SWEEPING CITYWIDE

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STREET SWEEPING

STREETS CURRENTLY POSTED FOR STREET SWEEPING



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STREET SWEEPING

***DATA SHOWING VOLUNTARY
COMPLIANCE IS NOT EFFECTIVE***

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CAPO BEACH EVALUATION RESULTS :

Capistrano Beach Parked Vehicle Counts Before & After Extensive Outreach (Approx. \$100K In Costs)

	<i>Phase I</i>				<i>Phase II</i>	
DAY	DATE	TOTAL CARS	DATE	TOTAL CARS	DATE	TOTAL CARS
Monday	2/23/04	291	3/1/04	278	11/15/04	255
Tuesday	2/26/04	289	3/2/04	308	11/16/04	368
Thursday	2/26/04	182	3/4/04	180	11/18/04	162
Friday	2/27/04	164	3/5/04	201	11/19/04	161
Total		926		967		946

Reasons to Consider Adding Parking Posting

- Cleaner Streets – Appearance
- Improved Ocean Water Quality
 - Reduced Street Debris Reaching Street Catch Basins
 - Street Debris Contains Pollutants
- Reduced storage of vehicles on street
 - 72 Hours Violations Reduced
- Reduced public complaints over parked cars
 - Sweeping Days
 - Street Storage

Street Sweeping Debris Contains Pollutants

- FEB 2003 study revealed following pollutants in street debris:

- Fecal coliform
- Arsenic
- Barium
- Cadmium
- Chromium
- Cobalt
- Copper
- Lead
- Molybdenum
- Nickel

- Selenium
- Vanadium
- Zinc
- Petroleum Hydro Carbons

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STREET SWEEPING

***ESTIMATED DEBRIS TONNAGE
THAT COULD BE COLLECTED***

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STREET SWEEPING

CAPO BEACH EVALUATION RESULTS :

Total distance traveled by street sweeper in one week	264,000 LF
Total average length of streets blocked by vehicles while street sweeping occurs (one side)	18,926.67 LF
Average amount of material collected by the street sweeper	0.014 lbs/LF of street
<i>Total average amount of material missed by street sweepers</i>	<i>7.36 tons/year 283 pounds/week</i>

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POSSIBLE PHASED APPROACH :

- *Consider posting additional areas based on the amount of cars parked on streets on street sweeping day.*
- *Consider posting additional areas based on receiving consistent requests to post streets for street sweeping.*

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STREET SWEEPING

REVIEW OF PARKING UTILIZATION IN CERTAIN DANA POINT AREAS

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STREET SWEEPING

LEGEND FOR PARKING USAGE TABLE

Ranks:

light:	< 25% approx. capacity for street segment
moderate:	25 ~ 50% approx. capacity for street segment
heavy:	> 50% approx. capacity for street segment
1	light
2	light-moderate
3	moderate
4	moderate-heavy
5	heavy

