Appendix C Air Quality Impact Analysis



Buena Park General Plan & Zoning Code Update AIR QUALITY IMPACT ANALYSIS CITY OF BUENA PARK

PREPARED BY:

Haseeb Qureshi hqureshi@urbanxroads.com

Ali Dadabhoy adadabhoy@urbanxroads.com

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LIST OF ABBREVIATED TERMS

% Percent

°F Degrees Fahrenheit

(1) Reference

μg/m³ Microgram per Cubic Meter

1992 CO Plan 1992 Federal Attainment Plan for Carbon Monoxide

1993 CEQA Handbook SCAQMD's CEQA Air Quality Handbook (1993)

2016-2040 RTP/SCS 2016-2040 Regional Transportation Plan/Sustainable

Communities Strategy

AADT Annual Average Daily Truck Traffic

AB 2595 California Clean Air Act

ADA Americans with Disabilities Act

AQIA Air Quality Impact Analysis

AQMP Air Quality Management Plan

BACT Best Available Control Technology

BC Black Carbon

Brief Brief of Amicus Curiae by the SCAQMD in the Friant Ranch

Case

 C_2Cl_4 Perchloroethylene C_4H_6 1,3-butadiene

C₆H₆ Benzene

 C_2H_3Cl Vinyl Chloride C_2H_4O Acetaldehyde

CAA Federal Clean Air Act

CAAQS California Ambient Air Quality Standards
CalEEMod California Emissions Estimator Model

CalEPA California Environmental Protection Agency
CALGreen California Green Building Standards Code

CAP Climate Action Plan

CAPCOA California Air Pollution Control Officers Association

CARB California Air Resources Board
CCR California Code of Regulations
CEC California Energy Commission

CEQA California Environmental Quality Act
CEQA Guidelines 2019 CEQA Statute and Guidelines

CH₂O Formaldehyde City City of Buena Park



CO Carbon Monoxide
COH Coefficient of Haze
COHb Carboxyhemoglobin

Cr(VI) Chromium

CTP Clean Truck Program
DPM Diesel Particulate Matter
DRRP Diesel Risk Reduction Plan

EC Elemental Carbon

EIR Environmental Impact Report

EMFAC EMissions FACtor Model

EPA Environmental Protection Agency

ETW Equivalent Test Weight

EV Electric Vehicle

EVSE Electric Vehicle Supply Equipment

GHG Greenhouse Gas

GVWR Gross Vehicle Weight Rating

H₂S Hydrogen Sulfide HDT Heavy Duty Trucks

HHDT Heavy-Heavy-Duty Trucks

HI Hazard Index hp Horsepower

HRA Health Risk Assessment

HVIP Hybrid and Zero-Emission Truck and Bus Voucher Incentive

Project

I-210 Interstate 210

lbs Pounds

lbs/dayPounds Per DayLDALight Duty AutoLDT1/LDT2Light-Duty Trucks

LHDT1/LHDT2 Light-Heavy-Duty Trucks

LST Localized Significance Threshold

LST Methodology Final Localized Significance Threshold Methodology

MARB/IPA March Air Reserve Base/Inland Port Airport

MATES Multiple Air Toxics Exposure Study

MCY Motorcycles

MDV Medium-Duty Vehicles

MERV Maximum Efficiency Rating Value
MHDT Medium-Heavy-Duty Trucks



MICR Maximum Individual Cancer Risk

MM Mitigation Measures

mph Miles Per Hour

MWELO California Department of Water Resources' Model Water

Efficient

N₂ Nitrogen

N₂O Nitrous Oxide

NAAQS National Ambient Air Quality Standards

NB Northbound NO Nitric Oxide

NO₂ Nitrogen Dioxide NO_X Nitrogen Oxides

 O_2 Oxygen O_3 Ozone

O₂ Deficiency Chronic Hypoxemia
OBD-II On-Board Diagnostic

ODC Ozone Depleting Compounds

Pb Lead

PM₁₀ Particulate Matter 10 microns in diameter or less PM_{2.5} Particulate Matter 2.5 microns in diameter or less

PMI Point of Maximum Impact

POLA Port of Los Angeles
POLB Port of Long Beach
ppm Parts Per Million

Project Buena Park General Plan & Zoning Code Update

RECLAIM Regional Clean Air Incentives Market RFG-2 Reformulated Gasoline Regulation

ROG Reactive Organic Gases

SB Southbound

SCAB South Coast Air Basin

SCAG Southern California Association of Governments
SCAQMD South Coast Air Quality Management District

sf Square Feet

SIPs State Implementation Plans

SJVUAPCD San Joaquin Valley Unified Air Pollution Control District

SO₂ Sulfur Dioxide

SO₄ Sulfates

SO_X Sulfur Oxides



SoCalGas The Southern California Gas Company

SOON Surplus Off-Road Opt-in for Nitrogen Oxides

SRA Source Receptor Area
TAC Toxic Air Contaminant

TDM Transportation Demand Management

Title 24 California Building Code
TITLE I Non-Attainment Provisions
TITLE II Mobile Sources Provisions

TMA Transportation Management Association

TOD Transit-Orientated Development

UFP Ultrafine Particles
URBEMIS URBan EMISsions
URF Unit Risk Factor

VICS Voluntary Interindustry Commerce Solutions
VIP On-road Heavy Duty Voucher Incentive Program

VMT Vehicle Miles Traveled

VOC Volatile Organic Compounds

WSAB West Santa Ana Branch

vph Vehicles Per Hour



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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Buena Park General Plan & Zoning Code Update Air Quality Impact Analysis* (AQIA) are summarized below based on the significance criteria in Section 3 of this report consistent with Appendix G of the *California Environmental Quality Act (CEQA) Guidelines (CEQA Guidelines)* (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA before and after any required mitigation measures (MM) described below.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Amahusta	Report	Significance Findings		
Analysis	Section	Unmitigated	Mitigated	
Regional Construction Emissions	3.4	Potentially Significant	Significant and Unavoidable	
Localized Construction Emissions	3.6	Potentially Significant	Significant and Unavoidable	
Regional Operational Emissions	3.5	Potentially Significant	Significant and Unavoidable	
Localized Operational Emissions	3.6	Potentially Significant	Significant and Unavoidable	
CO "Hot Spot" Analysis	3.6.2	Less Than Significant	n/a	
Air Quality Management Plan	3.7	Potentially Significant	Significant and Unavoidable	
Sensitive Receptors	3.6	Potentially Significant	Significant and Unavoidable	
Odors	3.8	Less Than Significant	n/a	
Cumulative Impacts	3.9	Potentially Significant	Significant and Unavoidable	



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1 INTRODUCTION

This report presents the results of the AQIA prepared by Urban Crossroads, Inc., for the proposed Buena Park General Plan & Zoning Code Update (Project). The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

1.1 PROJECT DESCRIPTION

The 6th Cycle Housing Element Update indicates that the City can accommodate approximately 10,322 dwelling units (DU)¹ through pending projects, its inventory of vacant and underutilized land, ADUs, and rezoned and mixed-use overlay sites. The mixed-use overlay sites will permit commercial development with floor-to-area ratios of 1.0, 1.5, and 3.0, which will result in 438,333 square feet (SF) of commercial space at an estimated 60% lot coverage. Through consultation with the City of Buena Park it was determined that the mix of total commercial SF be separated to 80% (350,667 square feet) retail uses and 20% (87,667 square feet) office uses. The commercial intensities within the mixed-use overlays are in addition to the permitted residential densities.

In order to achieve the increased number of housing units, the City must update the Land Use Element, Single Family Residential Zones, and Multifamily Residential Zones to allow increased densities under the land use designations and provide development standards under the zoning ordinance that accommodates increased densities up to 100 dwelling units per acre (du/ac). Housing Element sites summarized on Appendix 3.1. There are a total of 410 parcels identified as part of the 2021-2029 Housing Element Update.

The Air Quality Impact Analysis will evaluate the proposed development intensities expected for the 341 sites and assess the potential impacts that result from the implementation of the rezoning and changes to land use. Exhibit 1-A identifies the locations of each of the Housing Element sites shown on Appendix 3.1.

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¹ Housing units were calculated using the "Buena Park Adopted 6th Cycle HE_SITES INVENTORY".

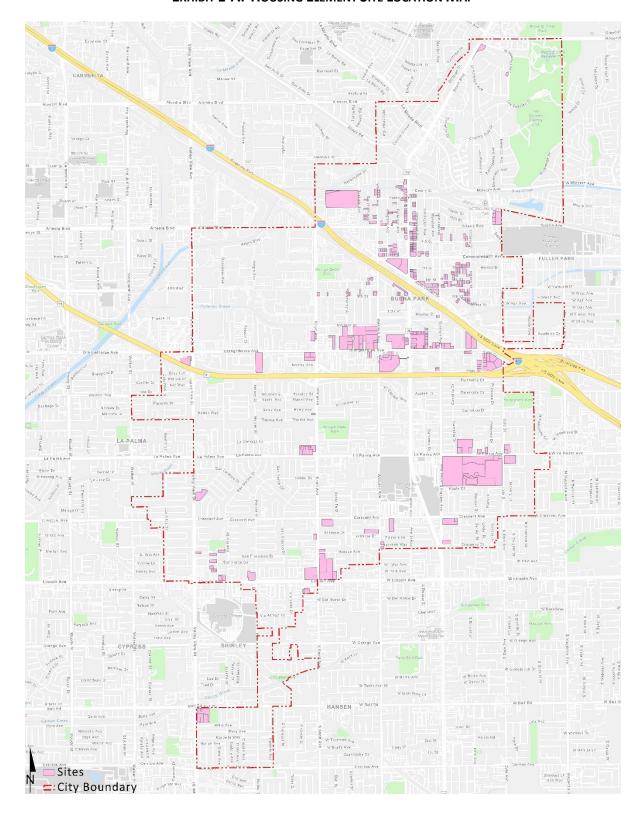


EXHIBIT 1-A: HOUSING ELEMENT SITE LOCATION MAP



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2 AIR QUALITY SETTING

This section provides an overview of the existing air quality conditions in the Project area and region.

2.1 SOUTH COAST AIR BASIN (SCAB)

The Project site is located in the SCAB within the jurisdiction of SCAQMD (2). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As previously stated, the Project site is located within the SCAB, a 6,745-square mile subregion of the SCAQMD, which includes portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Los Angeles County portion of the Mojave Desert Air Basin is bounded by the San Gabriel Mountains to the south and west, the Los Angeles / Kern County border to the north, and the Los Angeles / San Bernardino County border to the east. The Riverside County portion of the Salton Sea Air Basin is bounded by the San Jacinto Mountains in the west and spans eastward up to the Palo Verde Valley.

2.2 REGIONAL CLIMATE

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s degrees Fahrenheit (°F). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide (SO_2) to sulfates (SO_4) is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71% along the coast and 59% inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90% of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los



Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed "Santa Anas" each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the "Catalina Eddy," a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as NO_X and CO from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

2.3 WIND PATTERNS AND PROJECT LOCATION

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and



low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Winds are characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.

2.4 Criteria Pollutants

Criteria pollutants are pollutants that are regulated through the development of human health based and/or environmentally based criteria for setting permissible levels. Criteria pollutants, their typical sources, and health effects are identified below (3):

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
СО	CO is a colorless, odorless gas produced by the incomplete combustion of carbon-containing fuels, such as gasoline or wood. CO concentrations tend to be the highest during the winter morning, when little to no wind and surface-based inversions trap the pollutant at ground levels. Because CO is emitted directly from internal combustion engines, unlike ozone (O ₃), motor vehicles operating at slow speeds are the primary source of CO in the SCAB. The highest ambient CO concentrations are generally found near congested transportation corridors and intersections.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Individuals with a deficient blood supply to the heart are the most susceptible to the adverse effects of CO exposure. The effects observed include earlier onset of chest pain with exercise, and electrocardiograph changes indicative of decreased oxygen (O ₂) supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with O ₂ transport and competing with O ₂ to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for O ₂ supply can be adversely affected by exposure to CO. Individuals most at risk include fetuses, patients with diseases involving heart and blood vessels, and patients with chronic hypoxemia (O ₂ deficiency) as seen at high altitudes.



Criteria Pollutant	Description	Sources	Health Effects
SO ₂	SO ₂ is a colorless, extremely irritating gas or liquid. It enters the atmosphere as a pollutant mainly as a result of burning high sulfur-content fuel oils and coal and from chemical processes occurring at chemical plants and refineries. When SO ₂ oxidizes in the atmosphere, it forms SO ₄ . Collectively, these pollutants are referred to as sulfur oxides (SO _x).	Coal or oil burning power plants and industries, refineries, diesel engines	A few minutes of exposure to low levels of SO ₂ can result in airway constriction in some asthmatics, all of whom are sensitive to its effects. In asthmatics, increase in resistance to air flow, as well as reduction in breathing capacity leading to severe breathing difficulties, are observed after acute exposure to SO ₂ . In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO ₂ . Animal studies suggest that despite SO ₂ being a respiratory irritant, it does not cause substantial lung injury at ambient concentrations. However, very high levels of exposure can cause lung edema (fluid accumulation), lung tissue damage, and sloughing off of cells lining the respiratory tract. Some population-based studies indicate that the mortality and morbidity effects associated with fine particles show a similar association with ambient SO ₂ levels. In these studies, efforts to separate the effects of SO ₂ from those of fine particles have not been successful. It is not clear whether the two pollutants act synergistically, or one pollutant alone is the predominant factor.



Criteria Pollutant	Description	Sources	Health Effects
NO _X	NO _X consist of nitric oxide (NO), nitrogen dioxide (NO ₂) and nitrous oxide (N ₂ O) and are formed when nitrogen (N ₂) combines with O ₂ . Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. NO _X is typically created during combustion processes and are major contributors to smog formation and acid deposition. NO ₂ is a criteria air pollutant and may result in numerous adverse health effects; it absorbs blue light, resulting in a brownish-red cast to the atmosphere and reduced visibility. Of the seven types of NO _X compounds, NO ₂ is the most abundant in the atmosphere. As ambient concentrations of NO ₂ are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO ₂ than those indicated by regional monitoring station.	Any source that burns fuel such as automobiles, trucks, heavy construction equipment, farming equipment and residential heating.	Population-based studies suggest that an increase in acute respiratory illness, including infections and respiratory symptoms in children (not infants), is associated with long-term exposure to NO ₂ at levels found in homes with gas stoves, which are higher than ambient levels found in Southern California. Increase in resistance to air flow and airway contraction is observed after short-term exposure to NO ₂ in healthy subjects. Larger decreases in lung functions are observed in individuals with asthma or chronic obstructive pulmonary disease (e.g., chronic bronchitis, emphysema) than in healthy individuals, indicating a greater susceptibility of these sub-groups. In animals, exposure to levels of NO ₂ considerably higher than ambient concentrations result in increased susceptibility to infections, possibly due to the observed changes in cells involved in maintaining immune functions. The severity of lung tissue damage associated with high levels of O ₃ exposure increases when animals are exposed to a combination of O ₃ and NO ₂ .
O ₃	O ₃ is a highly reactive and unstable gas that is formed when VOCs and NO _x , both byproducts of internal combustion engine exhaust, undergo slow photochemical reactions in the presence of sunlight. O ₃ concentrations are generally highest during the summer	Formed when reactive organic gases (ROG) and NO _X react in the presence of sunlight. ROG sources include any source	Individuals exercising outdoors, children, and people with preexisting lung disease, such as asthma and chronic pulmonary lung disease, are considered to be the most susceptible subgroups for O ₃ effects. Shortterm exposure (lasting for a



	Description	Sources	Health Effects
Criteria Pollutant Description months when direct sunlight,		that burns fuels,	few hours) to O₃ at levels
	light wind, and warm	(e.g., gasoline,	typically observed in
	temperature conditions are	natural gas, wood,	Southern California can result
	favorable to the formation of this	oil) solvents,	in breathing pattern changes,
	pollutant.	petroleum	reduction of breathing
	•	processing and	capacity, increased
		storage and	susceptibility to infections,
		pesticides.	inflammation of the lung
			tissue, and some
			immunological changes.
			Elevated O₃ levels are
			associated with increased
			school absences. In recent
			years, a correlation between
			elevated ambient O₃ levels
			and increases in daily hospital
			admission rates, as well as
			mortality, has also been
			reported. An increased risk
			for asthma has been found in
			children who participate in
			multiple outdoor sports and
			reside in communities with
			high O₃ levels.
			O ₃ exposure under exercising conditions is known to increase the severity of the responses described above. Animal studies suggest that exposure to a combination of pollutants that includes O ₃ may be more toxic than exposure to O ₃ alone. Although lung volume and resistance changes observed after a single exposure diminish with repeated exposures, biochemical and cellular changes appear to persist, which can lead to subsequent lung structural changes.
Particulate Matter	PM ₁₀ : A major air pollutant consisting of tiny solid or liquid particles of soot, dust, smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light	Sources of PM ₁₀ include road dust, windblown dust and construction. Also formed from other pollutants (acid rain, NO _x , SO _x ,	A consistent correlation between elevated ambient fine particulate matter (PM ₁₀ and PM _{2.5}) levels and an increase in mortality rates, respiratory infections, number and severity of



Criteria Pollutant	Description	Sources	Health Effects
Criteria Pollutant	and consequently the significant reduction air clarity. The size of the particles (10 microns or smaller, about 0.0004 inches or less) allows them to easily enter the lungs where they may be deposited, resulting in adverse health effects. Additionally, it should be noted that PM ₁₀ is considered a criteria air pollutant. PM _{2.5} : A similar air pollutant to PM ₁₀ consisting of tiny solid or liquid particles which are 2.5 microns or smaller (which is often referred to as fine particles). These particles are formed in the atmosphere from primary gaseous emissions that include SO ₄ formed from SO ₂ release from power plants and industrial facilities and nitrates that are formed from NO _x release from power plants, automobiles, and other types of combustion sources. The chemical composition of fine particles highly depends on location, time of year, and weather conditions. PM _{2.5} is a criteria air pollutant.	organics). Incomplete combustion of any fuel. PM _{2.5} comes from fuel combustion in motor vehicles, equipment, and industrial sources, residential and agricultural burning. Also formed from reaction of other pollutants (acid rain, NO _x , SO _x , organics).	asthma attacks and the number of hospital admissions has been observed in different parts of the United States and various areas around the world. In recent years, some studies have reported an association between long-term exposure to air pollution dominated by fine particles and increased mortality, reduction in lifespan, and an increased mortality from lung cancer. Daily fluctuations in PM _{2.5} concentration levels have also been related to hospital admissions for acute respiratory conditions in children, to school and kindergarten absences, to a decrease in respiratory lung volumes in normal children, and to increased medication use in children and adults with asthma. Recent studies show lung function growth in children is reduced with long term exposure to particulate matter. The elderly, people with preexisting respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM ₁₀ and PM _{2.5} .
VOC	VOCs are hydrocarbon compounds (any compound containing various combinations of hydrogen and carbon atoms) that exist in the ambient air. VOCs contribute to the formation of smog through atmospheric photochemical reactions and/or may be toxic. Compounds of carbon (also known as organic compounds) have different levels of reactivity; that is, they do not react at the same speed or do not	Organic chemicals are widely used as ingredients in household products. Paints, varnishes, and wax all contain organic solvents, as do many cleaning, disinfecting, cosmetic, degreasing and hobby products.	Breathing VOCs can irritate the eyes, nose, and throat, can cause difficulty breathing and nausea, and can damage the central nervous system as well as other organs. Some VOCs can cause cancer. Not all VOCs have all these health effects, though many have several.



Criteria Pollutant	Description	Sources	Health Effects
	form O ₃ to the same extent when exposed to photochemical processes. VOCs often have an odor, and some examples include gasoline, alcohol, and the solvents used in paints. Exceptions to the VOC designation include CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate. VOCs are a criteria pollutant since they are a precursor to O ₃ , which is a criteria pollutant. The terms VOC and ROG (see below) interchangeably.	Fuels are made up of organic chemicals. All of these products can release organic compounds while you are using them, and, to some degree, when they are stored.	
ROG	Similar to VOC, ROGs are also precursors in forming O ₃ and consist of compounds containing methane, ethane, propane, butane, and longer chain hydrocarbons, which are typically the result of some type of combustion/decomposition process. Smog is formed when ROG and NO _X react in the presence of sunlight. ROGs are a criteria pollutant since they are a precursor to O ₃ , which is a criteria pollutant. The terms ROG and VOC (see previous) interchangeably.	Sources similar to VOCs.	Health effects similar to VOCs.
Lead (Pb)	Pb is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of Pb in the air was emissions from vehicles burning leaded gasoline. The major sources of Pb emissions are ore and metals processing, particularly Pb smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and lead-acid battery manufacturers. It should be noted that the Project does not include	Metal smelters, resource recovery, leaded gasoline, deterioration of Pb paint.	Fetuses, infants, and children are more sensitive than others to the adverse effects of Pb exposure. Exposure to low levels of Pb can adversely affect the development and function of the central nervous system, leading to learning disorders, distractibility, inability to follow simple commands, and lower intelligence quotient. In adults, increased Pb levels are associated with increased blood pressure.



