#### CHAPTER 7

# ASSESSMENT OF CEQAALTERNATIVES

Introduction

CEQA Alternative 2—VOC/NOx Combined Alternative

**Comparison of Socioeconomic Impacts** 

Summary

## INTRODUCTION

The California Environmental Quality Act (CEQA) requires that the District propose alternatives to the 2007 AQMP. These alternatives should include realistic measures to attain the basic objectives of the proposed project and provide the means for evaluating the comparative merits of each alternative. The range of alternatives must be sufficient to permit a reasonable choice but need not include every conceivable project alternative. The CEQA Alternatives to the 2007 AQMP are CEQA Alternative 1 (No Project Alternative, which is the 2003 AQMP) and CEQA Alternative 2 (VOC/NOx Combined Alternative or Least Toxic Alternative). The Socioeconomic Report herein evaluates those alternatives that meet attainment of the air quality standards. CEQA Alternative 1 falls short of attaining the standards; therefore, it is not analyzed herein.

### **CEQA ALTERNATIVE 2—VOC/NOX COMBINED ALTERNATIVE**

CEQA Alternative 2 recreates the traditional AQMP reductions strategy for attainment where VOC and NOx emissions are reduced in approximately equal combinations to ensure both ozone and particulate matter concentrations are lowered. This alternative contains all of the same short- and long-term control measures as the Plan, but differs in the composition of the black box long-term control measure. Compared to the NOx black box for mobile sources in the Plan, CEQA Alternative 2 has more VOC and less NOx reductions from stationary and mobile sources.

#### COMPARISON OF SOCIOECONOMIC IMPACTS

Table 7-1 compares the direct costs, direct air quality benefits, and job impacts of the VOC/NOx Combined Alternative to the 2007 AQMP. The monetary cost and benefit analysis includes both quantified and unquantified measures and quantified benefits. Since the Socioeconomic Report is performed on an annual basis, no job analysis can be performed for the unquantified control measures. The quantified measures represent only 47 percent of the intended emission reductions for clean air. Therefore, the job analysis for the cost of control measures in Table 7-1 represents the job impacts from implementing only 47 percent of the emission reductions. The clean air benefit in Table 7-1, on the other hand, depicts the air quality benefit of all the intended emission reductions for attainment. Therefore, its associated job impact includes the air quality benefit of all the emission reductions.

Average Annual Impacts of AQMP and CEQA Alternatives										
	Alternatives	Costs		Quantified Benefits						
		Millions of	Jobs*	Millions of 2000	Jobs					
		2000 Dollars	J008.	Dollars						
	2007 AQMP	\$2,294	-28,279	\$14,592	61,409					
	VOC/NOx Combined	\$2,494	-28,279	\$14,533	61,268					
	Alternative	$\psi 2, \tau 7 \tau$			01,200					

**TABLE 7-1** 

<sup>\*</sup>Reflect only the impacts of quantifiable measures.

The higher cost under the VOC/NOx Combined Alternative reflects different distribution of emission reductions in the black boxes under this alternative and the Plan.

The VOC/NOx Combined Alternative is projected to have lower air quality benefits than the 2007 AQMP. The VOC/NOx Combined Alternative has the same PM<sub>2.5</sub> attainment benefit as the Plan. Thus, only benefit categories associated with ozone concentrations would show differences between the VOC/NOx Combined Alternative and the Plan. For example, the ozone health benefit under the Plan is larger than that of the VOC/NOx Combined Table 7-2 shows the distribution of quantified benefits for these two Alternative. alternatives among different benefit categories.

Average Annual Quantified Benefits by Category by Alternative (millions of 2000 dollars)										
CEQA Alternatives	Total	Health	Visibility	Congestio n Relief	Material	Crop Yield				
2007 AQMP	\$14,592	\$9,772	\$3,631	\$966	\$204.2	\$18.4				
VOC/NOx	\$14,533	\$9,714	\$3,631	\$966	\$204.0	\$18.0				

\$14,533

**TABLE 7-2** 

Both the AQMP and the VOC/NOx Combined Alternative are demonstrated to meet the federal air quality standards for ozone and PM2.5. The VOC/NOx Combined Alternative has lower air quality benefits, but higher implementation cost than the Plan.

#### **SUMMARY**

CombinedAlternative

The Socioeconomic Report can affect the selection of alternatives to the proposed Plan as identified in the Environmental Assessment for the 2007 AQMP. In considering whether to adopt the Plan or one of the alternatives, the District Governing Board will select the alternative that presents the best balance of greatest socioeconomic and environmental benefits and least adverse environmental and socioeconomic impacts.

The No Project Alternative, which is the 2003 AQMP, would not reach attainment of air quality standards. Both the 2007 AQMP and CEQA Alternative 2—VOC/NOx Combined Alternative—are demonstrated to meet the federal air quality standards for ozone and  $PM_{2.5.}^{1}$  The VOC/NOx Combined Alternative has higher cost and lower air quality benefit than the Plan.

Significant NOx reductions are necessary and they are more effective than VOC reductions to attain the  $PM_{2.5}$  standard in 2014. Built upon the  $PM_{2.5}$  strategy, further NOx reductions are still needed even with substantial VOC reductions in order to attain the ozone standard. The NOx-heavy strategy in this Plan was chosen to meet both standards and provide greater certainty to reach attainment due to less total reductions (VOC and NOx) required. Downwind areas also benefit more from this strategy. Moreover, VOC controls at this time are less advanced than NOx controls.

Quantified air quality benefits of the 2007 AQMP and the VOC/NOx Combined Alternative are projected to foster continued growth of the local economy. Overall, the Plan results in a lower implementation cost and a higher number of jobs gained from clean air.

<sup>&</sup>lt;sup>1</sup>The VOC/NOx Combined Alternative has the same short-term measures as the 2007 AQMP but has more VOC and less NOx reductions for the "black-box" commitment; it also attains the 8-hour ozone standard by 2023. Since Alternative 2 has more VOC reductions, it is assumed that more concurrent toxic reductions would occur than the 2007 AQMP.