TRAFFIC IMPROVEMENT SUBCOMMITTEE

STREET SWEEPING

SUMMARY OF PARKING USAGE LEVELS

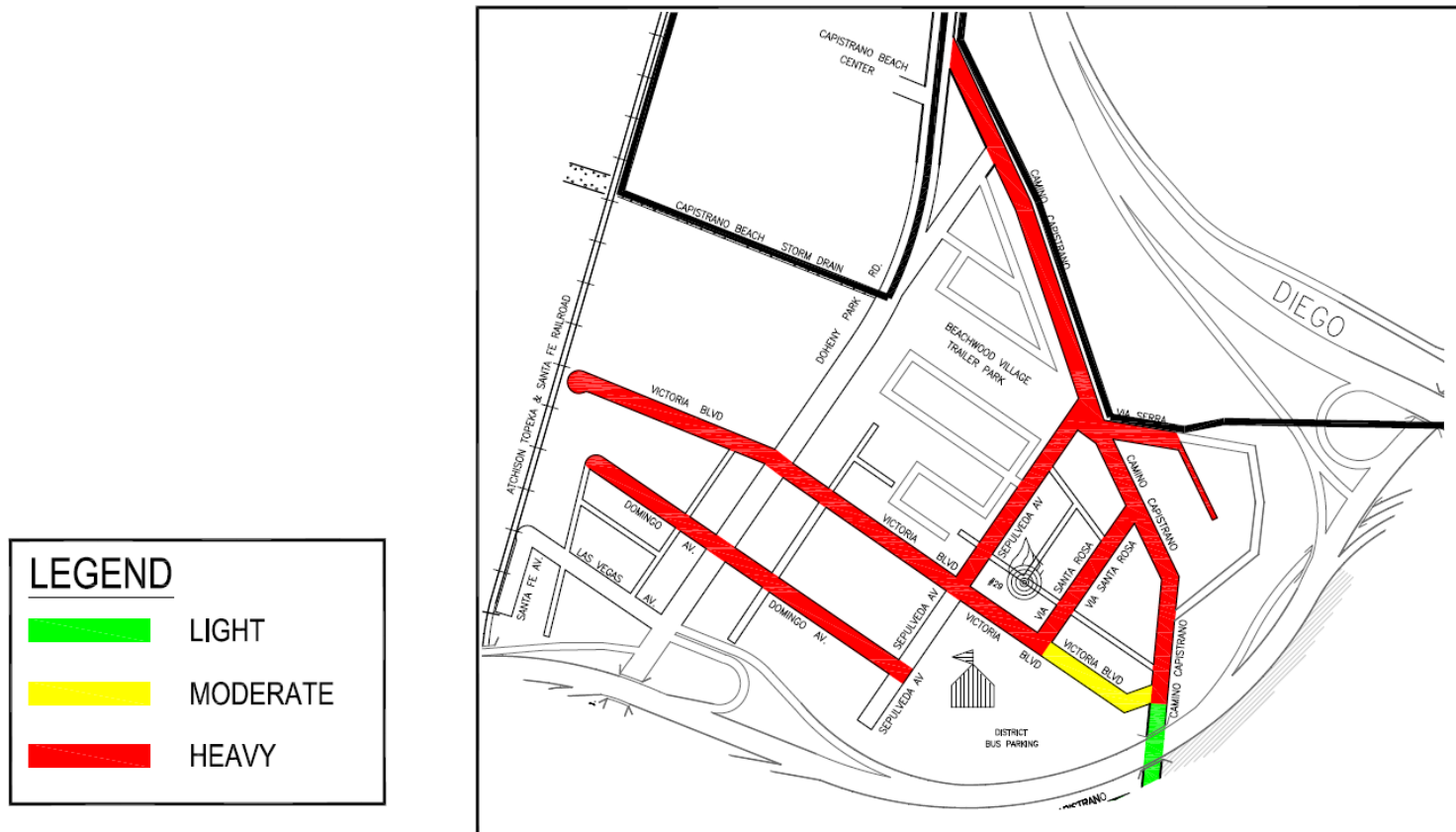
Car Usage on Street Sweeping Day					
Number	AREA	MEAN	MEDIAN	MODE	OVERALL USAGE
Citywide	Arterial Streets per Map				heavy in specific areas
1	Capo Beach - Doheny Park Rd.	4.50	5	5	heavy
2	Blue Lantern/Alta Vista	3.56	5	5	heavy
3	Chula Vista	2.33	3	3	moderate
4	Westborne Area/Evans Pointe	2.80	3	1	moderate
5	Capo Beach - NW	2.66	3	3	moderate
6	Acapulco	1.95	1	1	light-moderate
7	Capo Beach - North of I-5 Freeway	2.34	2	1	light-moderate
8	Capo Beach - Central Capo/Palisades	2.28	2	1	light-moderate
9	Palo Alto Area	2.21	2	1	light-moderate
10	Bible Belt	1.36	1	1	light
11	Capo Beach - Camino Cap./City Limits	1.94	1	1	light
12	Dana Woods	1.54	1	1	light
13	Ocean Hill Area	1.88	1	1	light