Criteria Pollutant	Description	Sources	Health Effects
	operational activities such as		Pb poisoning can cause
	metal processing or Pb acid		anemia, lethargy, seizures,
	battery manufacturing. As such,		and death; although it
	the Project is not anticipated to		appears that there are no
	generate a quantifiable amount		direct effects of Pb on the
	of Pb emissions.		respiratory system. Pb can be
			stored in the bone from early
			age environmental exposure,
			and elevated blood Pb levels
			can occur due to breakdown
			of bone tissue during
			pregnancy, hyperthyroidism
			(increased secretion of
			hormones from the thyroid
			gland) and osteoporosis
			(breakdown of bony tissue).
			Fetuses and breast-fed babies
			can be exposed to higher
			levels of Pb because of
			previous environmental Pb
			exposure of their mothers.
Odor	Odor means the perception	Odors can come	Offensive odors can
	experienced by a person when	from many sources	potentially affect human
	one or more chemical substances	including animals,	health in several ways. First,
	in the air come into contact with	human activities,	odorant compounds can
	the human olfactory nerves (4).	industry, natures,	irritate the eye, nose, and
	, , , , , , , , , , , , , , , , , , , ,	and vehicles.	throat, which can reduce
			respiratory volume. Second,
			studies have shown that the
			VOCs that cause odors can
			stimulate sensory nerves to
			cause neurochemical changes
			that might influence health,
			for instance, by
			compromising the immune
			system. Finally, unpleasant
			odors can trigger memories
			or attitudes linked to
			unpleasant odors, causing
			cognitive and emotional
			effects such as stress.



2.5 EXISTING AIR QUALITY

Existing air quality is measured at established SCAQMD air quality monitoring stations. Monitored air quality is evaluated in the context of ambient air quality standards. These standards are the levels of air quality that are considered safe, with an adequate margin of safety, to protect the public health and welfare. NAAQS and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (5).

The determination of whether a region's air quality is healthful or unhealthful is determined by comparing contaminant levels in ambient air samples to the state and federal standards. At the time of this AQIA, the most recent state and federal standards were updated by CARB on May 4, 2016, as presented in Table 2-2. The air quality in a region is considered to be in attainment by the state if the measured ambient air pollutant levels for O₃, CO (except 8-hour Lake Tahoe), SO₂ (1 and 24 hour), NO₂, PM₁₀, and PM_{2.5} do not exceed standards. All others are not to be equaled or exceeded. It should be noted that the three-year period is presented for informational purposes and is not the basis for how the State assigns attainment status. Attainment status for a pollutant means that the SCAQMD meets the standards set by the EPA or the California EPA (CalEPA). Conversely, nonattainment means that an area has monitored air quality that does not meet the NAAQS or CAAQS standards. In order to improve air quality in nonattainment areas, CARB has implemented a State Implementation Plan (SIP). The SIP outlines the measures that the state will take to improve air quality. Once nonattainment areas meet the standards and additional redesignation requirements, the EPA will designate the area as a maintenance area (6).



TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (1 OF 2)

Ambient Air Quality Standards							
E THE STATE OF	Averaging California Standards ¹			National Standards ²			
Pollutant	Time	Concentration 3	Method ⁴	Primary 3,5	Secondary 3,6	Method 7	
Ozone (O ₃) ⁸	1 Hour	0.09 ppm (180 μg/m³)	Ultraviolet	_	Same as	Ultraviolet Photometry	
O2011C (O3)	8 Hour	0.070 ppm (137 µg/m³)	Photometry	0.070 ppm (137 µg/m³)	Primary Standard		
Respirable Particulate	24 Hour	50 μg/m ³	Gravimetric or	150 μg/m ³	Same as	Inertial Separation and Gravimetric	
Matter (PM10) ⁹	Annual Arithmetic Mean	20 μg/m ³	Beta Attenuation	2 <u>2—</u> 27	Primary Standard	Analysis	
Fine Particulate	24 Hour	-	_	35 μg/m ³	Same as Primary Standard	Inertial Separation	
Matter (PM2.5) ⁹	Annual Arithmetic Mean	12 μg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 μg/m ³	and Gravimetric Analysis	
Carbon	1 Hour	20 ppm (23 mg/m ³)	N. S.	35 ppm (40 mg/m ³)		N. P.	
Monoxide	8 Hour	9.0 ppm (10 mg/m ³)	Non-Dispersive Infrared Photometry (NDIR)	9 ppm (10 mg/m³)	5 77	Non-Dispersive Infrared Photometry (NDIR)	
(CO)	8 Hour (Lake Tahoe)	6 ppm (7 mg/m ³)		2 <u></u> 37	<u>8-0</u>		
Nitrogen Dioxide	1 Hour	0.18 ppm (339 μg/m³)	Gas Phase Chemiluminescence	100 ppb (188 μg/m³)	_	Gas Phase Chemiluminescence	
(NO ₂) ¹⁰	Annual Arithmetic Mean	0.030 ppm (57 μg/m³)		0.053 ppm (100 μg/m³)	Same as Primary Standard		
	1 Hour	0.25 ppm (655 μg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	_	Ultraviolet Flourescence; Spectrophotometry (Pararosaniline Method)	
Sulfur Dioxide	3 Hour	-		-	0.5 ppm (1300 μg/m³)		
(SO ₂) ¹¹	24 Hour	0.04 ppm (105 µg/m ³)		0.14 ppm (for certain areas) ¹¹	<u>(200</u> 2		
	Annual Arithmetic Mean	-		0.030 ppm (for certain areas) ¹¹	_		
	30 Day Average	1.5 μg/m ³		-	-)	
Lead ^{12,13}	Calendar Quarter	-	Atomic Absorption	1.5 µg/m ³ (for certain areas) ¹²	Same as	High Volume Sampler and Atomi Absorption	
	Rolling 3-Month Average	-		0.15 μg/m ³	Primary Standard		
Visibility Reducing Particles ¹⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National			
Sulfates	2 <mark>4</mark> Hour	25 μg/m³	Ion Chromatography				
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m³)	Ultraviolet Fluorescence				
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 µg/m³)	Gas Chromatography				

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TABLE 2-2: AMBIENT AIR QUALITY STANDARDS (2 OF 2)

- California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and
 particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be
 equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the
 California Code of Regulations.
- 2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 µg/m³ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
- 3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of
 the air quality standard may be used.
- 5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
- 8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- 9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 μg/m³ to 12.0 μg/m³. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 μg/m³, as was the annual secondary standard of 15 μg/m³. The existing 24-hour PM10 standards (primary and secondary) of 150 μg/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- 10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- 11. On June 2, 2010, a new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
 - Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
- 12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- 13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 µg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- 14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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2.6 REGIONAL AIR QUALITY

Air pollution contributes to a wide variety of adverse health effects. The EPA has established NAAQS for six of the most common air pollutants: CO, Pb, O_3 , particulate matter (PM₁₀ and PM_{2.5}), NO₂, and SO₂ which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Pb air monitoring sites throughout the air district (7). On December 28, 2021, CARB posted the proposed 2021 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (8). Appendix 2.1 provides geographic representation of the state and federal attainment status for applicable criteria pollutants within the SCAB.

TABLE 2-3: ATTAINMENT STATUS OF CRITERIA POLLUTANTS IN THE SCAB

Criteria Pollutant	State Designation	Federal Designation
O ₃ – 1-hour standard	Nonattainment	
O ₃ – 8-hour standard	Nonattainment	Nonattainment
PM ₁₀	Nonattainment	Attainment
PM _{2.5}	Nonattainment	Nonattainment
СО	Attainment	Unclassifiable/Attainment
NO ₂	Attainment	Unclassifiable/Attainment
SO ₂	Attainment	Unclassifiable/Attainment
Pb ²	Attainment	Unclassifiable/Attainment

Note: See Appendix 2.1 for a detailed map of State/National Area Designations within the SCAB

2.7 LOCAL AIR QUALITY

The SCAQMD has designated general forecast areas and air monitoring areas (referred to as Source Receptor Areas [SRA]) throughout the district in order to provide Southern California residents about the air quality conditions. The Project site is located within the North Orange County area (SRA 16). The North Orange County monitoring station, located within SRA 16 and is located 2.61 miles northeast of the Project site, monitors air quality data for O₃, CO, and NO₂. For PM₁₀ and PM_{2.5} data, the Central Orange County monitoring station, located in SRA 17 and 2.57 miles southeast of the Project site, was utilized. It should be noted that the Central Orange County station was utilized in lieu of the North Orange County monitoring station only in instances where data was not available.

The most recent three (3) years of data available is shown on Table 2-4 and identifies the number of days ambient air quality standards were exceeded for the study area, which is considered to be representative of the local air quality at the Development Site. Data for O₃, CO, NO₂, PM₁₀, and PM_{2.5} for 2018 through 2020 was obtained from the SCAQMD Air Quality Data Tables (9).



[&]quot;-" = The national 1-hour O_3 standard was revoked effective June 15, 2005.

 $^{^2}$ The Federal nonattainment designation for lead is only applicable towards the Los Angeles County portion of the SCAB.

Additionally, data for SO₂ has been omitted as attainment is regularly met in the SCAB and few monitoring stations measure SO₂ concentrations.

TABLE 2-4: PROJECT AREA AIR QUALITY MONITORING SUMMARY 2018-2020

Pollutant Standard	Chou doud	Year			
	2018	2019	2020		
O_3					
Maximum Federal 1-Hour Concentration (ppm)		0.111	0.107	0.171	
Maximum Federal 8-Hour Concentration (ppm)		0.077	0.094	0.113	
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	3	2	15	
Number of Days Exceeding State/Federal 8-Hour Standard	> 0.070 ppm	4	6	23	
СО					
Maximum Federal 1-Hour Concentration	> 35 ppm	3.0	2.6	2.1	
Maximum Federal 8-Hour Concentration	> 20 ppm	1.4	1.2	1.2	
NO ₂					
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.067	0.059	0.057	
Annual Federal Standard Design Value		0.013	0.012	0.013	
PM ₁₀					
Maximum Federal 24-Hour Concentration (μg/m³)	> 150 μg/m ³	129	127	120	
Annual Federal Arithmetic Mean (μg/m³)		27.2	21.9	23.9	
Number of Days Exceeding Federal 24-Hour Standard	> 150 μg/m ³	0	0	0	
Number of Days Exceeding State 24-Hour Standard	> 50 μg/m ³	13	13	13	
PM _{2.5}					
Maximum Federal 24-Hour Concentration (μg/m³)	> 35 μg/m ³	54.10	36.10	41.40	
Annual Federal Arithmetic Mean (μg/m³)	> 12 μg/m ³	11.02	9.32	11.27	
Number of Days Exceeding Federal 24-Hour Standard	> 35 μg/m ³	3	3	1	

ppm = Parts Per Million

μg/m³ = Microgram per Cubic Meter

Source: Data for O₃, CO, NO₂, PM₁₀, and PM_{2.5} was obtained from SCAQMD Air Quality Data Tables.

2.8 REGULATORY BACKGROUND

2.8.1 FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the NAAQS for O_3 , CO, NO_X , SO_2 , PM_{10} , and Pb (10). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.



The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (11). The CAA also mandates that states submit and implement SIPs for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards would be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (12) (13). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O₃, NO₂, SO₂, PM₁₀, CO, PM_{2.5}, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O₃ and to adopt a NAAQS for PM_{2.5}. Table 2-3 (previously presented) provides the NAAQS within the SCAB.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_X . NO_X is a collective term that includes all forms of NO_X which are emitted as byproducts of the combustion process.

2.8.2 CALIFORNIA REGULATIONS

CARB

CARB, which became part of the CalEPA in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO₄, visibility, hydrogen sulfide (H₂S), and vinyl chloride (C₂H₃Cl). However, at this time, H₂S and C₂H₃Cl are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (14) (10).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare Air Quality Management Plans (AQMP) that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

Application of Best Available Retrofit Control Technology to existing sources;



- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g., motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROGs, NO_X, CO and PM₁₀. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

TITLE 24 ENERGY EFFICIENCY STANDARDS AND CALIFORNIA GREEN BUILDING STANDARDS

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that will be effective on January 1, 2023.

Local jurisdictions are permitted to adopt more stringent requirements, as state law provides methods for local enhancements. CALGreen recognizes that many jurisdictions have developed existing construction waste and demolition ordinances and defers to them as the ruling guidance provided they establish a minimum 65% diversion requirement.

The code also provides exemptions for areas not served by construction waste and demolition recycling infrastructure. The State Building Code provides the minimum standard that buildings must meet in order to be certified for occupancy, which is generally enforced by the local building official.

Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas (GHG) emissions. The 2022 version of Title 24 was adopted by the CEC and will be effective on January 1, 2023.

The 2022 Title 24 standards would result in less energy use, thereby reducing air pollutant emissions associated with energy consumption in the SCAB and across the State of California. For example, the 2022 Title 24 standards require solar photovoltaic systems for new homes, encourage the use of heat pumps for space and water heating, and require homes to be electric-ready to ease the adoption of cleaner electric heating, cooking, and EV charging. The CEC anticipates that the 2022 energy code will provide \$1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (15). The Project would be required to comply with the



applicable standards in place at the time building permit document submittals are made. These require, among other items (16):

RESIDENTIAL MANDATORY MEASURES

- EV Charging (new one- and two-family dwellings and townhouses with attached private garages). For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device (4.106.4.1).
- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have ten or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking. In new projects or additions to alterations that add ten or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are
 identified for the depositing, storage and collection of non-hazardous materials for recycling,
 including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or
 meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
 - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1).
 - Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
 - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one



- showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
- Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of note more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).

Residential lavatory faucets shall have a maximum flow rate of note more than 1.2 gallons per minute at 60 psi (4.303.1.4.1). Lavatory faucets in common or public use areas shall have a maximum flow rate of note more than 0.5 gallons per minute at 60 psi (4.303.1.4.2). Metering faucets shall not deliver more than 0.25 gallons per cycle (4.303.1.4.3). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (4.303.1.4.4).

- Outdoor portable water use in landscaped areas. Nonresidential developments shall comply with
 a local water efficient landscape ordinance or the current California Department of Water
 Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent
 (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day (5.303.1.1 and 5.303.1.2).
- Outdoor water use in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements (5.410.2).
- Additionally, under California's 2022 Title 24, Part 6 Building Energy Efficiency Standards, solar
 photovoltaic systems are required for newly constructed low-rise residential buildings and shall
 be sized sufficient to offset the electricity use of the proposed building as if it was a mixed-fuel
 building.

2.8.3 AQMP

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMP to meet the state and federal ambient air quality standards (17). AQMPs are updated regularly to ensure an effective reduction in emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy. A detailed discussion on the AQMP and Project consistency with the AQMP is provided in Section 3.10.



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3 PROJECT AIR QUALITY IMPACT

3.1 Introduction

This study quantifies air quality emissions generated by construction and operation of the Project and addresses whether the Project conflicts with implementation of the SCAQMD's AQMP and Lead Agency planning regulations. The analysis of Project-generated air emissions determines whether the Project would result in a cumulatively considerable net increase of any criteria pollutant for which the SCAB is in non-attainment under an applicable NAAQS and CAAQS. Additionally, the Project has been evaluated to determine whether the Project would expose sensitive receptors to substantial pollutant concentrations and the impacts of odors. The significance of these potential impacts is described in the following sections.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the *CEQA Guidelines* (14 CCR §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (1):

- Conflict with or obstruct implementation of the applicable air quality plan.
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard.
- Expose sensitive receptors to substantial pollutant concentrations.
- Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

The SCAQMD has also developed regional significance thresholds for other regulated pollutants, as summarized at Table 3-1 (18). The SCAQMD's CEQA Air Quality Significance Thresholds (April 2019) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 3-1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Regional Construction Threshold	Regional Operational Thresholds
NO _X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM ₁₀	150 lbs/day	150 lbs/day
PM _{2.5}	55 lbs/day	55 lbs/day
SO _X	150 lbs/day	150 lbs/day
СО	550 lbs/day	550 lbs/day
Pb	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day



3.3 Models Employed To Analyze Air Quality

3.3.1 CALEEMOD

Land uses such as the Project affect air quality through construction-source and operational-source emissions.

In May 2022 California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released the latest version of the CalEEMod Version 2022.1. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NOx, SOx, CO, PM₁₀, and PM_{2.5}) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (19). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality emissions. Output from the model runs for operational activity are provided in Appendix 3.2.

3.4 Construction Emissions

Construction of each area associated with the Project will result in emissions of VOCs, NO_X, SO_X, CO, PM₁₀, and PM_{2.5}. Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

Because the Project does not involve construction, specific construction related criteria pollutant emissions will be quantified in future air quality analyses to be conducted for individual CEQA projects. In addition, for projects that are estimated to exceed the construction emissions significance thresholds established by the SCAQMD (after mitigation), the preparation of an Environmental Impact Report (EIR) would be required (pursuant to CEQA) and an analysis of alternatives and other emissions reduction measures would take place.

Construction-related emissions are speculative and cannot be accurately determined at this stage of the planning process. Therefore, such impacts are too speculative to evaluate (see CEQA Guidelines Section 15145). To the extent that specific projects are known, those projects have already been or would be subjected to their own environmental analysis. Additionally, due to the variables that must be considered when examining construction impacts (e.g., development rate, disturbance area per day, specific construction equipment and operating hours, etc.), it would be speculative to state conclusively that construction activity associated with the Project would cause a significant air quality impact. Notwithstanding, implementation of the Project has a potential to result in a significant and unavoidable impact with respect to construction activity associated with future development projects particularly if multiple construction projects overlap



for emissions of CO, VOCs, NO_x , SO_x , PM_{10} , and $PM_{2.5}$. All feasible mitigation shall be applied to minimize construction-related significant air quality impacts, including one or more of the measures listed below, based on project-specific air quality modeling. The mitigation measure(s) to be applied shall be roughly proportional and have a nexus with the project-specific impact identified, consistent with Section 15126.4 of the State CEQA Guidelines.

Level of Significance Before Mitigation

As noted above, the Project has the potential to result in a significant and unavoidable impact for emissions of emissions of CO, VOCs, NO_x, SO_x, PM₁₀, and PM_{2.5} with respect to future development projects.

3.4.1 REGULATORY REQUIREMENTS

The following measures are recommended to reduce potential impacts to the extent feasible.

SCAQMD RULES

SCAQMD Rules that are currently applicable during construction activity for this Project are described below.

SCAQMD RULE 401

A person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any 1 hour that is as dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the U. S. Bureau of Mines.

SCAQMD RULE 402

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any such persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property. The provisions of this rule do not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

Odor Emissions. All uses shall be operated in a manner such that no offensive odor is perceptible at or beyond the property line of that use.

SCAQMD RULE 403

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent, reduce, or mitigate fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust. Applicable dust suppression requirements from Rule 403 are summarized below.



- Nontoxic chemical soil stabilizers shall be applied according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- Active sites shall be watered at least twice daily. (Locations where grading is to occur will be thoroughly watered prior to earthmoving.)
- All trucks hauling dirt, sand, soil, or other loose materials shall be covered, or at least 0.6 meters (2 feet) of freeboard (vertical space between the top of the load and top of the trailer) maintained in accordance with the requirements of CVC Section 23114.
- Construction access roads shall be paved at least 30 meters (100 feet) onto the site from the main road.
- Traffic speeds on all unpaved roads shall be reduced to 15 mph or less.

SCAQMD RULE 1113

This rule serves to limit the VOC content of architectural coatings used on projects in the SCAQMD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects.

SCAQMD RULE 1301

This rule is intended to provide that pre-construction review requirements to ensure that new or relocated facilities do not interfere with progress in attainment of the NAAQS, while future economic growth within the SCAQMD is not unnecessarily restricted. The specific air quality goal is to achieve no net increases from new or modified permitted sources of nonattainment air contaminants or their precursors. Rule 1301 also limits emission increases of ammonia, and ODCs from new, modified or relocated facilities by requiring the use of BACT.

Although the Project would comply with the above regulatory requirements, it should be noted that emission reductions associated with Rules 402, 1301, 1401, and 2305 cannot be quantified in the CalEEMod. Conversely, Rule 403 (Fugitive Dust) (20) and Rule 1113 (Architectural Coatings) (21) can be modeled in CalEEMod.

3.4.3 CONSTRUCTION-SOURCE MITIGATION MEASURES

MM AQ-1

Prior to issuance of grading permits, project applicants shall prepare and submit a technical assessment evaluating potential project construction-related air quality impacts (regional and localized) to the City for review and approval. The evaluation shall be prepared in conformance with South Coast Air Quality Management District (SCAQMD) methodology for assessing air quality impacts. If construction-related criteria air pollutants are determined to have the potential to exceed the SCAQMD's most recent adopted thresholds of significance, the City shall require that applicants for new development projects incorporate all feasible mitigation measures to reduce air pollutant emissions during construction activities to below applicable significance thresholds. These identified measures shall be incorporated into all appropriate construction documents (e.g., construction management plans) submitted to the City and shall be verified by the City. Mitigation measures to reduce construction-related emissions could include, but are not limited to:



- Require construction equipment that meets or exceeds CARB Certified Tier 3 or Tier 4 engine standards.
- Limit the idling time of diesel off-road construction equipment to no more than five (5) minutes.
- Require the use of "Super-Compliant" low VOC paints which have been reformulated to exceed
 the regulatory VOC limits put forth by SCAQMD's Rule 1113. Super-Compliant low VOC paints shall
 be no more than 10g/L of VOC. Alternatively, projects may utilize building materials that do not
 require the use of architectural coatings.
- The Construction Contractor shall require by contract specifications that construction operations rely on the electricity infrastructure surrounding the construction site, if available rather than electrical generators powered by internal combustion engines.
- The Construction Contractor shall require the use of alternative fueled, engine retrofit technology, after-treatment products (e.g., diesel oxidation catalysts, diesel particulate filters), and/or other options as they become available, including all off-road and portable diesel-powered equipment.
- The Construction Contractor shall require that construction equipment be maintained in good operation condition to reduce emissions. The Construction Contractor shall ensure that all construction equipment is being properly serviced and maintained as per the manufacturer's specification. Maintenance records shall be available at the construction site for City verification.

