

## PROGRAM FOR ARTERIAL SYSTEM SYNCHRONIZATION (PASS)

FY21/22 CYCLE

#### **PROGRAM SUMMARY**

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# PASS FY21/22 Cycle Program Summary

#	County	Project Sponsors	# of Traffic Signals	Timing Plans/Services	Project Consultant	
1	AL	Alameda County	12	Weekday AM/midday/PM peaks	DKS Associates	
2	СС	City of Clayton	9	Weekday AM/PM peaks	Kimley-Horn and Associates	
3	AL	City of Fremont	36	Weekday AM/midday/PM school/PM peaks, Weekend peak/off-peak	Kimley-Horn and Associates	
4	MR	Marin County	12	Weekday and Weekend AM/midday/PM peaks, advanced programming/fine-tuning	DKS Associates	
5	SM	City of Millbrae	18	Weekday AM/midday/PM peaks	DKS Associates	
6	SM	City of San Mateo	10	Weekday AM/midday/PM peaks	DKS Associates	
Total Signals			97			

Note: AL = Alameda, CC = Contra Costa, MR = Marin, SM = San Mateo

#### **Benefit/Cost Summary\*:**

Total Lifetime Benefits: \$8,630,732

Total Program Costs: \$651,005

Overall Program Benefit/Cost Ratio: 13:1

#### LIFETIME (5 YRS) PROGRAM BENEFITS:



Auto Travel Time Savings: 9% (312,000 hrs.)



Average Increase in Auto Speed: 15%



Fuel Consumption Savings: 3% (150,000 gal.)



Total Emissions Reduced: 19 tons

(ROG, NOx, PM2.5, CO)

<sup>\*</sup>Program benefits are assumed to be 100% on the first day after implementation of the new timing plans, declining steadily to zero by the end of the fifth year.

### PASS FY21/22 Cycle Summary of Benefits

	Lifetime (5 Years) Project Benefits		Clayton	Fremont	Marin County	Millbrae	San Mateo
	Benefit/Cost Ratio	10	8	14	18	13	9
	Auto Travel Time Savings (%)	7%	16%	12%	11%	5%	3%
	Auto Travel Time Savings (hours)	17,712	11,275	175,296	59,978	32,934	14,711
	Average Reduction in Auto Signal Delay (%)	28%	52%	52%	41%	-9% (increase)	-29% (increase)
	Average Reduction in Number of Stops (%)	9%	45%	45%	19%	-26% (increase)	51%
	Average Speed Before (mph)	21	29	26	21	20	13
	Average Speed After (mph)	23	34	30	24	21	14
	Fuel Consumption Savings (%)	1%	6%	3%	1%	2%	2%
	Fuel Consumption Savings (gallons)	5,516	6,712	92,951	19,668	16,942	8,441
CO	Total Emissions Reduction (tons)	1.52	0.58	10.75	5.71	1.39	-0.75 (increase)