ARTERIAL STREETS



STREET SWEEPING

AREA NUMBER 1



CITY OF DANA POINT
PARKING TRAFFIC ON STREET SWEEPING STREETS

TRAFFIC IMPROVEMENT SUBCOMMITTEE

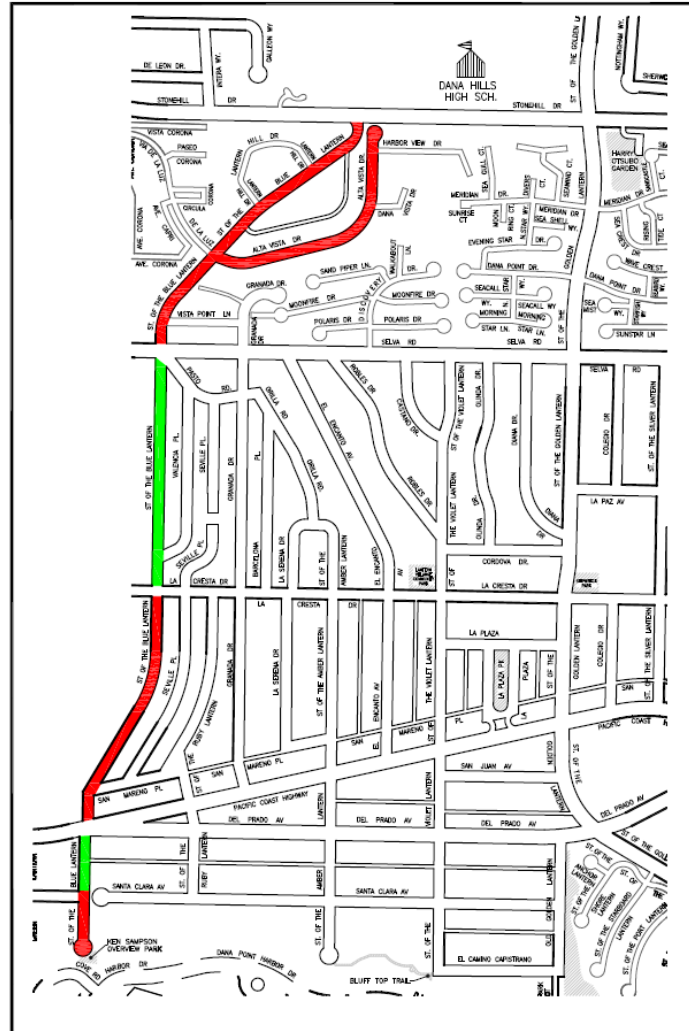
STREET SWEEPING

AREA NUMBER 2

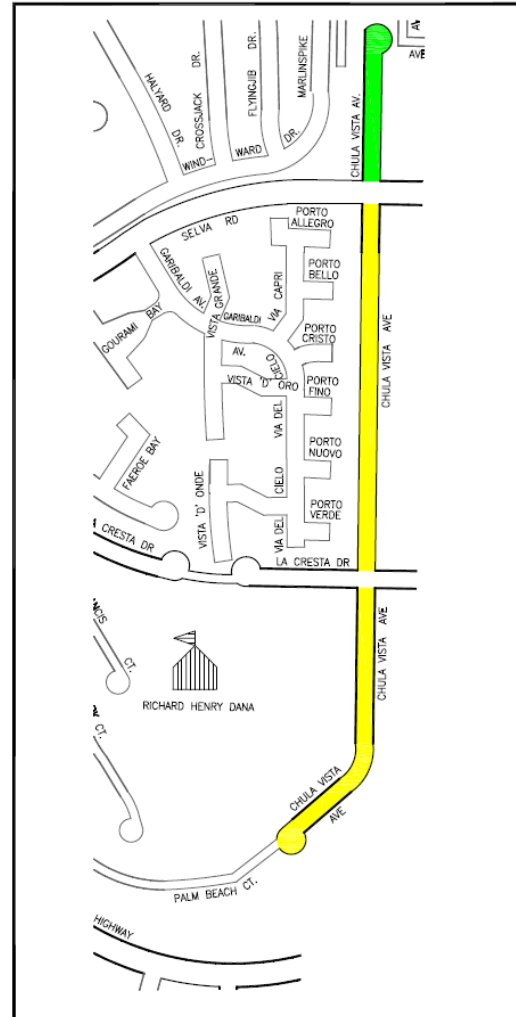
LEGEND

- LIGHT