Level of Significance After Mitigation

As noted above, there is uncertainty regarding the specific nature of construction activities that would be facilitated by future development projects. Despite the implementation of MM AQ-1, which would require future development projects to conduct project-specific analysis and incorporate mitigation measures, it cannot be definitively stated that all future development projects would not exceed the applicable thresholds, especially since some individual projects would exceed the thresholds. As such, the Project would result in a significant and unavoidable impact for emissions of emissions of CO, VOCs, NO_x, SO_x, PM₁₀, and PM_{2.5} with respect to future development projects even with implementation of feasible mitigation measures.

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the Project will result in emissions of VOCs, NO_x, SO_x, CO, PM_{10} , and $PM_{2.5}$. Operational emissions are expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions

3.5.1 AREA SOURCE EMISSIONS

ARCHITECTURAL COATINGS

Over a period of time the buildings that are part of this Project will require maintenance and will therefore produce emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other surface coatings. The emissions associated with architectural coatings were calculated using CalEEMod.



CONSUMER PRODUCTS

Consumer products include, but are not limited to detergents, cleaning compounds, polishes, personal care products, and lawn and garden products. Many of these products contain organic compounds which when released in the atmosphere can react to form ozone and other photochemically reactive pollutants. The emissions associated with use of consumer products were calculated based on defaults provided within CalEEMod.

LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. It should be noted that as October 9, 2021, Governor Gavin Newsom signed AB 1346. The bill aims to ban the sale of new gasoline-powered equipment under 25 gross horsepower (known as small off-road engines [SOREs]) by 2024. For purposes of analysis, the emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod.

3.5.2 ENERGY SOURCE EMISSIONS

COMBUSTION EMISSIONS ASSOCIATED WITH NATURAL GAS AND ELECTRICITY

Electricity and natural gas are used by almost every project. Criteria pollutant emissions are emitted through the generation of electricity and consumption of natural gas. However, because electrical generating facilities for the Project area are located either outside the region (state) or offset through the use of pollution credits Regional Clean Air Incentives Market (RECLAIM) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity are generally excluded from the evaluation of significance and only natural gas use is considered. The emissions associated with natural gas use were calculated using CalEEMod.

3.5.3 MOBILE SOURCE EMISSIONS

The Project related operational air quality emissions derive primarily from vehicle miles traveled (VMT) associated with the Project. The Project-generated average weekday daily VMT is 1,283,409 and was obtained from modeling conducted for the *Buena Park General Plan & Zoning Code Update Vehicle Miles Traveled Analysis* (22) which is based on the Orange County Transportation Analysis Model (OCTAM) for the Year 2045. To estimate the Saturday and Sunday VMT for inclusion in CalEEMod, the daily VMT was converted to annual VMT using a factor of 347 days consistent with the California Air Resources Board 2017 Scoping Plan. 347 days is used instead of 365 days to account for reduced daily VMT that occurs on weekends and holidays. In other words, the average weekend VMT represents 95% (347 days ÷ 365 days) of the average weekday daily VMT.



FUGITIVE DUST RELATED TO VEHICULAR TRAVEL

Vehicles traveling on paved roads would be a source of fugitive emissions due to the generation of road dust inclusive of break and tire wear particulates. The emissions estimate for travel on paved roads were calculated using CalEEMod.

3.5.4 OPERATIONAL EMISSIONS SUMMARY

Level of Significance Before Mitigation

The estimated operational-source emissions for the proposed Project are summarized on Table 3-2. Detailed operational model outputs are presented in Appendix 3.2. As shown, the proposed Project will exceed the applicable SCAQMD thresholds for VOC, NO_X , CO, PM_{10} and $PM_{2.5}$. As such, a potentially significant impact would occur.

TABLE 3-2: SUMMARY OF PEAK OPERATIONAL EMISSIONS

Avec			Emissions	(lbs/day)		
Area	voc	NO _x	со	SO _x	PM ₁₀	PM _{2.5}
	S	Summer				
Mobile Source	333.00	183.00	2700.00	7.71	357.00	65.00
Area Source	538.00	160.00	673.00	1.01	12.70	12.80
Energy Source	5.91	101.00	43.50	0.64	8.17	8.17
Total Maximum Daily Emissions	876.91	444.00	3416.50	9.36	377.87	85.97
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	YES
		Winter				
Mobile Source	334.00	199.00	2517.00	7.41	357.00	65.00
Area Source	484.00	154.00	65.60	0.98	12.50	12.50
Energy Source	5.91	101.00	43.50	0.64	8.17	8.17
Total Maximum Daily Emissions	823.91	454.00	2626.10	9.03	377.67	85.67
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	YES	NO	YES	YES

Source: CalEEMod operational-source emissions are presented in Appendix 3.2.

3.5.5 OPERATIONAL-SOURCE MITIGATION MEASURES

MM AQ-2

Prior to issuance of a grading permit, project applicants shall prepare and submit a technical assessment evaluating potential project operation air quality impacts (regional and localized) to the City for review and approval. The evaluation shall be prepared in conformance with South Coast Air Quality Management District (SCAQMD) methodology in assessing air quality



impacts. If operation-related air pollutants are determined to have the potential to exceed the SCAQMD's most recent adopted thresholds of significance, the City shall require that applicants for new development projects incorporate all feasible mitigation measures to reduce air pollutant emissions during operational activities to below the applicable significance thresholds. The identified measures shall be included as part of the conditions of approval. Possible mitigation measures to reduce operational emissions could include, but are not limited to the following:

- Increase in insulation such that heat transfer and thermal bridging is minimized;
- Limit air leakage through the structure and/or within the heating and cooling distribution system;
- Use of energy-efficient space heating and cooling equipment;
- Installation of electrical hook-ups at loading dock areas;
- Installation of dual-paned or other energy efficient windows;
- Use of interior and exterior energy efficient lighting that exceeds then incumbent California Title 24 Energy Efficiency performance standards;
- Installation of automatic devices to turn off lights where they are not needed;
- Application of a paint and surface color palette that emphasizes light and off-white colors that reflect heat away from buildings;
- Design of buildings with "cool roofs" using products certified by the Cool Roof Rating Council, and/or exposed roof surfaces using light and off-white colors;
- Design of buildings to accommodate photo-voltaic solar electricity systems or the installation of photo-voltaic solar electricity systems;
- Installation of ENERGY STAR-qualified energy-efficient appliances, heating and cooling systems, office equipment, and/or lighting products.
- Landscaping palette emphasizing drought tolerant plants;
- Use of water-efficient irrigation techniques;
- U.S. EPA Certified WaterSense labeled or equivalent faucets, high-efficiency toilets (HETs), and water-conserving shower heads.
- Applicants for residential within 1,000 feet of a major sources of TACs (e.g., warehouses, industrial areas, freeways, roadways, and rail lines with traffic volumes over 10,000 vehicle per day), as measured from the property line of the project to the property line of the source/edge of the nearest travel lane, shall submit a health risk assessment (HRA) to the City of Buena Park prior to future discretionary Project approval. The HRA shall be prepared in accordance with policies and procedures of CEQA and the SCAQMD. If the HRA shows that the incremental cancer risk exceeds ten in one million (10E-06), PM10 concentrations exceed 2.5 microgram per cubic meter (μg/m3), PM2.5 concentrations exceed 2.5 μg/m3, or the appropriate noncancer hazard index exceeds 1.0, the applicant will be required to identify and demonstrate that mitigation measures are capable of reducing potential cancer and non-cancer risks to an acceptable level (i.e., below ten in one million or a hazard index of 1.0), including appropriate enforcement mechanisms. Measures to reduce risk may include but are not limited to:
 - Air intakes located away from high volume roadways and/or truck loading zones.



 Heating, ventilation, and air conditioning systems of the buildings provided with appropriately sized maximum efficiency rating value (MERV) filters (e.g., MERV 13 or better).

Level of Significance After Mitigation

The estimated operational-source emissions for the proposed Project are summarized on Table 3-2. Detailed operational model outputs are presented in Appendix 3.2. As shown, the proposed Project will exceed the applicable SCAQMD thresholds for VOC, NO_X , CO, PM_{10} and $PM_{2.5}$. As such, a potentially significant impact would occur.

As noted above, there is uncertainty regarding the specific nature of operational activities that would be facilitated by future development projects. Despite the implementation of MM AQ-2, which would require future development projects to conduct project-specific analysis and incorporate mitigation measures, it cannot be definitively stated that all future development projects at buildout would not exceed the applicable thresholds. At buildout, implementation of the Housing Element as evaluated herein and summarized on Table 3-2 would result in an exceedance for VOC, NO_X, CO, PM₁₀ and PM_{2.5} emissions. Although the Project would implement MM AQ-2 to reduce emissions from VOC, NO_X, CO, PM₁₀ and PM_{2.5}, it is not possible to know the quantity of emissions that would be reduced by implementing MM AQ-2. Therefore, the emissions reductions that would be achieved by cannot be accurately quantified and are not accounted for in the analysis herein. As such, a significant and unavoidable impact is presumed even with implementation of MM AQ-2.

3.6 IMPACTS TO SENSITIVE RECEPTORS

3.6.1 LOCALIZED SIGNIFICANCE

The analysis makes use of methodology included in the SCAQMD Final Localized Significance Threshold Methodology (LST Methodology) (23). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The significance of localized emissions impacts depends on whether ambient levels in the vicinity of any given project are above or below State standards. In the case of CO and NO₂, if ambient levels are below the standards, a project is considered to have a significant impact if project emissions result in an exceedance of one or more of these standards. If ambient levels already exceed a state or federal standard, then project emissions are considered significant if they increase ambient concentrations by a measurable amount. This would apply to PM₁₀ and PM_{2.5}; both of which are non-attainment pollutants.

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4³. LSTs represent the maximum emissions from a project that will not cause

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^{&#}x27;s "Preliminary Warehouse Emission Calculations" cites 39.9-mile trip length for heavy-heavy trucks **Invalid source specified.**. As a conservative measure, a trip length of 40 miles has been utilized for all trucks for the purpose of this analysis.

or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

LSTs were developed in response to environmental justice and health concerns raised by the public regarding exposure of individuals to criteria pollutants in local communities. To address the issue of localized significance, the SCAQMD adopted LSTs that show whether a project would cause or contribute to localized air quality impacts and thereby cause or contribute to potential localized adverse health effects. The analysis makes use of methodology included in the *LST Methodology* (24).

APPLICABILITY OF LSTS FOR THE PROJECT

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4. LSTs represent the maximum emissions from a project that will not cause or contribute to exceeding the most stringent applicable federal or state ambient air quality standard at the nearest residence or sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses.

SCAQMD developed LSTs to determine if emissions of NO₂, CO, PM₁₀, and PM_{2.5} generated at a project site (offsite mobile-source emissions are not included in the LST analysis) would expose sensitive receptors to substantial concentrations of criteria air pollutants. Table 3-3 shows the localized significance thresholds for projects in SCAQMD's jurisdiction.

To assist lead agencies, SCAQMD developed screening-level LSTs to back-calculate the mass amount (lbs. per day) of emissions generated onsite that would trigger the hourly levels shown in Table 3-3 for projects under five acres. LSTs represent the maximum emissions at a project site that are not expected to cause or contribute to exceeding the most stringent federal or state AAQS. LSTs are based on the ambient concentrations of that pollutant within the project SRA and the distance to the nearest sensitive receptor. However, consistent with SCAQMD guidance an LST analysis can only be conducted at a project-level, and quantification of LSTs is not applicable for this program-level environmental analysis. However, LST quantification would be required pursuant to MM AQ-1 and MM AQ-2 for future development projects subject to CEQA.

SCAQMD defines Environmental Justice as "...equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."



TABLE 3-3: SCAQMD LOCALIZED SIGNIFICANCE THRESHOLD^A

Air Pollutant (Relevant AAQS)	Concentration
1-Hour CO Standard (CAAQS)	20 ppm
8-Hour CO Standard (CAAQS)	9.0 ppm
1-Hour NO ₂ Standard (CAAQS)	0.18 ppm
Annual Average NO ₂ Standard (CAAQS)	0.03 ppm
24-Hour PM ₁₀ Standard – Construction (SCAQMD) ¹	10.4 μg/m³
24-Hour PM _{2.5} Standard – Construction (SCAQMD) ¹	10.4 μg/m³
24-Hour PM ₁₀ Standard – Operation (SCAQMD) ¹	2.5 µg/m³
24-Hour PM _{2.5} Standard – Operation (SCAQMD) ¹	2.5 µg/m³
Annual Average PM ₁₀ Standard (SCAQMD) ¹	1.0 μg/m³

A: Threshold is based on SCAQMD Rule 403. Since SCAB is in nonattainment for PM₁₀ and PM_{2.5}, the threshold is established as an allowable change in concentration. Therefore, background concentration is not relevant.

3.6.2 CO "HOT SPOT" ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or "hot spots." Further, detailed modeling of Project-specific CO "hot spots" is not needed to reach this conclusion. An adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm were to occur.

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment.

To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 3-4.

TABLE 3-4: CO MODEL RESULTS

Internation Leasting	CO Concentrations (ppm)			
Intersection Location	Morning 1-hour Afternoon 1-hour		8-hour	
Wilshire Boulevard/Veteran Avenue	4.6	3.5	3.7	
Sunset Boulevard/Highland Avenue	4	4.5	3.5	
La Cienega Boulevard/Century Boulevard	3.7	3.1	5.2	
Long Beach Boulevard/Imperial Highway	3	3.1	8.4	

Source: 2003 AQMP, Appendix V: Modeling and Attainment Demonstrations

Notes: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.



Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 8.4 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 7.7 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (25). In contrast, an adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur.

The ambient 1-hr and 8-hr CO concentration within the Project study area is estimated to be 2.1 ppm and 1.2 ppm, respectively (data from North Orange County station for 2020). Therefore, even if the traffic volumes for the proposed Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the ongoing improvements in ambient air quality, the Project would not be capable of resulting in a CO "hot spot" at any study area intersections.

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour (vph)—or 24,000 vph where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (26). Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Table 3-5. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vph and AM/PM traffic volumes of 8,062 vph and 7,719 vph respectively (25). The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm)⁴.

TABLE 3-5: TRAFFIC VOLUMES

		Peak Traffic Volumes (vph)					
Intersection Location	Eastbound (AM/PM)	Westbound (AM/PM)	Southbound (AM/PM)	Northbound (AM/PM)	Total (AM/PM)		
Wilshire Boulevard/Veteran Avenue	4,954/2,069	1,830/3,317	721/1,400	560/933	8,062/7,719		
Sunset Boulevard/Highland Avenue	1,417/1,764	1,342/1,540	2,304/1,832	1,551/2,238	6,614/5,374		
La Cienega Boulevard/Century Boulevard	2,540/2,243	1,890/2,728	1,384/2,029	821/1,674	6,634/8,674		
Long Beach Boulevard/Imperial Highway	1,217/2,020	1,760/1,400	479/944	756/1,150	4,212/5,514		

Source: 2003 AQMP



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⁴ Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm)

As shown on Table 3-6, the highest trips on a segment of road for the proposed Project during AM and PM traffic is 6,102 vph and 6,379 vph, respectively, on Beach BI. (SR-39) & Orangethorpe Av. (27). As such, Project-related traffic volumes are less than the traffic volumes identified in the 2003 AQMP. The Project considered herein would not produce the volume of traffic required to generate a CO "hot spot" either in the context of the 2003 Los Angeles hot spot study or based on representative BAAQMD CO threshold considerations. Therefore, CO "hot spots" are not an environmental impact of concern for the Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

TABLE 3-6: WITH PROJECT TRAFFIC VOLUMES

	Peak Traffic Volumes (vph)					
Intersection Location	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)	
Valley View St. & Lincoln Av.	1066/1761	1734/1310	1554/1360	1577/1670	5931/6101	
Beach Bl. (SR-39) & Artesia Bl.	1808/2026	2013/2139	879/1033	929/972	5629/6170	
Beach Bl. (SR-39) & Orangethorpe Av.	1988/2249	1832/1940	902/1382	1398/808	6120/6379	
Beach Bl. (SR-39) & La Palma Av.	2071/1616	2030/2530	859/1194	732/1190	5692/6530	

Level of Significance Before Mitigation

As discussed in the analysis above, construction and operational activity would have the potential to exceed applicable localized emissions thresholds and result in a potentially significant impact.

The Project is not expected to result in a CO Hotspot and therefore impacts with respect to CO Hotspots is considered less than significant.

Mitigation Measures

See MM AQ-1 and MM AQ-2.

Level of Significance After Mitigation

As discussed in the analysis above, site-specific localized emissions analysis would be required to address potential impacts from construction and operational activity, pursuant to MM AQ-1 and MM AQ-2. Notwithstanding, MM AQ-1 and MM AQ-2 cannot guarantee that future development projects would in fact reduce all of their localized impacts to less than significant. Additionally, construction activity would also have the potential to result in carcinogenic and non-carcinogenic emissions associated with diesel exhaust from construction equipment. Since MM AQ-1 and MM AQ-2 cannot guarantee that future development projects would reduce all of their impacts to less than significant, this impact is considered significant and unavoidable.

3.7 AQMP

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be



referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the SCAG, county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In March 2017, the SCAQMD released the *Final 2016 AQMP* (2016 AQMP). The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (28). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016-2040 RTP/SCS, a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (17). The Project's consistency with the AQMP will be determined using the 2016 AQMP as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the 1993 CEQA Handbook (29). These indicators are discussed below:

3.7.1 Consistency Criterion No. 1

The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

The violations that Consistency Criterion No. 1 refers to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

Construction Impacts – Consistency Criterion 1

The analysis above demonstrates that, Project construction-source emissions have the potential to exceed the applicable regional significance thresholds for criteria pollutants. Therefore, the Project would have the potential to result in or cause violations of the CAAQS and NAAQS.

Operational Impacts – Consistency Criterion 1

The analysis above demonstrates that, Project operational-source emissions would exceed the applicable regional significance thresholds for criteria pollutant. Therefore, the Project would have the potential to result in or cause violations of the CAAQS and NAAQS.

On the basis of the preceding discussion, the Project is determined to be inconsistent with the first criterion.



3.7.2 Consistency Criterion No. 2

The Project will not exceed the assumptions in the AQMP based on the years of Project buildout phase.

The 2016 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Buena Park General Plan is considered to be consistent with the AQMP.

Construction Impacts – Consistency Criterion 2

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential could occur, with disturbance of the entire site occurring during construction activities. As such, when considering that emissions thresholds could be exceeded, a less significant impact would result.

Operational Impacts - Consistency Criterion 2

The Project is intensifying existing land use designations and will also exceed applicable thresholds.

On the basis of the preceding discussion, the Project has the potential to conflict with the second criterion.

Level of Significance Before Mitigation

The Project has the potential to result in or cause NAAQS or CAAQS violations. The Project's development intensity is not consistent with than the development intensities allowed within the adopted General Plan and consequently the AQMP. The Project therefore has the potential to be inconsistent with the AQMP and a potential significant impact would occur.

Mitigation Measures

See MM AQ-1 and MM AQ-2.

Level of Significance After Mitigation

As discussed in the analysis above, site-specific emissions analysis would be required to address potential impacts from construction and operational activity, pursuant to MM AQ-1 and MM AQ-2. Notwithstanding, MM AQ-1 and MM AQ-2 cannot guarantee that future development projects would in fact reduce all of their impacts to less than significant. Since MM AQ-1 and MM AQ-2 cannot guarantee that future development projects would reduce all of their impacts to less than significant, this impact is considered significant and unavoidable.



3.8 Odors

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

Level of Significance Before Mitigation

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. During operation, it is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (30).

Mitigation Measures

None required.

Level of Significance After Mitigation

Not applicable.

3.9 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the Project site as nonattainment for O_3 PM₁₀, and PM_{2.5} while the NAAQS designates the Project site as nonattainment for O_3 and PM_{2.5}.



The SCAQMD has published a report on how to address cumulative impacts from air pollution: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution (31). In this report the SCAQMD clearly states (Page D-3):

"...the SCAQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which SCAB is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

Level of Significance Before Mitigation

CONSTRUCTION IMPACTS

The proposed Project has the potential to result in cumulative impacts associated with on-going construction activity. Therefore, the proposed Project would have the potential to result in a cumulatively considerable significant impact with respect to operational activity.

OPERATIONAL IMPACTS

The proposed Project has the potential to result in cumulative impacts associated with on-going operations for emissions of VOC, NO_X , CO, PM_{10} and $PM_{2.5}$. Therefore, the proposed Project would have the potential to result in a cumulatively considerable significant impact with respect to operational activity.

Mitigation Measures

See MM AQ-1 and MM AQ-2.



Level of Significance After Mitigation

Even with implementation of MM AQ-1 and MM AQ-2, the proposed Project has the potential to result in cumulative impacts associated with on-going construction and operation. Therefore, the proposed Project would result in a significant and unavoidable impact.