- MODERATE
- HEAVY

CITY OF DANA POINT
PARKING TRAFFIC ON STREET SWEEPING STREETS



AREA NUMBER 3



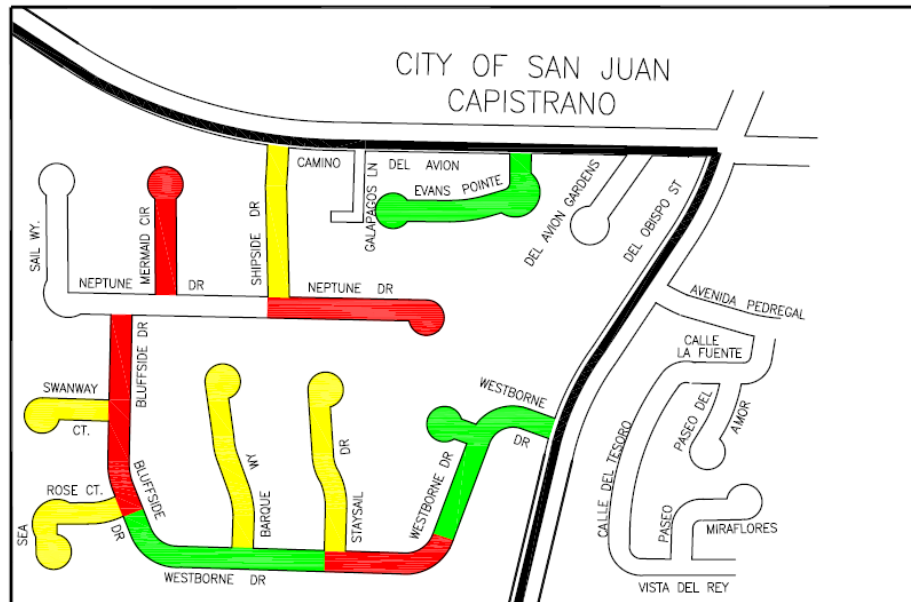
TRAFFIC IMPROVEMENT SUBCOMMITTEE

STREET SWEEPING

AREA NUMBER 4

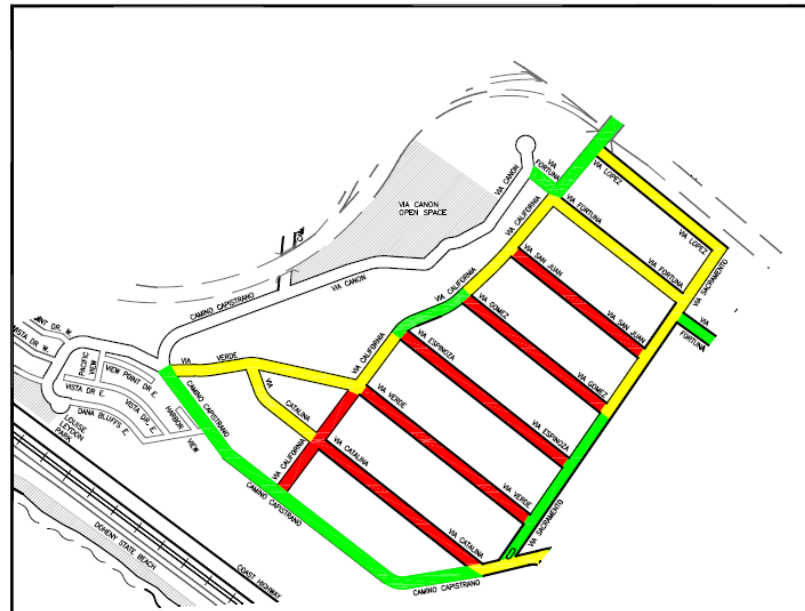
LEGEND

- LIGHT
- MODERATE
- HEAVY