3.10 Friant Ranch Evaluation

In December 2018, in the case of *Sierra Club v. County of Fresno* (2018) 6 Cal.5th 502, the California Supreme Court held that an EIR air quality analysis must meaningfully connect the identified air quality impacts to the human health consequences of those impacts, or meaningfully explain why that analysis cannot be provided.

As discussed in briefs filed in the Friant Ranch case, correlating a project's criteria air pollutant emissions to specific health impacts is challenging. The SCAQMD, which has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, and thus it is uniquely situated to express an opinion on how lead agencies should correlate air quality impacts with specific health outcomes (32) noted that it may be "difficult to quantify health impacts for criteria pollutants." SCAQMD used O₃ as an example of why it is impracticable to determine specific health outcomes from criteria pollutants for all but very large, regional-scale projects. First, forming O₃ "takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources." (SCAQMD, 2015a, p. 11) Second, "it takes a large amount of additional precursor emissions (NO_X and VOCs) to cause a modeled increase in ambient ozone levels over an entire region," with a 2012 study showing that "reducing NO_X by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion." (SCAQMD, 2015a, pp. 12-14) Comparatively, the Project would generate a maximum of 0.44 tons per day of VOC and 0.22 tons per day of NOx emissions which are fractions of the modeled values discussed above.

SCAQMD concluded that it "does not currently know of a way to accurately quantify ozone-related health impacts caused by NO_X or VOC emissions from relatively small projects." (SCAQMD, 2015a, pp. 12-14) The San Joaquin Valley Unified Air Pollution Control District (SJVUAPCD) ties the difficulty of correlating the emission of criteria pollutants to health impacts to how ozone and particulate matter are formed, stating that "[b]ecause of the complexity of ozone formation, a specific tonnage amount of NO_X or VOCs emitted in a particular area does not equate to a particular concentration of ozone in that area." (SJVUAPCD, 2015, p. 4) Similarly, the tonnage of PM "emitted does not always equate to the local PM concentration because it can be transported long distances by wind," and "[s]econdary PM, like ozone, is formed via complex chemical reactions in the atmosphere between precursor chemicals such as sulfur dioxides (SO_X) and NO_X," meaning that "the tonnage of PM-forming precursor emissions in an area does not necessarily result in an equivalent concentration of secondary PM in that area." (SJVUAPCD, 2015, p. 5) The disconnect between the amount of precursor pollutants and the concentration of ozone or PM formed makes it difficult to determine potential health impacts, which are related



to the concentration of ozone and particulate matter experienced by the receptor rather than levels of NO_x, SO_x, and VOCs produced by a source.

Most local agencies lack the data to do their own assessment of potential health impacts from criteria air pollutant emissions, as would be required to establish customized, locally specific thresholds of significance based on potential health impacts from an individual development project. The use of national or "generic" data to fill the gap of missing local data would not yield accurate results because such data does not capture local air patterns, local background conditions, or local population characteristics, all of which play a role in how a population experiences air pollution. Because it is impracticable to accurately isolate the exact cause of a human disease (for example, the role a particular air pollutant plays compared to the role of other allergens and genetics in cause asthma), existing scientific tools cannot accurately estimate health impacts of the Project's air emissions without undue speculation. Instead, readers are directed to the Project's air quality impact analysis above, which provides extensive information concerning the quantifiable and non-quantifiable health risks related to the Project's construction and long-term operation.

As the Project's emissions will comply with federal, state, and local air quality standards, the proposed Project's emissions are not sufficiently high enough to use a regional modeling program to correlate health effects on a basin-wide level and would not provide a reliable indicator of health effects if modeled.



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5 CERTIFICATIONS

The contents of this air study report represent an accurate depiction of the environmental impacts associated with the proposed Buena Park General Plan & Zoning Code Update. The information contained in this air quality impact assessment report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at hqureshi@urbanxroads.com

Haseeb Qureshi
Principal
URBAN CROSSROADS, INC.
hqureshi@urbanxroads.com

EDUCATION

Master of Science in Environmental Studies California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design University of California, Irvine • June, 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Planners AWMA – Air and Waste Management Association ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011 Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008 Principles of Ambient Air Monitoring – CARB • August 2007 AB2588 Regulatory Standards – Trinity Consultants • November 2006 Air Dispersion Modeling – Lakes Environmental • June 2006



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APPENDIX 2.1:

STATE/FEDERAL ATTAINMENT STATUS OF CRITERIA POLLUTANTS



Appendix C Maps and Tables of Area Designations for State and National Ambient Air Quality Standards

Appendix C Maps and Tables of Area Designations for State and National Ambient Air Quality Standards

This attachment fulfills the requirement of Health and Safety Code section 40718 for CARB to publish maps that identify areas where one or more violations of any State ambient air quality standard (State standard) or national ambient air quality standard (national standard) have been measured. The national standards are those promulgated under section 109 of the federal Clean Air Act (42 U.S.C. § 7409).

This attachment is divided into three parts. The first part comprises a table showing the levels, averaging times, and measurement methods for each of the State and national standards. This is followed by a section containing maps and tables showing the area designations for each pollutant for which there is a State standard in the California Code of Regulations, title 17, section 70200. The last section contains maps and tables showing the most current area designations for the national standards.

		Allibielit	(Updated 5/4/16)	Standard:	•	
D. E	Averaging	California S	,		tional Standards	•
Pollutant	Time	Concentration '	Method 4	Primary "	Secondary "	Method ⁷
Ozone (O ₃) ^a	1 Hour	0.09 ppm (180 μg/m²)	- Ultraviolet Photometry	_	Same as Primary	Ultraviolet
Ozone (O ₃)	8 Hour	0.070 ppm (137 μg/m²)	Oli aviolet Pilotometi y	0.070 ppm (137 μg/m²)	Standard	Photometry
Respirable Particulate	24 Hour	50 pg/m²	Gravinetric or Beta	150 pg/m²	Same as Primary	Inertial Separation and Gravinetric
Vatter (PM10)	Annual Arithmetic Mean	20 pg/m²	Aftenuation	_	Standard	Analysis
Fine Particulate	24 Hour	-	_	35 μg/m ³	Same as Primary Standard	Inertial Separation
Matter (PM2.5)	Annual Arithmetic Mean	12 μg/m²	Gravimetric or Beta Attenuation	12.0 µg/m²	15 μg/m ³	and Gravimetric Analysis
Carbon	1 Hour	20 ppm (23 mg/m²)	W Pi	35 ppm (40 mg/m²)	_	W Pi
Monoxide	8 Hour	9.0 ppm (10 mg/m²)	Hon-Dispersive Infrared Photometry	9 ppm (10 mg/m²)	_	Hon-Dispersive Infrared Photometry
(CO)	8 Hour (Lake Tahoe)	6 ppm (7 mg/m²)	- (MDIR)	_	_	(HDR)
Nitrogen	1 Hour	0.18 ppm (339 μg/m²)	Gas Phase	100 ppb (188 μg/m²)	_	Gas Phase
Dioxide (NO₂)¹°	Annual Arithmetic Mean	0.030 ppm (57 μg/m²)	Chemiluminescence	0.053 ppm (100 μg/m²)	Same as Primary Standard	Chemiluminescen
	1 Hour	0.25 ppm (655 pg/m²)		75 ppb (196 pg/w')	_	
Sulfur Dioxide	3 Hour	_	Uliraviolet	_	0.5 ppm (1300 pg/m²)	Ultraviolet Flourescence;
(SO,)"	24 Hour	0.04 ppm (105 pg/m²)	Phorescence 0.14 ppm (for certain areas		_	Specirophotometry (Pararosaniine Method)
	Annual Arithmetic Mean	_		0.030 ppm (for certain areas)**	_	- memony
	30 Day Average	1.5 μg/m²		_	_	
Lead 12, 13	Calendar Quarter	-	Atomic Absorption	1.5 µg/m² (for certain areas) ⁽²	Same as Primary	High Volume Sampler and Atomic Absorption
	Rolling 3-Month Average	-		0.15 μg/m ^a	Standard	
Visibility Reducing Particles"	8 Hour	See foolnote 14	Beta Allemation and Transmittance through Filter Tape		No	
Sulfates	24 Hour	25 μg/m ³	Ion Chromatography		National	
Hydrogen Sulfide	1 Hour	0.03 ppm (42 pg/m²)	Uliraviolet Flaorescence		Standards	
Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 μg/m²)	Gas Chromatography			

- 1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the California Code of Regulations.
- 2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24-hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 μg/m³ is equal to or less than one. For PM2.5, the 24-hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. Environmental Protection Agency (U.S. EPA) for further clarification and current national policies.
- 3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- 4. Any equivalent measurement method which can be shown to the satisfaction of the CARB to give equivalent results at or near the level of the air quality standard may be used.
- 5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- 6. National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- 7. Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
- 8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- 9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 μg/m³ to 12.0 μg/m³. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 μg/m³, as was the annual secondary standard of 15 μg/m³. The existing 24-hour PM10 standards (primary and secondary) of 150 μg/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- 10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- 11. On June 2, 2010, a new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
 - Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
- 12. The CARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- 13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 μ g/m³)as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- 14. In 1989, the CARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

Area Designations for the State Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a State standard set forth in the California Code of Regulations, title 17, section 60200. Each area is identified as attainment, nonattainment, nonattainment, or unclassified for each pollutant, as shown below:

Attainment A
Nonattainment N
Nonattainment-Transitional NA-T
Unclassified U

In general, CARB designates areas by air basin for pollutants with a regional impact and by county for pollutants with a more local impact. However, when there are areas within an air basin or county with distinctly different air quality deriving from sources and conditions not affecting the entire air basin or county, CARB may designate a smaller area. Generally, when boundaries of the designated area differ from the air basin or county boundaries, the description of the specific area is referenced at the bottom of the summary table.

Figure 1

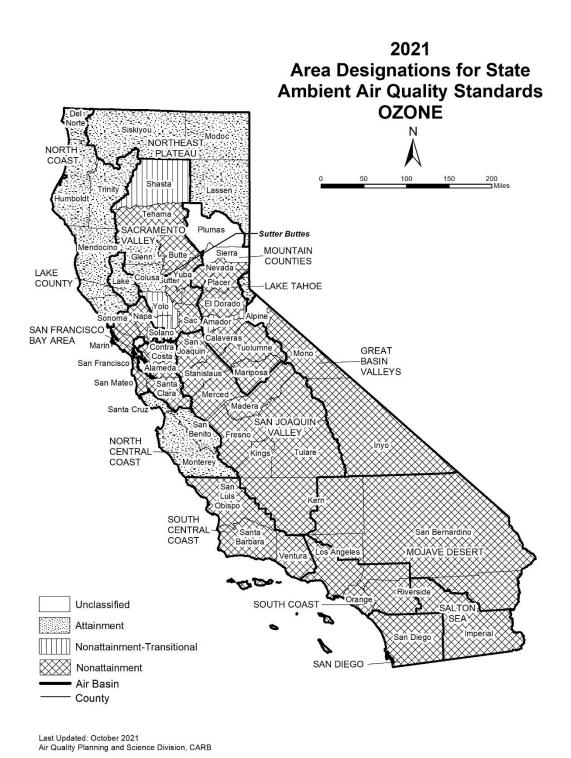


Table 1
California Ambient Air Quality Standards Area Designations for Ozone¹

	N	NA-T	U	Α
GREAT BASIN VALLEYS AIR BASIN				
Alpine County			U	
Inyo County	Ν			
Mono County	Ν			
LAKE COUNTY AIR BASIN				Α
LAKE TAHOE AIR BASIN				Α
MOJAVE DESERT AIR BASIN	Ν			
MOUNTAIN COUNTIES AIR BASIN				
Amador County		NA-T		
Calaveras County	Ν			
El Dorado County (portion)	Ν			
Mariposa County	Ν			
Nevada County	Ν			
Placer County (portion)	Ν			
Plumas County			U	
Sierra County			U	
Tuolumne County	N			
NORTH CENTRAL COAST AIR BASIN				Α
NORTH COAST AIR BASIN				Α

	N	NA-T	U	Α
NORTHEAST PLATEAU AIR BASIN				Α
SACRAMENTO VALLEY AIR BASIN				
Colusa and Glenn Counties				Α
Shasta County		NA-T		
Sutter/Yuba Counties				
Sutter Buttes	Ν			
Remainder of Sutter County	Ν			
Yuba County	Ν			
Yolo/Solano Counties		NA-T		
Remainder of Air Basin	Ν			
SALTON SEA AIR BASIN	Ν			
SAN DIEGO AIR BASIN	Ν			
SAN FRANCISCO BAY AREA AIR BASIN	N			
SAN JOAQUIN VALLEY AIR BASIN	Ν			
SOUTH CENTRAL COAST AIR BASIN				
San Luis Obispo County	Ν			
Santa Barbara County	Ν			
Ventura County	N			
SOUTH COAST AIR BASIN	N			

¹ AB 3048 (Olberg) and AB 2525 (Miller) signed into law in 1996, made changes to Health and Safety Code, section 40925.5. One of the changes allows nonattainment districts to become nonattainment-transitional for ozone by operation of law.

Figure 2

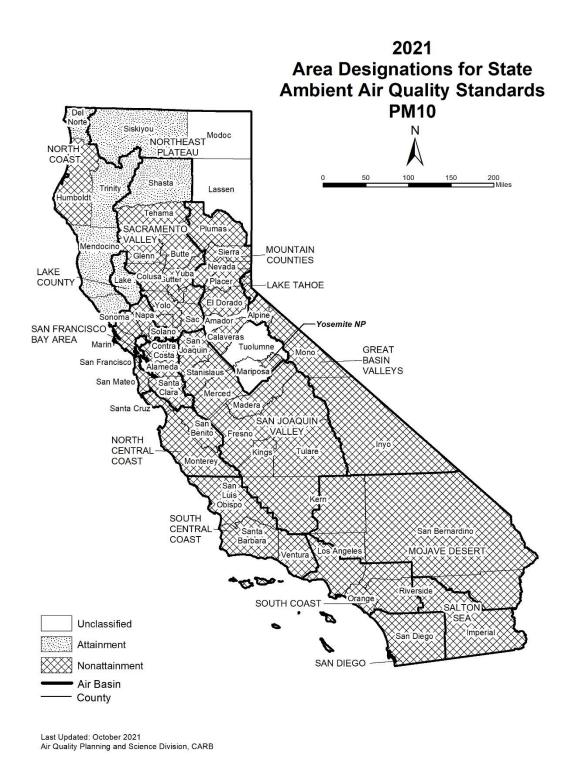


Table 2 California Ambient Air Quality Standards Area Designation for Suspended Particulate Matter (PM_{10})

	N	U	Α
GREAT BASIN VALLEYS AIR BASIN	Ν		
LAKE COUNTY AIR BASIN			Α
LAKE TAHOE AIR BASIN	Ν		
MOJAVE DESERT AIR BASIN	Ν		
MOUNTAIN COUNTIES AIR BASIN			
Amador County		J	
Calaveras County	Ν		
El Dorado County (portion)	Ν		
Mariposa County			
- Yosemite National Park	Ν		
- Remainder of County		\supset	
Nevada County	Ν		
Placer County (portion)	Ν		
Plumas County	Ν		
Sierra County	Ν		
Tuolumne County		J	

	N	U	Α
NORTH CENTRAL COAST AIR BASIN	Ν		
NORTH COAST AIR BASIN			
Del Norte, Mendocino, Sonoma (portion) and Trinity Counties			Α
Remainder of Air Basin	Ν		
NORTHEAST PLATEAU AIR BASIN			
Siskiyou County			Α
Remainder of Air Basin		U	
SACRAMENTO VALLEY AIR BASIN			
Shasta County			Α
Remainder of Air Basin	Ν		
SALTON SEA AIR BASIN	Ν		
SAN DIEGO AIR BASIN	Ν		
SAN FRANCISCO BAY AREA AIR BASIN	N		
SAN JOAQUIN VALLEY AIR BASIN	Ν		
SOUTH CENTRAL COAST AIR BASIN	N		
SOUTH COAST AIR BASIN	N		

Figure 3

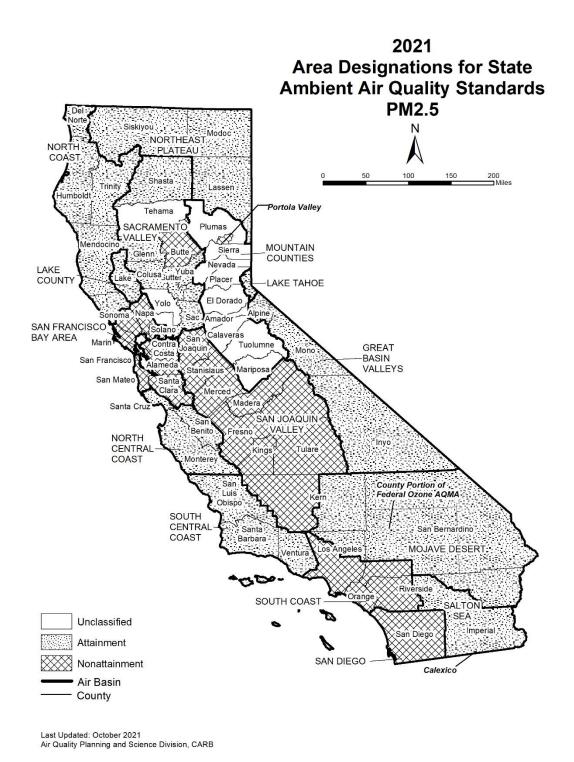


Table 3 California Ambient Air Quality Standards Area Designations for Fine Particulate Matter ($PM_{2.5}$)

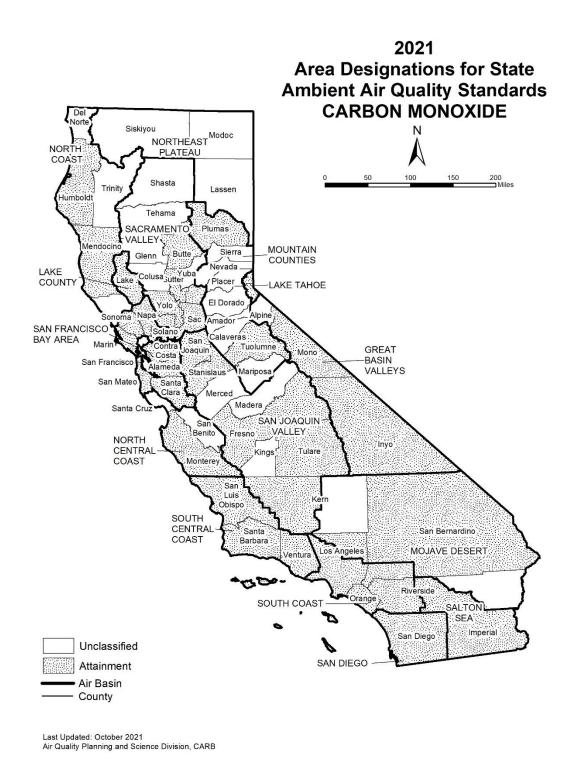
	N	U	Α
GREAT BASIN VALLEYS AIR BASIN			Α
LAKE COUNTY AIR BASIN			Α
LAKE TAHOE AIR BASIN			Α
MOJAVE DESERT AIR BASIN			Α
MOUNTAIN COUNTIES AIR BASIN			Α
Plumas County			Α
- Portola Valley¹	N		
Remainder of Air Basin		U	
NORTH CENTRAL COAST AIR BASIN			Α
NORTH COAST AIR BASIN			Α
NORTHEAST PLATEAU AIR BASIN			Α
SACRAMENTO VALLEY AIR BASIN			
Butte County	N		
Colusa County			Α
Glenn County			Α
Placer County (portion)			Α
Sacramento County			Α
Shasta County			Α
Sutter and Yuba Counties			Α
Remainder of Air Basin		U	

	N	U	Α
SALTON SEA AIR BASIN			
Imperial County			
- City of Calexico ²	Ν		
Remainder of Air Basin			Α
SAN DIEGO AIR BASIN	Ν		
SAN FRANCISCO BAY AREA AIR BASIN	Ν		
SAN JOAQUIN VALLEY AIR BASIN	Ν		
SOUTH CENTRAL COAST AIR BASIN			Α
SOUTH COAST AIR BASIN	Ν		

¹ California Code of Regulations, title 17, section 60200(c)

² California Code of Regulations, title 17, section 60200(a)

Figure 4



C-11

Table 4
California Ambient Air Quality Standards Area Designation for Carbon Monoxide*

	N	NA-T	U	Α		N	NA-T	U	Α
GREAT BASIN VALLEYS AIR BASIN					SACRAMENTO VALLEY AIR BASIN				
Alpine County			U		Butte County				Α
Inyo County				Α	Colusa County			U	
Mono County				Α	Glenn County			U	
LAKE COUNTY AIR BASIN				Α	Placer County (portion)				Α
LAKE TAHOE AIR BASIN				Α	Sacramento County				Α
MOJAVE DESERT AIR BASIN					Shasta County			U	
Kern County (portion)			U		Solano County (portion)				Α
Los Angeles County (portion)				Α	Sutter County				Α
Riverside County (portion)			U		Tehama County			U	
San Bernardino County (portion)				Α	Yolo County				Α
MOUNTAIN COUNTIES AIR BASIN					Yuba County			U	
Amador County			U		SALTON SEA AIR BASIN				Α
Calaveras County			U		SAN DIEGO AIR BASIN				Α
El Dorado County (portion)			U		SAN FRANCISCO BAY AREA AIR BASIN				Α
Mariposa County			U		SAN JOAQUIN VALLEY AIR BASIN				
Nevada County			U		Fresno County				Α
Placer County (portion)			U		Kern County (portion)				Α
Plumas County				Α	Kings County			U	
Sierra County			U		Madera County			U	
Tuolumne County				Α	Merced County			U	
NORTH CENTRAL COAST AIR BASIN					San Joaquin County				Α
Monterey County				Α	Stanislaus County				Α
San Benito County			U		Tulare County				Α
Santa Cruz County			U		SOUTH CENTRAL COAST AIR BASIN				Α
NORTH COAST AIR BASIN					SOUTH COAST AIR BASIN				Α
Del Norte County			U						
Humboldt County				Α					
Mendocino County				Α					
Sonoma County (portion)			U						
Trinity County			U						
NORTHEAST PLATEAU AIR BASIN		-	U						

^{*} The area designated for carbon monoxide is a county or portion of a county

Figure 5



Last Updated: October 2021 Air Quality Planning and Science Division, CARB

Table 5 California Ambient Air Quality Standards Area Designations for Nitrogen Dioxide

	N	J	Α
GREAT BASIN VALLEYS AIR BASIN			Α
LAKE COUNTY AIR BASIN			Α
LAKE TAHOE AIR BASIN			Α
MOJAVE DESERT AIR BASIN			Α
MOUNTAIN COUNTIES AIR BASIN			Α
NORTH CENTRAL COAST AIR BASIN			Α
NORTH COAST AIR BASIN			Α
NORTHEAST PLATEAU AIR BASIN			Α

	N	U	Α
SACRAMENTO VALLEY AIR BASIN			Α
SALTON SEA AIR BASIN			Α
SAN DIEGO AIR BASIN			Α
SAN FRANCISCO BAY AREA AIR BASIN			Α
SAN JOAQUIN VALLEY AIR BASIN			Α
SOUTH CENTRAL COAST AIR BASIN			Α
SOUTH COAST AIR BASIN			
CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties			A
Remainder of Air Basin			Α

Figure 6



Table 6 California Ambient Air Quality Standards Area Designation for Sulfur Dioxide*

	N	Α
GREAT BASIN VALLEYS AIR BASIN		Α
LAKE COUNTY AIR BASIN		Α
LAKE TAHOE AIR BASIN		Α
MOJAVE DESERT AIR BASIN		Α
MOUNTAIN COUNTIES AIR BASIN		Α
NORTH CENTRAL COAST AIR BASIN		Α
NORTH COAST AIR BASIN		Α
NORTHEAST PLATEAU AIR BASIN		Α

	N	Α
SACRAMENTO VALLEY AIR BASIN		Α
SALTON SEA AIR BASIN		Α
SAN DIEGO AIR BASIN		Α
SAN FRANCISCO BAY AREA AIR BASIN		Α
SAN JOAQUIN VALLEY AIR BASIN		Α
SOUTH CENTRAL COAST AIR BASIN		Α
SOUTH COAST AIR BASIN		Α

^{*} The area designated for sulfur dioxide is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

Figure 7



Table 7
California Ambient Air Quality Standards Area Designation for Sulfates

	N	J	Α
GREAT BASIN VALLEYS AIR BASIN			Α
LAKE COUNTY AIR BASIN			Α
LAKE TAHOE AIR BASIN			Α
MOJAVE DESERT AIR BASIN			Α
MOUNTAIN COUNTIES AIR BASIN			Α
NORTH CENTRAL COAST AIR BASIN			Α
NORTH COAST AIR BASIN			Α
NORTHEAST PLATEAU AIR BASIN			Α

	Ν	J	Α
SACRAMENTO VALLEY AIR BASIN			Α
SALTON SEA AIR BASIN			Α
SAN DIEGO AIR BASIN			Α
SAN FRANCISCO BAY AREA AIR BASIN			Α
SAN JOAQUIN VALLEY AIR BASIN			Α
SOUTH CENTRAL COAST AIR BASIN			Α
SOUTH COAST AIR BASIN			Α

Figure 8

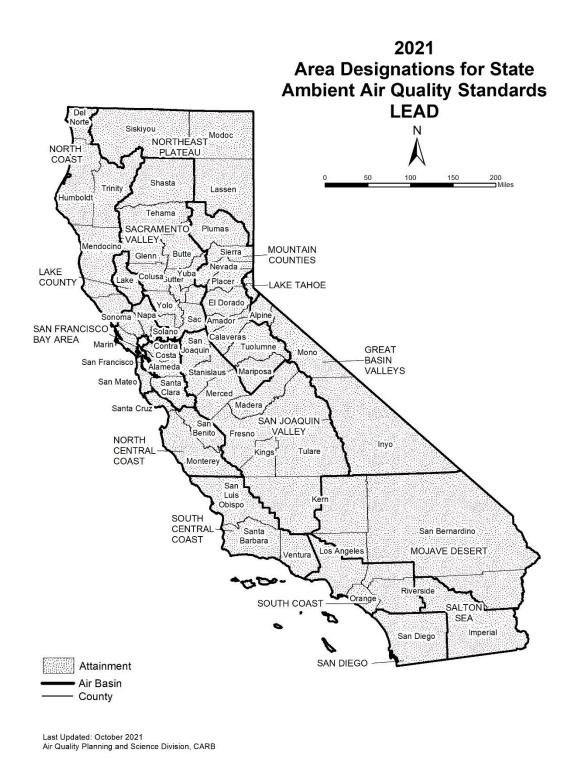


Table 8
California Ambient Air Quality Standards Area Designations for Lead (particulate)*

	N	U	Α
GREAT BASIN VALLEYS AIR BASIN			Α
LAKE COUNTY AIR BASIN			Α
LAKE TAHOE AIR BASIN			Α
MOJAVE DESERT AIR BASIN			Α
MOUNTAIN COUNTIES AIR BASIN			Α
NORTH CENTRAL COAST AIR BASIN			Α
NORTH COAST AIR BASIN			Α
NORTHEAST PLATEAU AIR BASIN			Α
SACRAMENTO VALLEY AIR BASIN			Α

	N	5	Α
SALTON SEA AIR BASIN			Α
SAN DIEGO AIR BASIN			Α
SAN FRANCISCO BAY AREA AIR BASIN			Α
SAN JOAQUIN VALLEY AIR BASIN			Α
SOUTH CENTRAL COAST AIR BASIN			Α
SOUTH COAST AIR BASIN			Α

^{*} The area designated for lead is a county or portion of a county. Since all areas in the State are in attainment for this standard, air basins are indicated here for simplicity.

Figure 9



Table 9 California Ambient Air Quality Standards Area Designation for Hydrogen Sulfide*

	N	NA-T	U	Α
GREAT BASIN VALLEYS AIR BASIN	- 1.	1117	<u> </u>	<u> </u>
Alpine County		1	U	
Inyo County				Α
Mono County				Α
LAKE COUNTY AIR BASIN				Α
			U	
LAKE TAHOE AIR BASIN		1	10	
MOJAVE DESERT AIR BASIN		T	Τυ	1
Kern County (portion)		1	+	
Los Angeles County (portion)			U	
Riverside County (portion)			U	
San Bernardino County (portion)		,		1
- Searles Valley Planning Area ¹	N			
- Remainder of County			U	
MOUNTAIN COUNTIES AIR BASIN				
Amador County				
- City of Sutter Creek	N			
- Remainder of County			U	
Calaveras County			U	
El Dorado County (portion)			U	
Mariposa County			U	
Nevada County			U	
Placer County (portion)			U	
Plumas County			U	
Sierra County			U	
Tuolumne County			U	

Γ		ı		
	N	NA-T	U	Α
NORTH CENTRAL COAST AIR BASIN			U	
NORTH COAST AIR BASIN				
Del Norte County			U	
Humboldt County				Α
Mendocino County			U	
Sonoma County (portion)				
- Geyser Geothermal Area ²				Α
- Remainder of County			U	
Trinity County			U	
NORTHEAST PLATEAU AIR BASIN			U	
SACRAMENTO VALLEY AIR BASIN			U	
SALTON SEA AIR BASIN			U	
SAN DIEGO AIR BASIN			U	
SAN FRANCISCO BAY AREA AIR BASIN			U	
SAN JOAQUIN VALLEY AIR BASIN			U	
SOUTH CENTRAL COAST AIR BASIN				
San Luis Obispo County				Α
Santa Barbara County				Α
Ventura County			U	
SOUTH COAST AIR BASIN			U	

^{*} The area designated for hydrogen sulfide is a county or portion of a county

¹ 52 Federal Register 29384 (August 7, 1987)

² California Code of Regulations, title 17, section 60200(d)

Figure 10

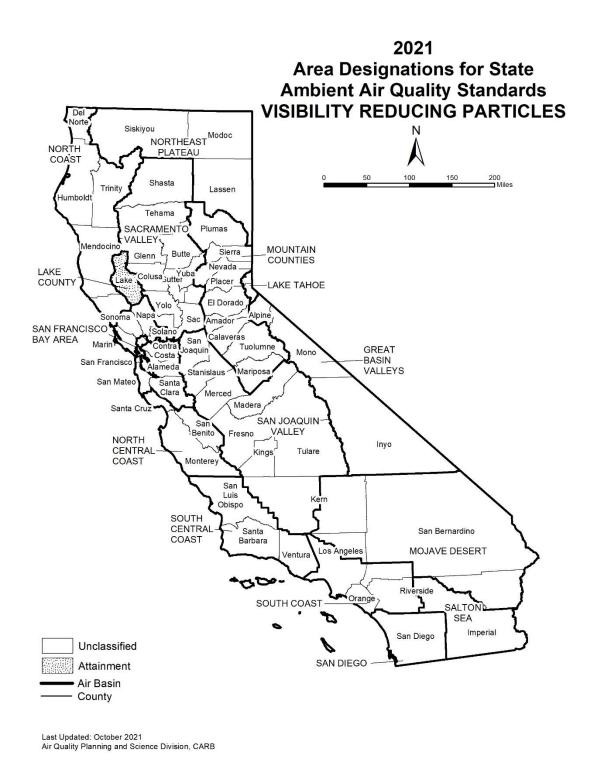


Table 10 California Ambient Air Quality Standards Area Designation for Visibility Reducing Particles

	N	NA-T	U	Α
GREAT BASIN VALLEYS AIR BASIN			U	
LAKE COUNTY AIR BASIN				Α
LAKE TAHOE AIR BASIN			U	
MOJAVE DESERT AIR BASIN			U	
MOUNTAIN COUNTIES AIR BASIN			U	
NORTH CENTRAL COAST AIR BASIN			U	
NORTH COAST AIR BASIN			U	
NORTHEAST PLATEAU AIR BASIN			U	

	N	NA-T	U	Α
SACRAMENTO VALLEY AIR BASIN			U	
SALTON SEA AIR BASIN			U	
SAN DIEGO AIR BASIN			U	
SAN FRANCISCO BAY AREA AIR BASIN			U	
SAN JOAQUIN VALLEY AIR BASIN			U	
SOUTH CENTRAL COAST AIR BASIN			U	
SOUTH COAST AIR BASIN			U	

Area Designations for the National Ambient Air Quality Standards

The following maps and tables show the area designations for each pollutant with a national ambient air quality standard. Additional information about the federal area designations is available on the U.S. Environmental Protection Agency (U.S. EPA) website:

https://www.epa.gov/green-book

Over the last several years, U.S. EPA has been reviewing the levels of the various national standards. The agency has already promulgated new standard levels for some pollutants and is considering revising the levels for others. Information about the status of these reviews is available on the U.S. EPA website:

https://www.epa.gov/criteria-air-pollutants

Designation Categories

Suspended Particulate Matter (PM_{10}). The U.S. EPA uses three categories to designate areas with respect to PM_{10} :

- Attainment (A)
- Nonattainment (N)
- Unclassifiable (U)

Ozone, Fine Suspended Particulate Matter ($PM_{2.5}$), Carbon Monoxide (CO), and Nitrogen Dioxide (NO_2). The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment (N)
- Unclassifiable/Attainment (U/A)

The national 1-hour ozone standard was revoked effective June 15, 2005, and the area designations map reflects the 2015 national 8-hour ozone standard of 0.070 ppm. Area designations were finalized on August 3, 2018.

On December 14, 2012, the U.S. EPA established a new national annual primary PM_{2.5} standard of 12.0 μ g/m³. Area designations were finalized in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 μ g/m³ as well as the 24-hour standard of 35 μ g/m³, revised in 2006.

On January 22, 2010, the U.S. EPA established a new national 1-hour NO₂ standard of 100 parts per billion (ppb) and retained the annual average standard of 53 ppb. Designations for the primary NO_2 standard became effective on February 29, 2012. All areas of California meet this standard.

Sulfur Dioxide (SO₂). The U.S. EPA uses three categories to designate areas with respect to the 24-hour and annual average sulfur dioxide standards. These designation categories are:

- Nonattainment (N),
- Unclassifiable (U), and
- Unclassifiable/Attainment (U/A).

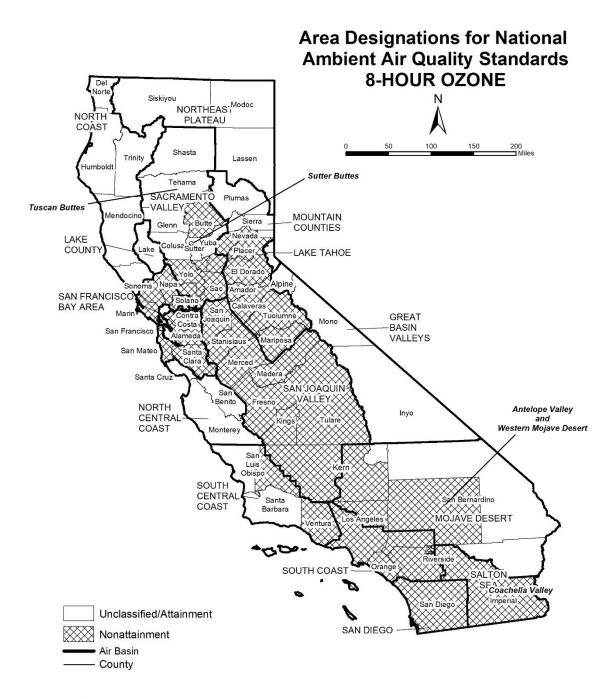
On June 2, 2010, the U.S. EPA established a new primary 1-hour SO₂ standard of 75 parts per billion (ppb). At the same time, U.S. EPA revoked the 24-hour and annual average standards. Area designations for the 1-hour SO₂ standard were finalized on December 21, 2017 and are reflected in the area designations map.

Lead (particulate). The U.S. EPA promulgated a new rolling 3-month average lead standard in October 2008 of 0.15 μ g/m³. Designations were made for this standard in November 2010.

Designation Areas

From time to time, the boundaries of the California air basins have been changed to facilitate the planning process. CARB generally initiates these changes, and they are not always reflected in the U.S. EPA's area designations. For purposes of consistency, the maps in this attachment reflect area designation boundaries and nomenclature as promulgated by the U.S. EPA. In some cases, these may not be the same as those adopted by CARB. For example, the national area designations reflect the former Southeast Desert Air Basin. In accordance with Health and Safety Code section 39606.1, CARB redefined this area in 1996 to be the Mojave Desert Air Basin and Salton Sea Air Basin. The definitions and boundaries for all areas designated for the national standards can be found in Title 40, Code of Federal Regulations (CFR), Chapter I, Subchapter C, Part 81.305. They are available on the web at: https://ecfr.io/Title-40/se40.20.81 1305

Figure 11



Last Updated: October 2021 Map reflects the 2015 8-hour ozone standard of 0.070 ppm Air Quality Planning and Science Division, CARB

Table 11
National Ambient Air Quality Standards Area Designations for 8-Hour Ozone*

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		
Amador County	N	
Calaveras County	N	
El Dorado County (portion) ¹	N	
Mariposa County	N	
Nevada County		
- Western Nevada County	N	
- Remainder of County		U/A
Placer County (portion) ¹	N	
Plumas County		U/A
Sierra County		U/A
Tuolumne County	N	
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A
SACRAMENTO VALLEY AIR BASIN		
Butte County	N	
Colusa County		U/A
Glenn County		U/A
Sacramento Metro Area ¹	N	
Shasta County		U/A
Sutter County		
- Sutter Buttes	N	
- Southern portion of Sutter County ¹	N	
- Remainder of Sutter County		U/A
Tehama County		
- Tuscan Buttes	N	
- Remainder of Tehama County		U/A

	N	U/A
SACRAMENTO VALLEY AIR BASIN (cont.)	IN	U/A
Yolo County ¹	N	
Yuba County	11	U/A
SAN DIEGO COUNTY	N	0/A
SAN FRANCISCO BAY AREA AIR BASIN	N	
SAN JOAQUIN VALLEY AIR BASIN		
	N	
SOUTH CENTRAL COAST AIR BASIN ²		
San Luis Obispo County		
- Eastern San Luis Obispo County	N	
- Remainder of County		U/A
Santa Barbara County		U/A
Ventura County		
- Area excluding Anacapa and San Nicolas Islands	N	
- Channel Islands²		U/A
SOUTH COAST AIR BASIN ²	N	
SOUTHEAST DESERT AIR BASIN		
Kern County (portion)	N	
- Indian Wells Valley		U/A
Imperial County	N	
Los Angeles County (portion)	N	
Riverside County (portion)		
- Coachella Valley	N	
- Non-AQMA portion		U/A
San Bernardino County		
- Western portion (AQMA)	N	
- Eastern portion (non-AQMA)		U/A

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands. Ventura County includes Anacapa and San Nicolas Islands.

South Coast Air Basin:

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. NOTE: This map and Table reflect the 2015 8-hour ozone standard of 0.070 ppm.

¹ For this purpose, the Sacramento Metro Area comprises all of Sacramento and Yolo Counties, the Sacramento Valley Air Basin portion of Solano County, the southern portion of Sutter County, and the Sacramento Valley and Mountain Counties Air Basins portions of Placer and El Dorado counties.

² South Central Coast Air Basin Channel Islands:

Los Angeles County includes San Clemente and Santa Catalina Islands.

Figure 12



Table 12 National Ambient Air Quality Standards Area Designations for Suspended Particulate Matter $(PM_{10})^*$

	l NI	u	
CDEAT BACIALIVALLENC AIR BACIAL	N	U	Α
GREAT BASIN VALLEYS AIR BASIN		1	
Alpine County		U	
Inyo County			
- Owens Valley Planning Area	N		
- Coso Junction			Α
- Remainder of County		U	
Mono County			
- Mammoth Lake Planning Area			Α
- Mono Lake Basin	Ν		
- Remainder of County		U	
LAKE COUNTY AIR BASIN		U	
LAKE TAHOE AIR BASIN		U	
MOUNTAIN COUNTIES AIR BASIN		U	
NORTH CENTRAL COAST AIR BASIN		U	
NORTH COAST AIR BASIN		U	
NORTHEAST PLATEAU AIR BASIN		U	
SACRAMENTO VALLEY AIR BASIN			
Sacramento County ¹			Α
Remainder of Air Basin		U	
SAN DIEGO COUNTY		U	

	N	U	Α
SAN FRANCISCO BAY AREA AIR BASIN		U	
SAN JOAQUIN VALLEY AIR BASIN			Α
SOUTH CENTRAL COAST AIR BASIN		U	
SOUTH COAST AIR BASIN			Α
SOUTHEAST DESERT AIR BASIN			
Eastern Kern County			
- Indian Wells Valley			Α
- Portion within San Joaquin Valley Planning Area	N		
- Remainder of County		U	
Imperial County			
- Imperial Valley Planning Area ²			Α
- Remainder of County		U	
Los Angeles County (portion)		С	
Riverside County (portion)			
- Coachella Valley	Ν		
- Non-AQMA portion		U	
San Bernardino County			•
- Trona	Ν		
- Remainder of County	Ν		

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

 $^{^{1}}$ Air quality in Sacramento County meets the national PM $_{10}$ standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.

² The request for redesignation to attainment for the Imperial Valley Planning Area was approved by U.S. EPA in September 2020, effective October 2020.

Figure 13

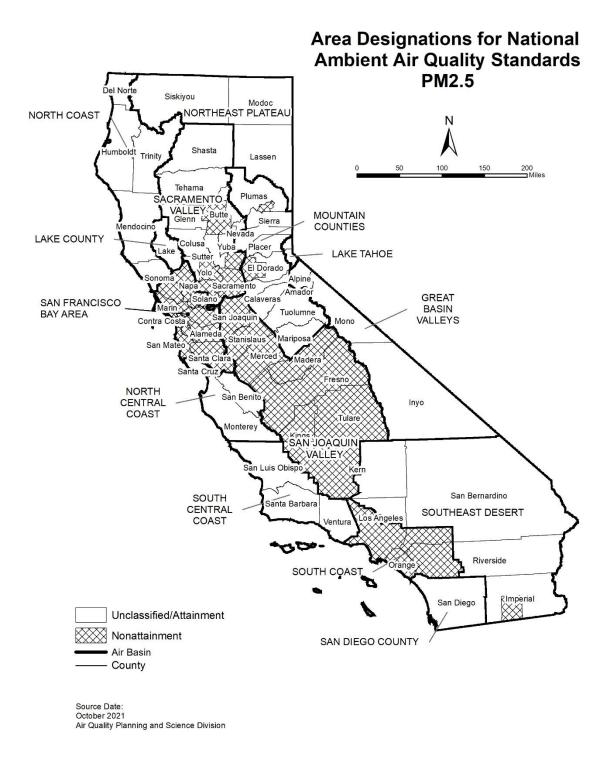


Table 13 National Ambient Air Quality Standards Area Designations for Fine Particulate Matter ($PM_{2.5}$)

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		
Plumas County		
- Portola Valley Portion of Plumas	Ν	
- Remainder of Plumas County		U/A
Remainder of Air Basin		U/A
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A
SACRAMENTO VALLEY AIR BASIN		
Sacramento Metro Area ¹	Ν	
Remainder of Air Basin		U/A

	Ν	U/A
SAN DIEGO COUNTY		U/A
SAN FRANCISCO BAY AREA AIR BASIN ²	Ν	
SAN JOAQUIN VALLEY AIR BASIN	Z	
SOUTH CENTRAL COAST AIR BASIN		U/A
SOUTH COAST AIR BASIN ³	Ν	
SOUTHEAST DESERT AIR BASIN		
Imperial County (portion) ⁴	Ν	
Remainder of Air Basin		U/A

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour $PM_{2.5}$ standard as well as the 1997 and 2012 $PM_{2.5}$ annual standards.