CITY OF DANA POINT
PARKING TRAFFIC ON STREET SWEEPING STREETS

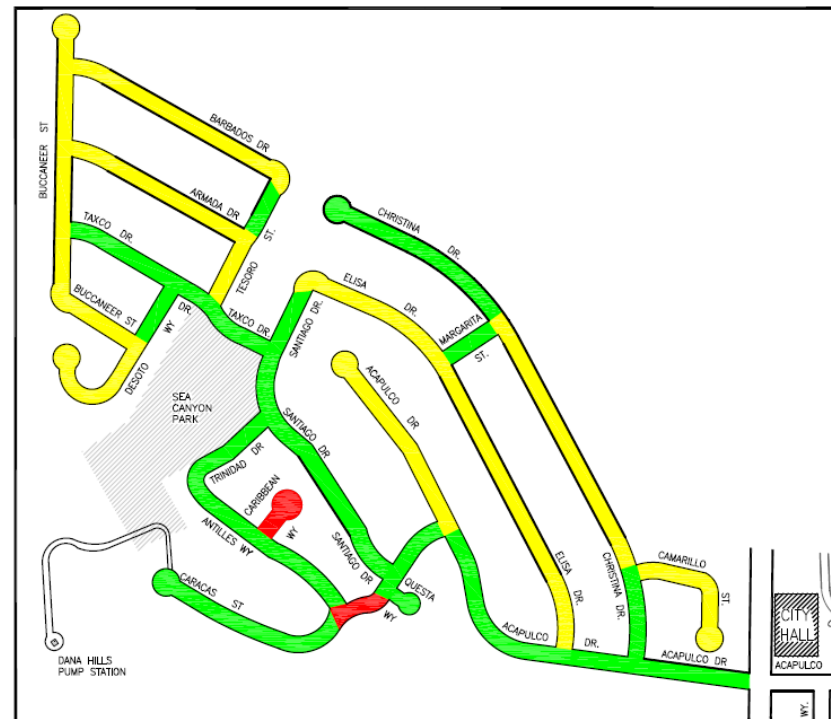
AREA NUMBER 5



CITY OF DANA POINT

PARKING TRAFFIC ON STREET SWEEPING STREETS

AREA NUMBER 6

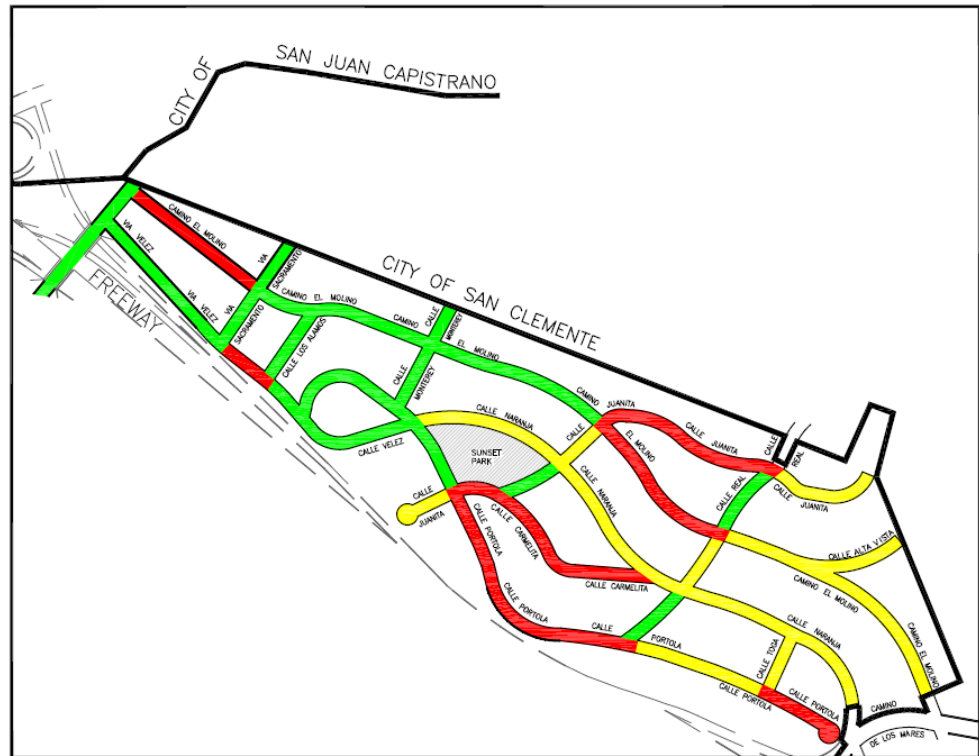
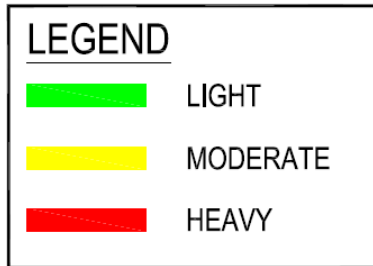