 $^{^1}$ For this purpose, Sacramento Metro Area comprises all of Sacramento and portions of El Dorado, Placer, Solano, and Yolo Counties. Air quality in this area meets the national PM_{2.5} standards. A Determination of Attainment for the 2006 24-hour PM_{2.5} standard was made by U.S. EPA in June 2017.

 $^{^2}$ Air quality in this area meets the national PM_{2.5} standards. A Determination of Attainment for the 2006 24-hour PM_{2.5} standard was made by U.S. EPA in June 2017.

³ Those lands of the Santa Rosa Band of Cahulla Mission Indians in Riverside County are designated Unclassifiable/Attainment.

⁴ That portion of Imperial County encompassing the urban and surrounding areas of Brawley, Calexico, El Centro, Heber, Holtville, Imperial, Seeley, and Westmorland. Air quality in this area meets the national PM_{2.5} standards. A Determination of Attainment for the 2006 24-hour PM_{2.5} standard was made by U.S. EPA in June 2017.

Figure 14

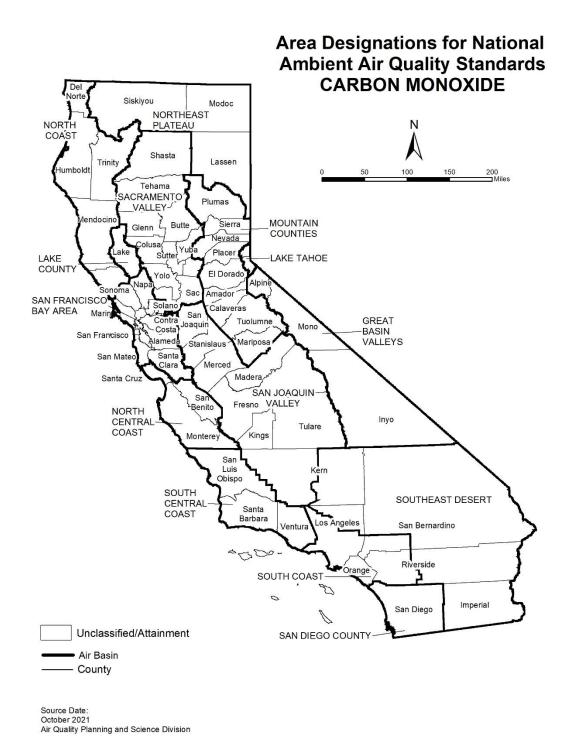


Table 14
National Ambient Air Quality Standards Area Designations for Carbon Monoxide*

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		U/A
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A

	N	U/A
SACRAMENTO VALLEY AIR BASIN		U/A
SAN DIEGO COUNTY		U/A
SAN FRANCISCO BAY AREA AIR BASIN		U/A
SAN JOAQUIN VALLEY AIR BASIN		U/A
SOUTH CENTRAL COAST AIR BASIN		U/A
SOUTH COAST AIR BASIN		U/A
SOUTHEAST DESERT AIR BASIN		U/A

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

Figure 15



Table 15 National Ambient Air Quality Standards Area Designations for Nitrogen Dioxide*

	Ν	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		U/A
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A

	Ν	U/A
SACRAMENTO VALLEY AIR BASIN		U/A
SAN DIEGO COUNTY		U/A
SAN FRANCISCO BAY AREA AIR BASIN		U/A
SAN JOAQUIN VALLEY AIR BASIN		U/A
SOUTH CENTRAL COAST AIR BASIN		U/A
SOUTH COAST AIR BASIN		U/A
SOUTHEAST DESERT AIR BASIN		U/A

 $^{^{\}star}$ Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305.

Figure 16

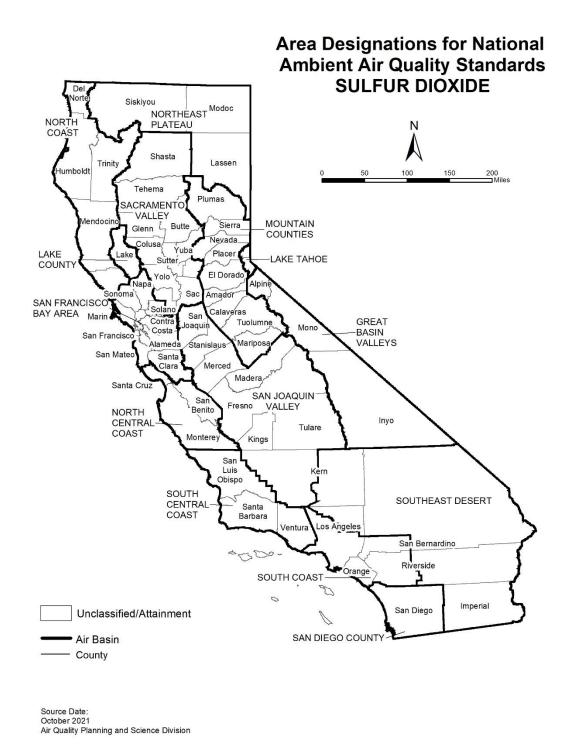


Table 16
National Ambient Air Quality Standards Area Designations for Sulfur Dioxide*

	N	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		U/A
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A
SACRAMENTO VALLEY AIR BASIN		U/A
SAN DIEGO COUNTY		U/A
SAN FRANCISCO BAY AREA AIR BASIN		U/A
SAN JOAQUIN VALLEY AIR BASIN		U/A
SOUTH CENTRAL COAST AIR BASIN ¹		U/A
SOUTH COAST AIR BASIN		U/A
SOUTHEAST DESERT AIR BASIN		U/A

^{*} Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. NOTE: This map and table reflect the 2010 1-hour SO_2 standard of 75 ppb.

¹ South Central Coast Air Basin Channel Islands:

Santa Barbara County includes Santa Cruz, San Miguel, Santa Rosa, and Santa Barbara Islands. Ventura County includes Anacapa and San Nicolas Islands.

Note that the San Clemente and Santa Catalina Islands are considered part of Los Angeles County, and therefore, are included as part of the South Coast Air Basin.

Figure 17

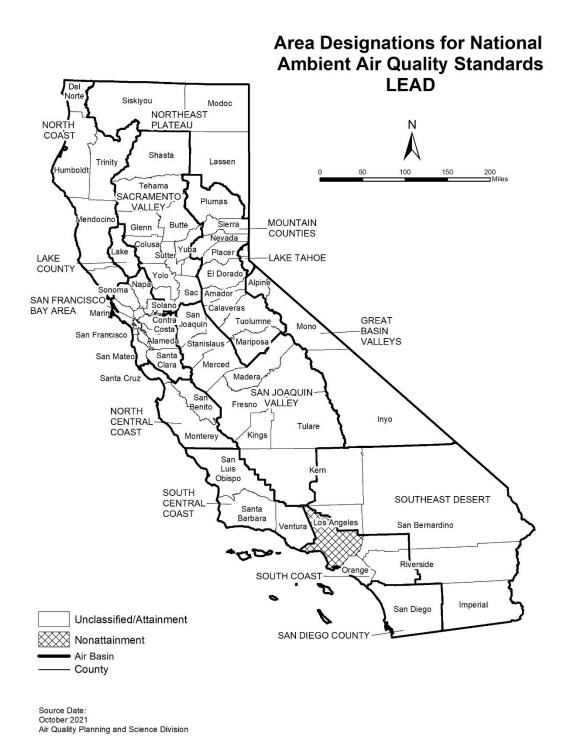


Table 17 National Ambient Air Quality Standards Area Designations for Lead (particulate)

	Ν	U/A
GREAT BASIN VALLEYS AIR BASIN		U/A
LAKE COUNTY AIR BASIN		U/A
LAKE TAHOE AIR BASIN		U/A
MOUNTAIN COUNTIES AIR BASIN		U/A
NORTH CENTRAL COAST AIR BASIN		U/A
NORTH COAST AIR BASIN		U/A
NORTHEAST PLATEAU AIR BASIN		U/A
SACRAMENTO VALLEY AIR BASIN		U/A

	Z	U/A
SAN DIEGO COUNTY		U/A
SAN FRANCISCO BAY AREA AIR BASIN		U/A
SAN JOAQUIN VALLEY AIR BASIN		U/A
SOUTH CENTRAL COAST AIR BASIN		U/A
SOUTH COAST AIR BASIN		
Los Angeles County (portion) ¹	Z	
Remainder of Air Basin		U/A
SOUTHEAST DESERT AIR BASIN		U/A

¹ Portion of County in Air Basin, not including Channel Islands

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APPENDIX 3.1:

HOUSING ELEMENT IMPLEMENTATION TABLE



ID	Address	APN	DU	Commercial S
1	8641 LOS COYOTES DR	289-162-04	1	0
2	5891 STANTON AVE	066-184-26	1	0
3	7611 5TH ST	277-071-14	1	0
4	7601 5TH ST	277-071-15	1	0
5	7571 5TH ST	277-073-15	3	0
6	7561 5TH ST	277-073-16	3	0
7	7551 5TH ST	277-073-17	3	0
8	7541 5TH ST	277-073-17	2	0
			8	
9	7531 5TH ST	277-073-19		0
10	7651 E 5TH ST	277-071-13	10	0
11	6161 FULLERTON AVE	277-071-12	2	0
12	6152 KINGMAN AVE	277-071-19	2	0
13	6141 FULLERTON AVE	277-071-11	2	0
14	6122 WESTERN AVE	277-073-25	5	0
15	7611 ARTESIA BLVD	277-101-20	1	0
16	5951 FULLERTON AVE	277-101-17	2	0
17	5941 FULLERTON AVE	277-101-16	2	0
18	5941 WESTERN AVE	066-111-14	1	0
19	5952 BURNHAM AVE	066-111-18	3	0
20	5921 BURNHAM AVE	066-112-10	1	0
21	5911 WESTERN AVE	066-111-11	1	0
22	5901 BURNHAM AVE	066-112-33	5	0
23	5891 WESTERN AVE	066-111-32	1	0
24	5893 BURNHAM AVE	066-112-37	5	0
25			5	
	5883 BURNHAM AVE	066-112-38		0
26	5872 KINGMAN AVE	277-101-30	2	0
27	5861 FULLERTON AVE	277-101-10	2	0
28	5862 KINGMAN AVE	277-101-31	2	0
29	5831 BURNHAM AVE	066-112-31	1	0
30	5801 WESTERN AVE	066-111-04	1	0
31	5781 FULLERTON AVE	277-101-03	4	0
32	5741 BURNHAM AVE	066-112-01	10	0
33	5711 WESTERN AVE	066-122-05	6	0
34	5691 WESTERN AVE	066-122-04	6	0
35	6151 INDIANA AVE	066-260-09	7	0
36	8222 4TH ST	066-260-32	1	0
37	8201 4TH ST	066-230-31	8	0
38	8207 4TH ST	066-230-64	2	0
39	8091 E 4TH ST	066-230-29	9	0
	6102 STANTON AVE	066-230-78	9	0
40	* . * = *			
41	8022 ARTESIA BLVD	066-230-67	3	0
42	8012 ARTESIA BLVD	066-230-77	3	0
43	8002 ARTESIA BLVD	066-230-76	3	0
44	5961 KINGMAN AVE	277-102-16	1	0
44	7539 ARTESIA BLVD	277-102-17	10	0
44	7521 ARTESIA BLVD	277-102-18	11	0
45	8231 9TH ST	070-034-16	3	0
46	6321 INDIANA AVE	070-012-22	7	0
47	8141 7TH ST	070-012-28	3	0
48	6311 INDIANA AVE	070-012-21	7	0
49	8201 7TH ST	070-012-06	4	0
50	6292 LOS ROBLES AVE	070-012-16	4	0
51	8191 7TH ST	070-012-25	4	0
52	8185 7TH ST	070-012-23	4	0
53	8171 7TH ST	070-012-24	4	0
54	8161 7TH ST	070-012-10	4	0
55	6281 INDIANA AVE	070-012-30	4	0
56	8151 7TH ST	070-012-11	6	0

57 682 LOS ROBLES AVE 070-012-32 5 0 0 5 6331 INDIANA AVE 070-012-32 5 0 0 6 6331 INDIANA AVE 070-034-17 1 0 0 0 6 6 8203 9TH ST 070-034-18 5 0 0 0 6 8203 9TH ST 070-034-19 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		casa Loc Bobl Ec AVE	070 040 07	-	•
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69 8151 WHITAKER ST 070-024-12 1 0 70 8131 WHITAKER ST 070-024-15 3 0 71 8121 WHITAKER ST 070-024-14 8 0 72 6461 LOS ROBLES AVE 070-023-14 2 0 73 8027 WHITAKER ST 070-023-16 1 0 74 6441 INDIANA AVE 070-024-18 1 0 75 6431 INDIANA AVE 070-024-17 2 0 76 8212 8TH ST 070-024-19 4 0 78 8192 8TH ST 070-024-19 4 0 79 8162 8TH ST 070-024-20 4 0 79 8162 8TH ST 070-024-20 4 0 80 8142 8TH ST 070-024-20 1 0 81 8132 8TH ST 070-024-02 1 0 82 8042 8TH ST 070-024-02 1 0 83 8021 8TH ST 070-021-12 2 0 </td <td>67</td> <td>8152 WHITAKER ST</td> <td>070-034-08</td> <td>1</td> <td>0</td>	67	8152 WHITAKER ST	070-034-08	1	0
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71 8121 WHITAKER ST 070-024-14 8 0 72 6461 LOS ROBLES AVE 070-023-14 2 0 73 8027 WHITAKER ST 070-023-09 1 0 74 6441 INDIANA AVE 070-024-16 1 0 75 6431 INDIANA AVE 070-024-18 1 0 76 8212 8TH ST 070-024-19 4 0 78 8182 8TH ST 070-024-20 4 0 79 8162 8TH ST 070-024-20 4 0 80 8142 8TH ST 070-024-03 1 0 81 8132 8TH ST 070-024-02 1 0 81 8132 8TH ST 070-021-02 1 0 81 8132 8TH ST 070-021-02 1 0 82 8042 8TH ST 070-021-02 1 0 83 8021 8TH ST 070-021-02 1 0 84 6391 INDIANA AVE 070-022-17 2 0	69	8151 WHITAKER ST	070-024-12	1	0
72 6461 LOS ROBLES AVE 070-023-14 2 0 0 7 7 8 8027 WHITKARE ST 070-023-09 1 0 0 7 4 6441 INDIANA AVE 070-024-16 1 0 0 7 6 6431 INDIANA AVE 070-024-18 1 0 0 7 6 8212 8TH ST 070-024-17 2 0 0 7 7 8 192 8TH ST 070-024-19 4 0 0 7 8 182 8TH ST 070-024-19 4 0 0 7 8 182 8TH ST 070-024-20 4 0 0 9 18 62 8TH ST 070-024-20 4 0 0 1 8 18 28 8TH ST 070-024-20 4 0 0 1 8 18 28 8TH ST 070-024-20 1 0 0 1 8 18 28 8TH ST 070-024-02 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	70	8131 WHITAKER ST	070-024-15	3	0
72 6461 LOS ROBLES AVE 070-023-14 2 0 0 7 7 8 8027 WHITKARE ST 070-023-09 1 0 0 7 4 6441 INDIANA AVE 070-024-16 1 0 0 7 6 6431 INDIANA AVE 070-024-18 1 0 0 7 6 8212 8TH ST 070-024-17 2 0 0 7 7 8 192 8TH ST 070-024-19 4 0 0 7 8 182 8TH ST 070-024-19 4 0 0 7 8 182 8TH ST 070-024-20 4 0 0 9 18 62 8TH ST 070-024-20 4 0 0 1 8 18 28 8TH ST 070-024-20 4 0 0 1 8 18 28 8TH ST 070-024-20 1 0 0 1 8 18 28 8TH ST 070-024-02 1 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	71	8121 WHITAKER ST	070-024-14	8	0
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	113	65/T INDIANA AVE	0/0-035-02	4	U

114	8172 CALIFORNIA ST	070-046-02	4	0
115	8142 CALIFORNIA ST	070-046-03	6	0
116	6561 INDIANA AVE	070-035-01	4	0
117	8202 9TH ST	070-035-05	4	0
118	8192 9TH ST	070-035-07	4	0
119	8182 9TH ST	070-035-08	5	0
120	5682 WESTERN AVE	066-123-01	3	0
121	5702 WESTERN AVE	066-123-02	4	0
122	5712 WESTERN AVE	066-123-03	4	0
123	7501 FRANKLIN ST			0
	7501 FRANKLIN ST 7682 CRAIG AVE	066-123-04	9	
124		066-132-09	1	0
124	7692 CRAIG AVE	066-132-15	1	0
124	7712 CRAIG AVE	066-132-16	1	0
124	7722 CRAIG AVE	066-132-17	1	0
125	7501 5TH ST	277-073-20	2	0
126	8032 8TH ST	070-023-02	1	0
127	8052 8TH ST	070-023-04	1	0
128	9051 HOLDER ST	134-031-02	2	0
129	8694 WESTERN AVE	135-132-11	12	0
130	8732 WESTERN AVE	135-133-05	9	0
131	8752 VALLEY VIEW ST	260-011-03	2	0
132	8752 VALLEY VIEW ST	260-011-04	3	0
134	7611 8TH ST	276-213-17	1	0
135	7861 MELROSE ST	276-322-16	1	0
136	BEACH BLVD/MELROSE ST	276-361-03	250	0
137	6161 KENTUCKY DR	260-021-01	4	0
138	8881 HOFFMAN ST	260-021-04	1	0
139	8901 HOFFMAN ST	260-021-05	4	0
140	6221 LINCOLN AVE	260-021-03	7	0
141			5	0
	8761 HOFFMAN ST	260-031-02		
142	8833 HOFFMAN ST	260-031-07	10	0
143	8742 HOFFMAN ST	260-032-01	7	0
144	8738 HOFFMAN ST	260-071-05	9	0
145	8246 VALLEY VIEW ST	069-283-25	66	0
146	7962 PINCHOT CT	276-312-22	2	0
147	7682 9TH ST	276-282-13	16	0
147	7692 9TH ST	276-282-14	2	0
148	7341 9TH ST	276-221-32	6	0
149	8601 WESTERN AVE	135-152-44	53	0
150	7871 COMMONWEALTH AVE	066-253-07	7	3,408
151	6212 DARLINGTON AVE	066-253-20	4	2,025
152	6211 DARLINGTON AVE	066-252-12	3	2,025
153	6202 DARLINGTON AVE	066-253-21	3	2,025
154	6201 DARLINGTON AVE	066-252-13	3	2,025
155	7811 COMMONWEALTH AVE	066-252-22	17	7,446
156	6550 KNOTT AVE	276-231-44	12	16,858
157	6186 BEACH BLVD	066-251-11	5	0
	7791 COMMONWEALTH AVE	066-251-31	43	0
	1 // 31 COMMONVEALITIAVE	000-231-31		0
157		066 251 19	Ω	
157 158	6181 HOMEWOOD AVE	066-251-18	9	
157 158 159	6181 HOMEWOOD AVE 6100 BEACH BLVD	066-251-28	2	0
157 158 159 159	6181 HOMEWOOD AVE 6100 BEACH BLVD 6172 BEACH BLVD	066-251-28 066-251-29	2 2	0
157 158 159 159 160	6181 HOMEWOOD AVE 6100 BEACH BLVD 6172 BEACH BLVD 6171 HOMEWOOD AVE	066-251-28 066-251-29 066-251-27	2 2 4	0 0 0
157 158 159 159 160 161	6181 HOMEWOOD AVE 6100 BEACH BLVD 6172 BEACH BLVD 6171 HOMEWOOD AVE 6100 BEACH BLVD	066-251-28 066-251-29 066-251-27 066-251-24	2 2 4 2	0 0 0
157 158 159 159 160 161 161	6181 HOMEWOOD AVE 6100 BEACH BLVD 6172 BEACH BLVD 6171 HOMEWOOD AVE 6100 BEACH BLVD 6100 BEACH BLVD	066-251-28 066-251-29 066-251-27 066-251-24 066-251-25	2 2 4 2 2	0 0 0 0
157 158 159 159 160 161 161 162	6181 HOMEWOOD AVE 6100 BEACH BLVD 6172 BEACH BLVD 6171 HOMEWOOD AVE 6100 BEACH BLVD 6100 BEACH BLVD 6161 HOMEWOOD AVE	066-251-28 066-251-29 066-251-27 066-251-24 066-251-25 066-251-26	2 2 4 2 2 4	0 0 0
157 158 159 159 160 161 161	6181 HOMEWOOD AVE 6100 BEACH BLVD 6172 BEACH BLVD 6171 HOMEWOOD AVE 6100 BEACH BLVD 6100 BEACH BLVD	066-251-28 066-251-29 066-251-27 066-251-24 066-251-25	2 2 4 2 2	0 0 0 0
157 158 159 159 160 161 161 162	6181 HOMEWOOD AVE 6100 BEACH BLVD 6172 BEACH BLVD 6171 HOMEWOOD AVE 6100 BEACH BLVD 6100 BEACH BLVD 6161 HOMEWOOD AVE	066-251-28 066-251-29 066-251-27 066-251-24 066-251-25 066-251-26	2 2 4 2 2 4	0 0 0 0 0
157 158 159 159 160 161 161 162 163	6181 HOMEWOOD AVE 6100 BEACH BLVD 6172 BEACH BLVD 6171 HOMEWOOD AVE 6100 BEACH BLVD 6100 BEACH BLVD 6161 HOMEWOOD AVE 6156 BEACH BLVD	066-251-28 066-251-29 066-251-27 066-251-24 066-251-25 066-251-26	2 2 4 2 2 4 2	0 0 0 0 0 0

6141 HOMEWOOD AVE 6132 BEACH BLVD 666-251-04 6132 BEACH BLVD 666-251-03 2 0 6131 HOMEWOOD AVE 666-251-03 2 0 6131 HOMEWOOD AVE 666-251-03 2 0 6131 HOMEWOOD AVE 666-251-23 4 0 0 6122 BEACH BLVD 666-251-23 4 0 0 6122 BEACH BLVD 666-251-23 4 0 0 6123 BEACH BLVD 666-251-23 4 0 0 667-251-23 4 0 0 667-251-23 4 0 0 667-251-23 4 0 0 667-251-23 4 0 0 0 667-251-23 4 0 0 0 667-251-23 4 0 0 0 667-251-23 4 0 0 0 667-251-23 4 0 0 0 0 667-251-23 4 0 0 0 0 667-251-23 4 0 0 0 0 0 667-251-23 4 0 0 0 0 0 667-251-23 4 0 0 0 0 0 667-251-23 4 0 0 0 0 0 667-251-23 4 0 0 0 0 0 0 667-251-23 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					
693 EBACH BLVD 663251-23 4 0 6131 HOMEWOOD AVE 666-251-23 4 0 6131 HOMEWOOD AVE 666-251-23 4 0 6122 BEACH BLVD 666-251-23 4 0 6122 BEACH BLVD 666-251-23 7 0 6131 HOMEWOOD AVE 666-251-30 7 0 6132 BEACH BLVD 666-241-13 4 0 6101 HOMEWOOD AVE 666-241-13 4 0 6101 HOMEWOOD AVE 666-241-14 3 0 6717 66091 HOMEWOOD AVE 666-241-14 3 0 6717 66091 HOMEWOOD AVE 666-241-14 3 0 6717 66091 HOMEWOOD AVE 666-241-15 6091 HOMEWOOD AVE 666-241-16 6091 HOMEWOOD AVE 666-241-15 6081 HOMEWOOD AVE 666-241-16 6071 HOMEWOOD AVE 666-241-25 5 0 6081 HOMEWOOD AVE 666-241-26 5 0 6081 HOMEWOOD AVE 666-241-26 5 0 6081 HOMEWOOD AVE 666-241-27 6081 HOMEWOOD AVE 666-241-26 5 0 6081 HOMEWOOD AVE 666-241-27 5 0 6081 HOMEWOOD AVE 666-241-27 6081 HOMEWOOD AVE 666-241-20 2 0 666-241-21 5 0 6032 BEACH BLVD 666-241-20 2 0 666-241-21 5 0 6032 BEACH BLVD 666-241-20 2 0 666-241-21 5 0 6034 BEACH BLVD 666-241-21 5 0 6036 BEACH BLVD 666-241-21 5 0 6036 BEACH BLVD 666-241-21 5 0 6037 BEACH BLVD 666-241-21 5 0 6038 BEACH BLVD 666-241-21 5 0 6039 BEACH BLVD 666-241-21 5 0 6039 BEACH BLVD 666-241-21 5 0 6039 BEACH BLVD 666-241-21 5 0 606-241-21 606-241-21 607-241-21 60	167	6141 HOMEWOOD AVE	066-251-21	4	0
170 6131 HOMEWOOD AVE 066-251-23 4 0 0 1717 6121 BEACH BLVD 066-251-30 7 0 0 6121 HOMEWOOD AVE 066-251-30 7 0 0 6121 BEACH BLVD 066-251-30 7 0 0 6111 HOMEWOOD AVE 066-241-12 4 0 0 61717 6102 BEACH BLVD 066-241-13 4 0 0 61717 6102 BEACH BLVD 066-241-10 4 0 0 61717 6102 BEACH BLVD 0717 6102 BEAC	168	6136 BEACH BLVD	066-251-04		0
171 6121 HOMEWOOD AVE 066-251-23 4 0 0 172 6122 BEACH BLVD 066-251-30 7 0 0 173 6111 HOMEWOOD AVE 066-241-12 4 0 0 174 6101 HOMEWOOD AVE 066-241-13 4 0 0 175 6102 BEACH BLVD 066-241-10 4 0 0 176 6091 HOMEWOOD AVE 066-241-10 4 0 0 176 6091 HOMEWOOD AVE 066-241-10 4 0 0 177 6066 BEACH BLVD 066-241-10 8 2 0 0 177 6066 BEACH BLVD 066-241-15 4 0 0 177 6066 BEACH BLVD 066-241-15 4 0 0 177 6066 BEACH BLVD 066-241-15 4 0 0 179 6071 HOMEWOOD AVE 066-241-15 4 0 0 1 179 6071 HOMEWOOD AVE 066-241-15 5 0 0 181 6051 HOMEWOOD AVE 066-241-25 5 0 0 181 6051 HOMEWOOD AVE 066-241-26 5 0 0 182 6042 BEACH BLVD 066-241-26 5 0 0 182 6042 BEACH BLVD 066-241-27 2 0 0 183 6032 BEACH BLVD 066-241-23 2 0 0 184 6026 BEACH BLVD 066-241-23 2 0 0 185 6026 BEACH BLVD 066-241-23 2 0 0 186 7781 ARTESIA BLVD 066-241-19 10 0 0 186 7781 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-09 3 0 0 188 5951 HOMEWOOD AVE 066-181-10 4 0 0 189 5921 HOMEWOOD AVE 066-181-14 4 0 0 189 5921 HOMEWOOD AVE 066-181-14 4 0 0 189 5921 HOMEWOOD AVE 066-181-15 4 0 0 189 5931 HOMEWOOD AVE 066-181-15 4 0 0 189 5931 HOMEWOOD AVE 066-181-15 4 0 0 189 5931 HOMEWOOD AVE 066-181-16 4 0 0 189 5931 HOMEWOOD AVE 066-181-17 4 0 0 189 5931 HOMEWOOD AVE 066-181-10 4	169	6132 BEACH BLVD	066-251-03	2	0
172 6122 BEACH BLVD 066-241-12 4 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	170	6131 HOMEWOOD AVE	066-251-22	4	
173 6111 HOMEWOOD AVE 066-241-12 4 0 0 175 6102 BEACH BLVD 066-241-13 4 0 0 175 6102 BEACH BLVD 066-241-14 3 0 0 175 6102 BEACH BLVD 066-241-14 3 0 0 177 6086 BEACH BLVD 066-241-09 5 0 0 177 6086 BEACH BLVD 066-241-09 5 0 0 178 6081 HOMEWOOD AVE 066-241-09 5 0 0 178 6081 HOMEWOOD AVE 066-241-15 4 0 0 179 6071 HOMEWOOD AVE 066-241-15 4 0 0 180 6061 HOMEWOOD AVE 066-241-15 5 0 0 181 6051 HOMEWOOD AVE 066-241-25 5 0 0 181 6051 HOMEWOOD AVE 066-241-26 5 0 0 182 6042 BEACH BLVD 066-241-26 5 0 0 183 6032 BEACH BLVD 066-241-21 5 0 0 183 6032 BEACH BLVD 066-241-21 5 0 0 184 6026 BEACH BLVD 066-241-22 2 0 0 185 HOMEWOOD AVE AVEARTESIA BLVD 066-241-19 10 0 0 185 7780 ARTESIA BLVD 066-241-19 10 0 0 185 7781 ARTESIA BLVD 066-241-19 10 0 0 186 781 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-10 4 0 0 189 5921 HOMEWOOD AVE 066-181-11 4 0 0 189 5921 HOMEWOOD AVE 066-181-14 4 0 0 189 5921 HOMEWOOD AVE 066-181-15 5 0 189 5621 BEACH BLVD 066-183-15 9 0 0 189 5621 BEACH B	171	6121 HOMEWOOD AVE	066-251-23	4	0
174 6101 HOMEWOOD AVE 066-241-13 4 0 0 176 6091 HOMEWOOD AVE 066-241-14 3 0 0 176 6091 HOMEWOOD AVE 066-241-14 3 0 0 177 6091 HOMEWOOD AVE 066-241-15 4 0 0 177 6086 BEACH BLVD 066-241-15 4 0 0 177 6086 BEACH BLVD 066-241-15 4 0 0 179 6071 HOMEWOOD AVE 066-241-15 4 0 0 179 6071 HOMEWOOD AVE 066-241-15 5 0 0 180 6061 HOMEWOOD AVE 066-241-25 5 0 0 181 6061 HOMEWOOD AVE 066-241-25 5 0 0 181 6061 HOMEWOOD AVE 066-241-25 5 0 0 181 6092 BEACH BLVD 066-241-21 5 0 0 181 6092 BEACH BLVD 066-241-21 5 0 0 181 6092 BEACH BLVD 066-241-22 2 0 0 184 6026 BEACH BLVD 066-241-23 2 0 0 185 HOMEWOOD AVE/ARTESIA BLVD 066-241-23 2 0 0 185 780 ARTESIA BLVD 066-241-18 11 0 0 185 7780 ARTESIA BLVD 066-241-18 11 0 0 185 7780 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-09 4 0 0 188 5951 HOMEWOOD AVE 066-181-10 4 0 0 189 5921 HOMEWOOD AVE 066-181-10 4 0 0 191 5901 HOMEWOOD AVE 066-181-11 17 0 0 191 5901 HOMEWOOD AVE 066-181-11 17 0 0 191 5901 HOMEWOOD AVE 066-181-11 17 0 0 191 5901 HOMEWOOD AVE 066-181-10 4 0 0 191 5901 HOMEWOOD AVE 066-181-11 17 0 0 191 5901 HOMEWOOD AVE 066-171-09 4 0 0 191 595 5781 HOMEWOOD AVE 066-171-10 4 0 0 191 595 5781 HOMEWOOD AVE 066-171-10 4 0 0 191 595 5781 HOMEWOOD AVE 066-171-11 5 0 0 196 5771 HOMEWOOD AVE 066-171-11 5 0 0 196 5771 HOMEWOOD AVE 066-171-11 5 0 0 196 5771 HOMEWOOD AVE 066-181-10 4 0 0 196 5771 HOMEWOOD AVE 066-181-10 4 0 0 196 5771 HOMEWOOD AVE 066-171-10 4 0 0 196 5771 HOMEWOOD AVE 066-171-11 5 0 0 196 5771 HOMEWOOD AVE 066-171-11 5 0 0 196 5771 HOMEWOOD AVE 066-171-10 4 0 0 196 5771 HOMEWOOD AVE 066-171-10 4 0 0 196 5771 HOMEWOOD AVE 066-171-11 5 0 0 196 5771 HOMEWOOD AVE 066-171-10 4 0 0 196 5	172	6122 BEACH BLVD	066-251-30	7	0
175 6102 BEACH BLVD 066-241-10 4 0 176 6091 HOMEWOOD AVE 066-241-14 3 0 0 177 6066 BEACH BLVD/HTH ST 066-241-09 5 0 0 178 6086 BEACH BLVD 066-241-15 4 0 0 178 6081 HOMEWOOD AVE 066-241-15 4 0 0 180 6061 HOMEWOOD AVE 066-241-16 10 0 0 6061 HOMEWOOD AVE 066-241-25 5 0 0 181 6061 HOMEWOOD AVE 066-241-25 5 0 0 181 6061 HOMEWOOD AVE 066-241-25 5 0 0 181 6061 HOMEWOOD AVE 066-241-26 5 0 0 606-241-21 5 0 0 181 6061 HOMEWOOD AVE 066-241-21 5 0 0 181 6061 BLVD 066-241-20 2 0 0 181 6062 BEACH BLVD 066-241-20 2 0 0 181 6062 BEACH BLVD 066-241-32 1 0 0 181 6062 BEACH BLVD 066-241-30 2 0 0 181 6062 BEACH BLVD 066-241-39 10 0 0 181 6781 ARTESIA BLVD 066-241-39 10 0 0 181 67781 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-08 4 0 0 188 5951 HOMEWOOD AVE 066-181-10 4 0 0 188 5951 HOMEWOOD AVE 066-181-10 4 0 0 189 5921 HOMEWOOD AVE 066-181-14 4 0 0 191 5911 HOMEWOOD AVE 066-181-14 4 0 0 191 5911 HOMEWOOD AVE 066-181-14 4 0 0 191 5911 HOMEWOOD AVE 066-181-14 4 0 0 191 591 HOMEWOOD AVE 066-181-15 4 0 0 191 591 HOMEWOOD AVE 066-181-15 4 0 0 191 591 HOMEWOOD AVE 066-181-15 4 0 0 191 591 HOMEWOOD AVE 066-181-16 4 0 0 191 591 HOMEWOOD AVE 066-171-09 4 0 0 191 591 HOMEWOOD AVE 066-171-09 4 0 0 191 591 HOMEWOOD AVE 066-171-00 4 0 0 191 591 HOMEWOOD AVE 066-171-00 4 0 0 191 591 HOMEWOOD AVE 066-171-10 4 0 0 191 591 HOMEWOOD AVE 066-171-10 4 0 0 191 591 HOMEWOOD AVE 066-171-10 4 0 0 191 591 HOMEWOOD AVE 066-181-12 1 7 0 0 191 591 HOMEWOOD AVE 066-171-10 4 0 0 191 591 573 BEACH BLVD 066-181-20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	173	6111 HOMEWOOD AVE	066-241-12	4	0
176 6091 HOMEWOOD AVE 066-241-14 3 0 0 177 6086 BEACH BLVD 066-241-09 5 0 0 177 6086 BEACH BLVD 066-241-09 5 0 0 178 6081 HOMEWOOD AVE 066-241-15 4 0 0 179 6071 HOMEWOOD AVE 066-241-15 10 0 0 180 6061 HOMEWOOD AVE 066-241-25 5 0 0 181 6051 HOMEWOOD AVE 066-241-26 5 0 0 182 6042 BEACH BLVD 066-241-26 5 0 0 182 6042 BEACH BLVD 066-241-20 2 0 0 183 6032 BEACH BLVD 066-241-20 2 0 0 184 6026 BEACH BLVD 066-241-23 2 0 0 185 185 HOMEWOOD AVE/ARTESIA BLVD 066-241-18 11 0 0 185 7780 ARTESIA BLVD 066-241-19 10 0 0 186 7781 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-09 4 0 0 188 5951 HOMEWOOD AVE 066-181-10 4 0 0 188 5951 HOMEWOOD AVE 066-181-10 4 0 0 189 5921 HOMEWOOD AVE 066-181-13 4 0 0 190 5911 HOMEWOOD AVE 066-181-15 4 0 0 191 5901 HOMEWOOD AVE 066-181-15 4 0 0 191 5901 HOMEWOOD AVE 066-181-17 4 0 0 191 5901 HOMEWOOD AVE 066-171-09 4 0 0 191 591 HOMEWOOD AVE 066-171-09 4 0 0 191 591 HOMEWOOD AVE 066-171-09 4 0 0 191 5771 HOMEWOOD AVE 066-171-10 4 0 0 195 5781 HOMEWOOD AVE 066-181-22 18 0 0 198 5801 HOMEWOOD AVE 066-181-15 19 0 0 198 5801 HOMEWOOD AVE 066-181-15 19 0 0 198 5801 HOMEWOOD AVE 066-181-10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	174	6101 HOMEWOOD AVE	066-241-13	4	0
177 BEACH BLVD/4TH ST 066-241-08 2 0 0 178 6086 BACH BLVD 066-241-15 4 0 0 178 6081 BACKH BLVD 066-241-15 4 0 0 179 6071 HOMEWOOD AVE 066-241-15 5 0 0 181 6051 HOMEWOOD AVE 066-241-25 5 0 0 181 6051 HOMEWOOD AVE 066-241-25 5 0 0 181 6051 HOMEWOOD AVE 066-241-25 5 0 0 181 6051 HOMEWOOD AVE 066-241-26 5 0 0 181 6051 HOMEWOOD AVE 066-241-20 2 0 183 6032 BEACH BLVD 066-241-20 2 0 183 6032 BEACH BLVD 066-241-32 2 0 185 14 6026 BEACH BLVD 066-241-32 2 0 185 14 6026 BEACH BLVD 066-241-32 2 0 185 14 6026 BEACH BLVD 066-241-18 11 0 1 185 7780 ARTESIA BLVD 066-241-19 10 0 1 187 7771 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-09 3 0 0 188 5921 HOMEWOOD AVE 066-181-10 4 0 0 189 5921 HOMEWOOD AVE 066-181-10 4 0 0 189 5921 HOMEWOOD AVE 066-181-13 4 0 0 189 591 HOMEWOOD AVE 066-181-15 4 0 0 199 5901 HOMEWOOD AVE 066-171-08 4 0 0 199 5791 HOMEWOOD AVE 066-171-09 4 0 0 195 5781 HOMEWOOD AVE 066-171-10 4 0 0 195 5781 HOMEWOOD AVE 066-171-10 4 0 0 195 5791 BEACH BLVD 066-132-21 15 0 0 195 5791 BEACH BLVD 066-132-10 17 0 0 195 5791 B	175	6102 BEACH BLVD	066-241-10	4	0
177 6086 BEACH BLVD 066-241-15 4 0 179 6071 HOMEWOOD AVE 066-241-15 4 0 180 6061 HOMEWOOD AVE 066-241-15 10 0 180 6061 HOMEWOOD AVE 066-241-25 5 0 181 6051 HOMEWOOD AVE 066-241-25 5 0 182 6052 BEACH BLVD 066-241-21 5 0 183 6032 BEACH BLVD 066-241-20 2 0 184 6026 BEACH BLVD 066-241-20 2 0 185 HOMEWOOD AVEARITESIA BLVD 066-241-18 11 0 185 7780 ARTESIA BLVD 066-241-19 10 0 186 7781 ARTESIA BLVD 066-181-09 3 0 187 7771 ARTESIA BLVD 066-181-09 3 0 188 5951 HOMEWOOD AVE 066-181-08 4 0 189 5921 HOMEWOOD AVE 066-181-10 4 0 190 5911 HOMEWOOD AVE 066-181-14 4 0 191 5901 HOMEWOOD AVE 066-181-14 4 0 192 588 HOMEWOOD AVE 066-181-15 4 0 192 588 HOMEWOOD AVE 066-181-15 4 0 193 5801 HOMEWOOD AVE 066-181-10 4 0 194 5791 HOMEWOOD AVE 066-171-09 4 0 195 5731 HOMEWOOD AVE 066-171-10 4 0 196 5771 HOMEWOOD AVE 066-171-10 4 0 197 581 HOMEWOOD AVE 066-171-10 4 0 198 5771 HOMEWOOD AVE 066-171-10 4 0 199 591 HOMEWOOD AVE 066-171-10 4 0 190 591 HOMEWOOD AVE 066-171-10 4 0 191 5771 HOMEWOOD AVE 066-171-10 4 0 192 588 HOMEWOOD AVE 066-171-10 4 0 193 5801 HOMEWOOD AVE 066-171-10 4 0 194 5771 HOMEWOOD AVE 066-171-10 4 0 195 5731 HOMEWOOD AVE 066-171-10 4 0 196 5771 HOMEWOOD AVE 066-171-10 4 0 197 5731 BEACH BLVD 066-133-22 1 15 0 198 5681 BEACH BLVD 066-133-15 19 0 199 5621 BEACH BLVD 066-133-15 19 0 100 5731 BEACH BLVD 066-133-15 19 0 100 5731 BEACH BLVD 066-131-10 4 0 100 5732 BEACH BLVD 066-131-10 4 0 100 5732 BEACH BLVD 066-131-10 4 0 100 5732 BEACH BLVD	176	6091 HOMEWOOD AVE	066-241-14	3	0
178	177	BEACH BLVD/4TH ST	066-241-08	2	0
179 6071 HOMEWOOD AVE 066-241-16 10 0 1818 6051 HOMEWOOD AVE 066-241-25 5 0 0 1818 6051 HOMEWOOD AVE 066-241-25 5 0 0 1818 6051 HOMEWOOD AVE 066-241-21 5 0 0 182 6032 BEACH BLVD 066-241-21 5 0 0 183 6032 BEACH BLVD 066-241-20 2 0 0 185 HOMEWOOD AVE/ARTESIA BLVD 066-241-23 2 0 0 185 HOMEWOOD AVE/ARTESIA BLVD 066-241-18 11 0 0 186 7781 ARTESIA BLVD 066-241-19 10 0 0 187 7781 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-09 3 0 0 187 7771 ARTESIA BLVD 066-181-09 4 0 0 188 5951 HOMEWOOD AVE 066-181-10 4 0 0 189 5921 HOMEWOOD AVE 066-181-10 4 0 0 191 5901 HOMEWOOD AVE 066-181-14 4 0 0 191 5901 HOMEWOOD AVE 066-171-10 4 0 0 191 591 HOMEWOOD AVE 066-171-10 4 0 0 191 5901 5731 BEACH BLVD 066-133-15 19 0 0 10 10 10 10 10 10 10 10 10 10 10 10	177	6086 BEACH BLVD	066-241-09	5	0
180 6061 HOMEWOOD AVE 066-241-25 5 0 181 6051 HOMEWOOD AVE 066-241-21 5 0 182 6042 BEACH BLVD 066-241-21 5 0 183 6032 BEACH BLVD 066-241-20 2 0 184 6026 BEACH BLVD 066-241-18 11 0 185 HOMEWOOD AVE/ARTESIA BLVD 066-241-19 10 0 185 T773 ARTESIA BLVD 066-181-09 3 0 186 7781 ARTESIA BLVD 066-181-09 3 0 187 7771 ARTESIA BLVD 066-181-09 3 0 188 5951 HOMEWOOD AVE 066-181-10 4 0 189 5921 HOMEWOOD AVE 066-181-13 4 0 190 5911 HOMEWOOD AVE 066-181-14 4 0 191 5901 HOMEWOOD AVE 066-181-21 17 0 192 588 HOMEWOOD AVE 066-171-08 4 0 193 5781 HOMEWOOD AVE	178	6081 HOMEWOOD AVE	066-241-15	4	0
181 6051 HOMEWOOD AVE 066-241-26 5 0 182 6042 BEACH BLVD 066-241-20 2 0 184 6026 BEACH BLVD 066-241-23 2 0 185 HOMEWOOD AVE/ARTESIA BLVD 066-241-18 11 0 185 T780 ARTESIA BLVD 066-241-19 10 0 186 7781 ARTESIA BLVD 066-181-09 3 0 187 7771 ARTESIA BLVD 066-181-08 4 0 188 5951 HOMEWOOD AVE 066-181-08 4 0 189 5921 HOMEWOOD AVE 066-181-10 4 0 190 5911 HOMEWOOD AVE 066-181-14 4 0 191 5901 HOMEWOOD AVE 066-181-15 4 0 192 588 HOMEWOOD AVE 066-181-17 7 0 193 5801 HOMEWOOD AVE 066-181-17 9 0 194 5791 HOMEWOOD AVE 066-171-08 4 0 195 5781 HOMEWOOD AVE 066-171-09 4 0 195 5781 HOMEWOOD AVE 066-171-10 4 0 195 5781 HOMEWOOD AVE 066-133-22 18 0 196 5771 HOMEWOOD AVE	179	6071 HOMEWOOD AVE	066-241-16	10	0
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217 7582 5TH ST 277-072-04 5 0 218 7581 COMMONWEALTH AVE 277-072-05 5 0 219 7601 COMMONWEALTH AVE 277-072-06 4 0 220 7621 COMMONWEALTH AVE 277-072-07 4 0 221 7631 COMMONWEALTH AVE 277-072-08 11 0 221 FULLERTON AVE/5TH ST 277-082-06 8 0					
218 7581 COMMONWEALTH AVE 277-072-05 5 0 219 7601 COMMONWEALTH AVE 277-072-06 4 0 220 7621 COMMONWEALTH AVE 277-072-07 4 0 221 7631 COMMONWEALTH AVE 277-072-08 11 0 221 FULLERTON AVE/5TH ST 277-082-06 8 0					
219 7601 COMMONWEALTH AVE 277-072-06 4 0 220 7621 COMMONWEALTH AVE 277-072-07 4 0 221 7631 COMMONWEALTH AVE 277-072-08 11 0 221 FULLERTON AVE/5TH ST 277-082-06 8 0					
220 7621 COMMONWEALTH AVE 277-072-07 4 0 221 7631 COMMONWEALTH AVE 277-072-08 11 0 221 FULLERTON AVE/5TH ST 277-082-06 8 0					
221 7631 COMMONWEALTH AVE 277-072-08 11 0 221 FULLERTON AVE/5TH ST 277-082-06 8 0					
221 FULLERTON AVE/5TH ST 277-082-06 8 0					
222 7571 COMMONWEALTH AVE 277-074-01 6 0					
	222	75/1 COMMONWEALTH AVE	277-074-01	6	0