CITY OF DANA POINT

TRAFFIC IMPROVEMENT SUBCOMMITTEE

STREET SWEEPING

AREA NUMBER 7



CITY OF DANA POINT
PARKING TRAFFIC ON STREET SWEEPING STREETS

TRAFFIC IMPROVEMENT SUBCOMMITTEE

STREET SWEEPING

AREA NUMBER 8

LEGEND



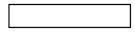
LIGHT



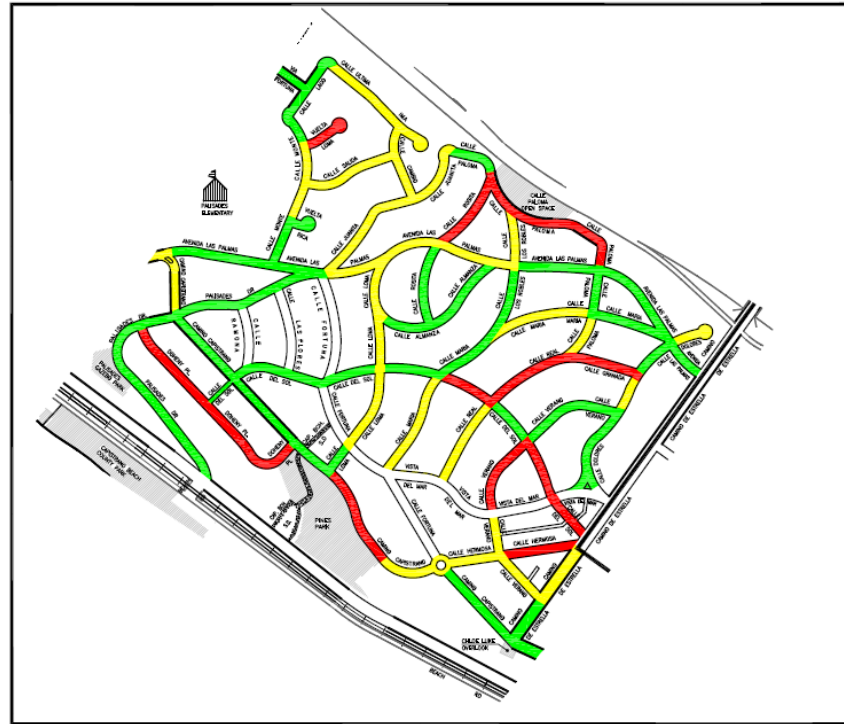
MODERATE



HEAVY



ROADWAYS UNDER CONSTRUCTION
NO DATA COLLECTED



CITY OF DANA POINT
PARKING TRAFFIC ON STREET SWEEPING STREETS

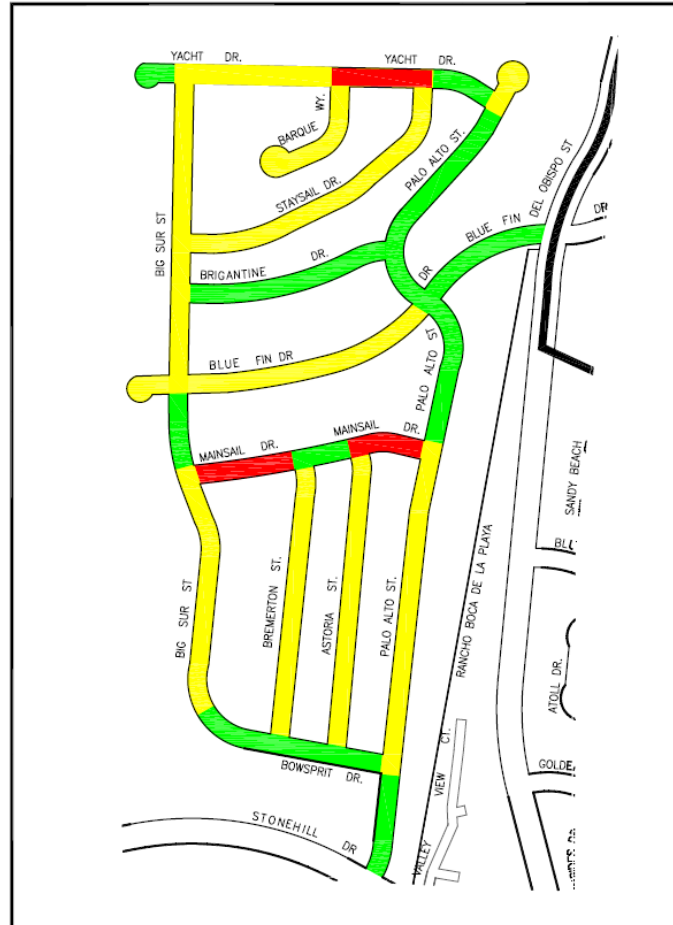
TRAFFIC IMPROVEMENT SUBCOMMITTEE

STREET SWEEPING

AREA NUMBER 9

LEGEND

	LIGHT
	MODERATE
	HEAVY

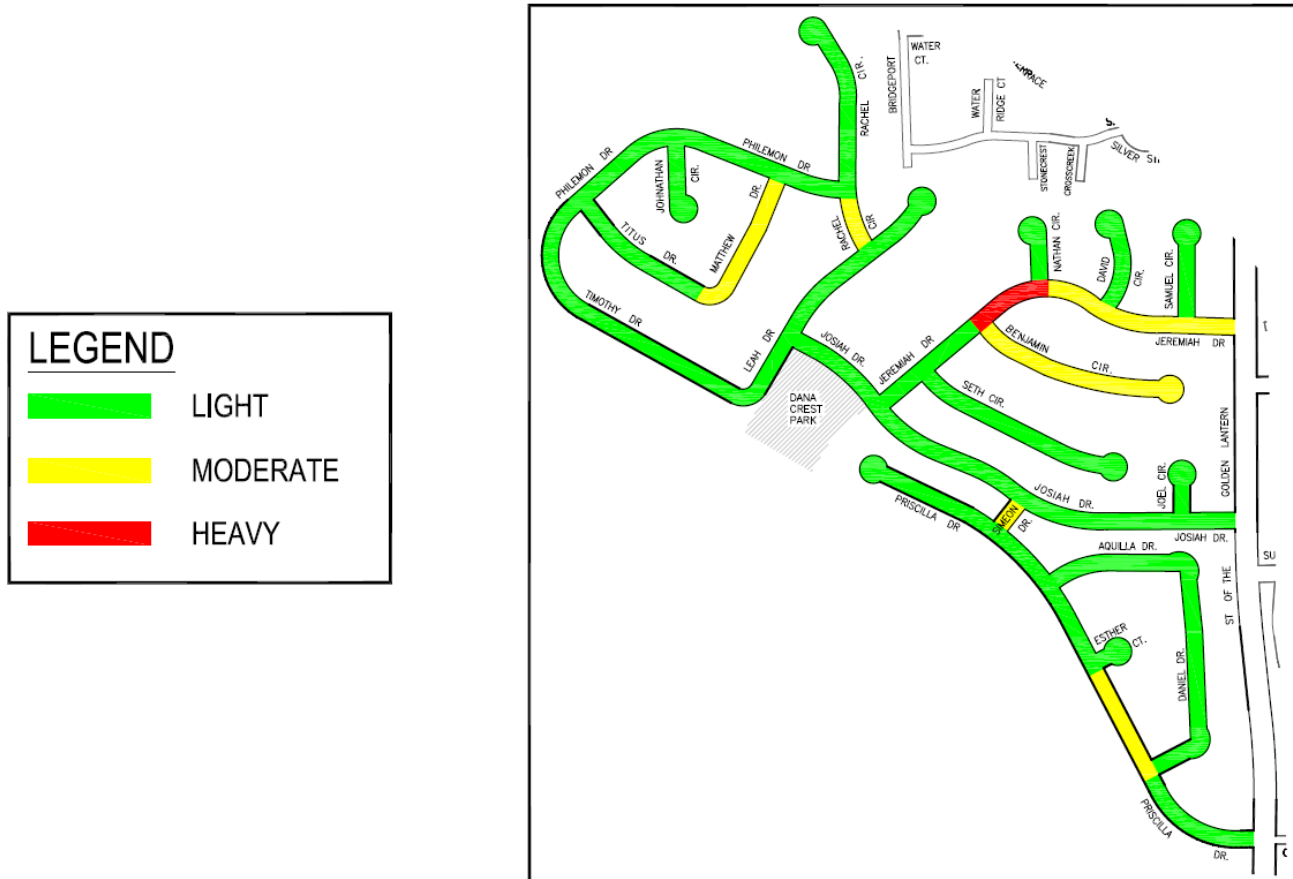


CITY OF DANA POINT
PARKING TRAFFIC ON STREET SWEEPING STREETS

TRAFFIC IMPROVEMENT SUBCOMMITTEE

STREET SWEEPING

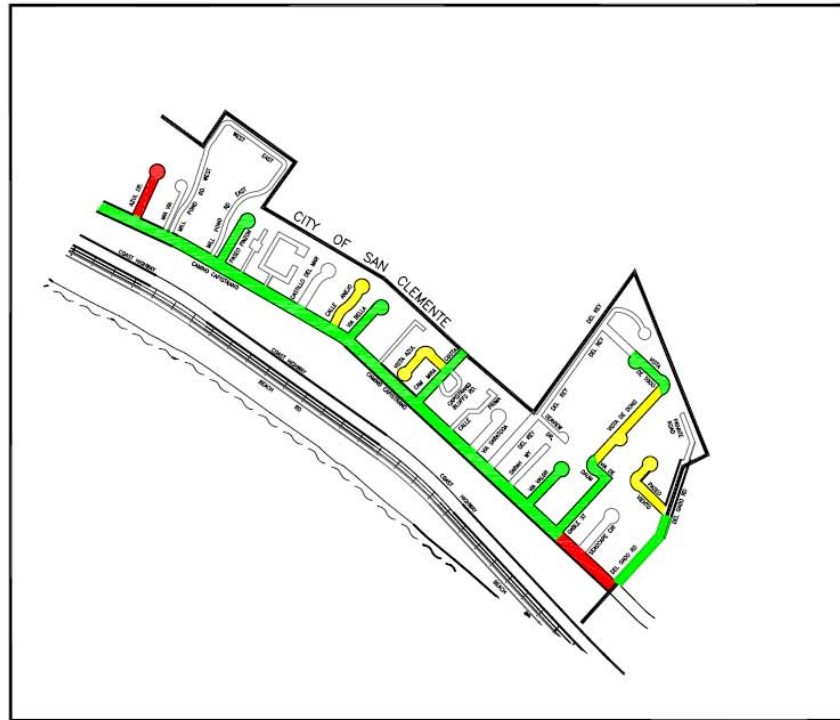
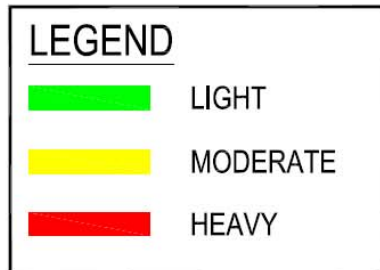
AREA NUMBER 10



CITY OF DANA POINT
PARKING TRAFFIC ON STREET SWEEPING STREETS

STREET SWEEPING

AREA NUMBER 11



CITY OF DANA POINT

PARKING TRAFFIC ON STREET SWEEPING STREETS

AREA NUMBER 12



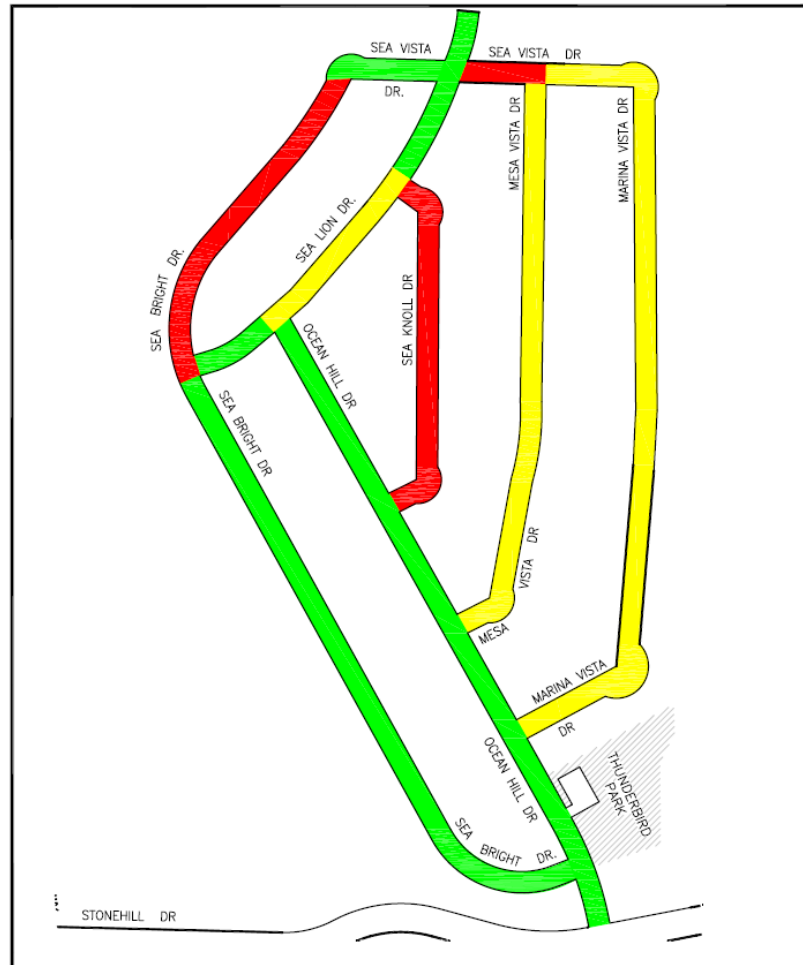
TRAFFIC IMPROVEMENT SUBCOMMITTEE

STREET SWEEPING

AREA NUMBER 13

LEGEND

- LIGHT
- MODERATE
- HEAVY



CITY OF DANA POINT
PARKING TRAFFIC ON STREET SWEEPING STREETS

OBSERVATIONS

- Higher density zoned areas generally = more parked cars
- Older tracts with fewer garage spaces/smaller lots = more parked cars
- Some collector streets have fewer parked cars.
- Several isolated/arterial streets have a significant problem with more parked cars.

Disadvantages with Additional Posted Areas

- Higher cost
 - Annual Enforcement Cost (\$27 ticket offset)
 - Signage Installation/Maintenance Cost
- Additional Signage Visual Concerns
- Public Ticketing Complaints

TRAFFIC IMPROVEMENT SUBCOMMITTEE

Approximate Street Sweeping Cost Estimate (+/- 25%)							
Number	AREA	APPROX. FOOTAGE BY AREA (LF)	APPROX. # OF SIGNS NEEDED	COST PER SIGN	TOTAL APPROX. ONE TIME COST TO POST AREA	APPROX. NUMBER OF SWEEPING HOURS	APPROX. COST OF ENFORCEMENT PER YEAR (\$44.32/HOUR) (TICKET REVENUE OFFSET)
Citywide	Arterial Streets per Map	23670	242	\$75	\$18,150	4	\$9,218.56
1	Capo Beach - Doheny Park Rd.	14490	155	\$75	\$11,625	2	\$4,609.28
2	Blue Lantern/Alta Vista	15700	136	\$75	\$10,200	1	\$2,304.64
3	Chula Vista	5550	60	\$75	\$4,500	0.5	\$1,152.32
4	Westborne Area/Evans Pointe	11140	126	\$75	\$9,450	1	\$2,304.64
5	Capo Beach - NW	31470	340	\$75	\$25,500	2	\$4,609.28
6	Acapulco	31700	350	\$75	\$26,250	2	\$4,609.28
7	Capo Beach - North of I-5 Freeway	38000	407	\$75	\$30,525	4	\$9,218.56
8	Capo Beach - Central Capo/Palisades	68800	752	\$75	\$56,400	4	\$9,218.56
9	Palo Alto Area	25500	282	\$75	\$21,150	2	\$4,609.28
10	Bible Belt	29230	334	\$75	\$25,050	4	\$9,218.56
11	Capo Beach - Camino Cap./City Limits	18660	203	\$75	\$15,225	3	\$6,913.92
12	Dana Woods	20810	252	\$75	\$18,900	1.5	\$3,456.96
13	Ocean Hill Area	23600	256	\$75	\$19,200	2	\$4,609.28
TOTAL COSTS					\$292,125		\$76,053.12

Signage



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STREET SWEEPING

OVERALL CITYWIDE TONNAGE FOR 2009 :

Month	January	February	March	April	May	June
2009	42.68	43.3	45.36	47.58	39.8	52.66

TRAFFIC IMPROVEMENT SUBCOMMITTEE

RECOMMENDATION :

- *Consider whether additional posting warrants further investigation;*
- *If So, then authorize staff to notify the Public by neighborhood and return to the Traffic Improvement Subcommittee to discuss posting any of the following areas for street sweeping (select any for consideration)*

City of Dana Point
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August 19, 2009

BLUE LANTERN STONEHILL TO SELVA ROAD (SOUTHBOUND)



BLUE LANTERN STONEHILL TO SELVA ROAD (NORTHBOUND)



BLUE LANTERN SELVA ROAD TO LA CRESTA (SOUTHBOUND)



BLUE LANTERN SELVA ROAD TO LA CRESTA (NORTHBOUND)



BLUE LANTERN LA CRESTA TO PCH (SOUTHBOUND)



BLUE LANTERN

LA CRESTA TO PCH (NORTHBOUND)