222	ZEE4 COMMONIMENTAL AVE	277 074 02		0
223	7551 COMMONWEALTH AVE	277-074-03	6	0
224	7542 5TH ST	277-074-04	6	0
225	7501 COMMONWEALTH AVE	277-074-05	22	0
226	6025 BEACH BLVD	277-081-03	5	0
227	6031 BEACH BLVD	277-081-04	5	0
228	6035 BEACH BLVD	277-081-05	5	0
229	6071 BEACH BLVD	277-081-07	15	0
230	6001 BEACH BLVD	277-081-34	9	0
230	7701 ARTESIA BLVD	277-081-35	7	0
231	5741 BEACH BLVD	277-091-01	3	0
232	5751 BEACH BLVD	277-091-02	3	0
233	5761 BEACH BLVD	277-091-03	4	0
234	5797 BEACH BLVD	277-091-06	5	0
235	5811 BEACH BLVD	277-091-07	4	0
236	5831 BEACH BLVD	277-091-09	7	0
237	5841 BEACH BLVD	277-091-10	4	0
238	5861 BEACH BLVD	277-091-11	5	0
239	5871 BEACH BLVD	277-091-12	4	0
240	5881 BEACH BLVD	277-091-13	4	0
241	5891 BEACH BLVD	277-091-14	5	0
242	5931 BEACH BLVD	277-091-15	19	0
243	5941 BEACH BLVD	277-091-16	7	0
243	7712 FRANKLIN ST	277-091-16	7	0
	6472 STANTON AVE		5	
245		070-023-10		6,214
245	6462 STANTON AVE	070-023-11	5	6,435
246	8192 ORANGETHORPE AVE	070-072-31	4	2,174
247	8202 ORANGETHORPE AVE	070-072-32	3	2,084
248	8212 ORANGETHORPE AVE	070-072-33	3	2,083
249	8222 ORANGETHORPE AVE	070-072-34	3	2,083
250	8232 ORANGETHORPE AVE	070-072-35	7	3,070
251	7141 THOMAS ST	070-080-25	9	0
252	8295 PAGE ST	070-080-45	3	0
253	8301 PAGE ST	070-080-46	5	0
254	8400 KASS DR	070-080-47	12	0
255	8410 KASS DR	070-080-32	12	0
256	7072 THOMAS ST	070-080-15	11	0
257	7082 THOMAS ST	070-080-14	11	0
258	7102 THOMAS ST	070-080-13	24	0
259	7142 THOMAS ST	070-080-12	19	0
260	8440 KASS DR	070-080-59	54	0
260	8420 KASS DR	070-080-60	32	0
261	8460 KASS DR	070-080-58	69	0
262	8401 PAGE ST	070-080-56	82	0
263	THOMAS ST/PAGE ST	070-080-64	3	0
263	THOMAS ST/PAGE ST	070-080-65	7	0
264	8511 LA PALMA AVE	070-302-22	13	13,800
265	7930 DALE ST	070-302-23	47	50,181
266	7151 STANTON AVE	070-721-10	7	-7,314
267	7161 STANTON AVE	070-721-11	9	-8,738
268	7402 ORANGETHORPE AVE	136-172-14	25	438,333
269	7412 ORANGETHORPE AVE	136-172-14	25	438,333
270	7051 VALLEY VIEW ST	263-081-08	74	78,320
				6,299
270	ORANGETHORPE AVE/VALLEY VIEW ST	263-081-10	6	
271	6600 ORANGETHORPE AVE	263-541-01	197	0
272	7017 KNOTT AVE	263-541-06	134	140,821
273	6805 KNOTT AVE	276-142-03	45	0
274	7651 9TH ST	276-213-27	5	2,831
275	7661 9TH ST	276-213-28	4	2,253
276	7671 9TH ST	276-213-29	4	2,255

	l			
277	6555 BEACH BLVD	276-213-32	11	5,227
277	6555 BEACH BLVD	276-213-39	26	11,631
278	8201 ORANGETHORPE AVE	276-331-05	97	0
279	8251 ORANGETHORPE AVE	276-331-09	65	0
280	8101 ORANGETHORPE AVE	276-341-38	9	3,949
281	8031 ORANGETHORPE AVE	276-352-07	42	18,419
282	6940 STANTON AVE	276-352-08	8	3,907
283	8001 ORANGETHORPE AVE	276-352-11	11	4,998
284	BRENNER AVE/ORANGETHORPE AVE	276-362-09	3	1,445
285	7921 ORANGETHORPE AVE	276-362-12	24	10,589
285	7911 ORANGETHORPE AVE	276-362-17	5	2,481
286	7979 ORANGETHORPE AVE	276-362-13	10	4,571
287	6911 STANTON AVE	276-362-14	14	6,447
288	7681 ORANGETHORPE AVE	276-371-24	5	0
288	BEACH BLVD/MELROSE ST	276-371-26	13	0
288	7681 ORANGETHORPE AVE	276-371-28	24	0
288	7691 ORANGETHORPE AVE	276-371-28	212	0
288	BEACH BLVD/MELROSE ST	276-371-35	4	0
288	BEACH BLVD/MELROSE ST	276-371-36	4	0
289	7039 ORANGETHORPE AVE	276-381-09	98	0
290	6801 WESTERN AVE	276-382-08	75	0
291	6841 WESTERN AVE	276-382-09	44	0
292	6841 WESTERN AVE	276-382-10	114	120,039
292	6925 WESTERN AVE	276-382-12	7	8,103
293	WESTERN AVE/ORANGETHORPE AVE	276-382-13	14	15,239
293	7479 ORANGETHORPE AVE	276-382-14	15	15,925
293	7479 ORANGETHORPE AVE	276-382-15	56	59,671
294	7379 ORANGETHORPE AVE	276-382-18	23	24,171
294	6870 ORAN CIR	276-382-19	43	45,716
294	7321 ORANGETHORPE AVE	276-382-20	25	26,453
294	6860 ORAN CIR	276-382-21	87	91,928
294	ORAN CIR/ORANGETHORPE AVE	276-382-22	1	1,628
294	6863 ORAN CIR	276-382-23	13	13,777
294	6899 ORAN CIR	276-382-24	27	28,363
294	6951 ORAN CIR	276-382-25	22	23,189
294	7237 ORANGETHORPE CIR	276-382-26	26	28,246
	7225 ORANGETHORPE AVE			
294		276-382-27	133	58,504
294	7294 MELROSE ST	276-382-28	139	182,331
295	6281 BEACH BLVD	277-013-52	148	0
295	6281 BEACH BLVD	277-013-58	1 / 0	
200		277-013-30	148	0
296	6332 BEACH BLVD	277-013-38	2	0
296 297	6332 BEACH BLVD 6342 BEACH BLVD			
		277-041-01	2	0
297 298	6342 BEACH BLVD	277-041-01 277-041-02	2 2 2	0
297 298 299	6342 BEACH BLVD 6344 BEACH BLVD	277-041-01 277-041-02 277-041-15 277-041-16	2 2 2 2	0 0 0
297 298 299 300	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14	2 2 2 2 2	0 0 0 0
297 298 299 300 301	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18	2 2 2 2 2 2	0 0 0 0 0
297 298 299 300 301 302	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18 277-041-13	2 2 2 2 2 2 2 21 4	0 0 0 0 0 0
297 298 299 300 301 302 303	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18 277-041-13 277-041-12	2 2 2 2 2 2 2 21 4	0 0 0 0 0 0 0
297 298 299 300 301 302 303 304	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE 6361 HOMEWOOD AVE	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18 277-041-13 277-041-12 277-041-11	2 2 2 2 2 2 21 4 9	0 0 0 0 0 0 0
297 298 299 300 301 302 303 304 305	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE 6361 HOMEWOOD AVE	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18 277-041-13 277-041-12 277-041-11	2 2 2 2 2 21 4 9 4	0 0 0 0 0 0 0 0
297 298 299 300 301 302 303 304 305 306	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE 6361 HOMEWOOD AVE 6371 HOMEWOOD AVE	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-13 277-041-12 277-041-11 277-041-10 277-041-09	2 2 2 2 2 2 21 4 9 4 4	0 0 0 0 0 0 0 0 0
297 298 299 300 301 302 303 304 305	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE 6361 HOMEWOOD AVE	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18 277-041-13 277-041-12 277-041-11	2 2 2 2 2 21 4 9 4	0 0 0 0 0 0 0 0
297 298 299 300 301 302 303 304 305 306	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE 6361 HOMEWOOD AVE 6371 HOMEWOOD AVE	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-13 277-041-12 277-041-11 277-041-10 277-041-09	2 2 2 2 2 2 21 4 9 4 4	0 0 0 0 0 0 0 0 0
297 298 299 300 301 302 303 304 305 306 307	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE 6361 HOMEWOOD AVE 6371 HOMEWOOD AVE 6381 HOMEWOOD AVE	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18 277-041-13 277-041-12 277-041-11 277-041-10 277-041-09 277-041-08	2 2 2 2 2 21 4 9 4 4 4	0 0 0 0 0 0 0 0 0
297 298 299 300 301 302 303 304 305 306 307 308 309	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE 6361 HOMEWOOD AVE 6371 HOMEWOOD AVE 6381 HOMEWOOD AVE 6391 HOMEWOOD AVE	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18 277-041-12 277-041-11 277-041-10 277-041-09 277-041-08 277-041-07 277-052-17	2 2 2 2 2 21 4 9 4 4 4 4 5 3	0 0 0 0 0 0 0 0 0 0 0 0
297 298 299 300 301 302 303 304 305 306 307 308 309 310	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE 6361 HOMEWOOD AVE 6371 HOMEWOOD AVE 6381 HOMEWOOD AVE 6391 HOMEWOOD AVE 6412 AUTO CENTER DR STANTON AVE/WHITAKER ST 7957 WHITAKER ST	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18 277-041-13 277-041-12 277-041-10 277-041-09 277-041-08 277-041-07 277-052-17 277-052-18	2 2 2 2 2 21 4 9 4 4 4 4 5 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0
297 298 299 300 301 302 303 304 305 306 307 308 309 310 311	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE 6361 HOMEWOOD AVE 6371 HOMEWOOD AVE 6381 HOMEWOOD AVE 6391 HOMEWOOD AVE 6412 AUTO CENTER DR STANTON AVE/WHITAKER ST 7957 WHITAKER ST	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18 277-041-13 277-041-12 277-041-10 277-041-09 277-041-08 277-041-07 277-052-17 277-052-18 277-052-21	2 2 2 2 2 21 4 9 4 4 4 5 3 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE 6361 HOMEWOOD AVE 6371 HOMEWOOD AVE 6381 HOMEWOOD AVE 6391 HOMEWOOD AVE 6412 AUTO CENTER DR STANTON AVE/WHITAKER ST 7957 WHITAKER ST 7931 WHITAKER ST 6448 AUTO CENTER DR	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18 277-041-13 277-041-12 277-041-10 277-041-09 277-041-08 277-041-07 277-052-17 277-052-18 277-052-21 277-052-25	2 2 2 2 2 21 4 9 4 4 4 4 5 3 5 11	0 0 0 0 0 0 0 0 0 0 0 0 0 0 1,815 2,697 5,922 13,936
297 298 299 300 301 302 303 304 305 306 307 308 309 310 311	6342 BEACH BLVD 6344 BEACH BLVD 6346 BEACH BLVD 6348 BEACH BLVD 6392 BEACH BLVD 7772 7TH ST 6341 HOMEWOOD AVE 6361 HOMEWOOD AVE 6371 HOMEWOOD AVE 6381 HOMEWOOD AVE 6391 HOMEWOOD AVE 6412 AUTO CENTER DR STANTON AVE/WHITAKER ST 7957 WHITAKER ST	277-041-01 277-041-02 277-041-15 277-041-16 277-041-14 277-041-18 277-041-13 277-041-12 277-041-10 277-041-09 277-041-08 277-041-07 277-052-17 277-052-18 277-052-21	2 2 2 2 2 21 4 9 4 4 4 5 3 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

315	6532 AUTO CENTER DR	277-061-04	45	22,591
316	8951 KNOTT AVE	069-130-63	164	172,717
316	8991 LINCOLN AVE	069-130-64	15	16,188
317	8633 KNOTT AVE	069-491-21	3	0
317	8651 KNOTT AVE	069-491-24	16	0
318	9021 KNOTT AVE	134-062-18	44	19,602
318	LINCOLN GLEN DR/LINCOLN AVE	134-062-18	5	2,483
318	9011 KNOTT AVE	134-062-27	32	14,375
319	10010 VALLEY VIEW ST	134-311-32	14	14,797
319	BALL RD/VALLEY VIEW ST	134-311-36	6	6,552
319	6020 BALL RD	134-311-38	48	50,956
319	6080 BALL RD BUENA PARK	134-311-43	86	90,389
319	6010 BALL RD	134-311-44	75	78,712
320	8750 KNOTT AVE	135-181-07	17	18,222
321	8858 KNOTT AVE	135-181-07	43	45,624
321	8888 KNOTT AVE	135-182-09	119	125,453
321	8998 KNOTT AVE	135-182-03	228	239,301
322	7101 LINCOLN AVE	135-182-13	54	42,189
323	6201 LINCOLN AVE	260-022-05	20	21,640
323	6201 LINCOLN AVE	260-022-06	10	
323 324	6955 LA PALMA AVE	263-421-04	23	11,086
	6931 LA PALMA AVE	263-421-05		25,029
324			51	53,880
324	6901 LA PALMA AVE	263-421-06	22	23,364
324	6865 LA PALMA AVE	263-421-07	26	27,518
324	7905 KNOTT AVE	263-421-08	59	62,143
325	7651 KNOTT AVE	263-431-23	7	7,841
326	7091 THOMAS ST	070-080-08	23	0
327	8112 CRESCENT AVE	070-141-01	11	0
327	8530 STANTON AVE	070-141-02	7	0
328	8700 STANTON AVE	070-141-07	27	34,813
329	8030 DALE ST	070-501-01	107	121,361
330	8226 ON THE MALL	070-511-01	1,174	-817,077
331	8361 LA PALMA AVE	070-101-03	23	-21,867
331	8381 LA PALMA AVE	070-101-05	22	-20,633
331	8231 LA PALMA AVE	070-111-03	31	-28,689
331	8191 LA PALMA	070-111-07	251	-229,654
331	8161 LA PALMA AVE	070-111-08	43	-40,171
332	8374 ON THE MALL	070-511-05	35	-32,699
332	8460 LA PALMA AVE	070-511-07	16	-14,855
332	8450 ON THE MALL	070-511-08	539	-493,028
332	8376 LA PALMA AVE	070-511-14	303	-277,054
332	8201 ON THE MALL	070-511-15	381	-348,418
332	8290 ON THE MALL	070-511-16	174	-159,179
332	LA PALMA AVE/DALE ST	070-511-18	294	-269,542
333	6701 STANTON AVE	276-312-23	3	0
334	5650 KNOTT AVE	066-020-23	24	19,524
334	5648 KNOTT AVE	066-020-25	9	7,292
334	7101 CATE DR	066-020-27	670	526,902
335	8475 ARTESIA BLVD	066-391-12	97	76,448
336	7540 ORANGETHORPE AVE	136-181-21	15	-13,591
336	7540 ORANGETHORPE AVE	136-181-23	26	-23,000
336	7530 ORANGETHORPE AVE	136-181-24	45	-39,727
337	6441 LINCOLN AVE	260-042-39	13	0
338	7600 CRESCENT AVE	135-131-19	13	0
339	7082 CRESCENT AVE	135-161-41	29	0
340	8071 WHITAKER AVE	070-023-05	23	0
341	7212 MELROSE AVE	276-382-02	53	0
Total			10,322	438,333

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APPENDIX 3.2:

CALEEMOD EMISSIONS MODEL OUTPUTS



14635-Buena Park General Plan & Zoning Code Update Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	14635-Buena Park General Plan & Zoning Code Update
Lead Agency	_
Land Use Scale	Plan/community
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	18.8
Location	Buena Park, CA, USA
County	Orange
City	Buena Park
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5711
EDFZ	7
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Single Family Housing	10,322	Dwelling Unit	3,351	20,127,900	120,900,110	_	30,760	_
General Office Building	87.7	1000sqft	2.01	87,667	0.00	_	_	_

Regional Shopping	351	1000saft	8.05	350.667	0.00	_	_	
 2			3.33	333,331	0.00			
Center								

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	447	877	443	3,417	9.37	23.6	354	378	23.5	62.5	86.0	5,462	1,174,54 9	1,180,01 1	599	32.1	322	1,204,87 7
Daily, Winter (Max)	-	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Unmit.	391	824	454	2,626	9.03	23.3	354	377	23.2	62.5	85.7	5,462	1,142,05 4	1,147,51 6	600	33.3	135	1,172,56 8
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Unmit.	405	846	309	2,943	7.86	11.8	337	348	11.6	59.4	71.1	5,462	932,845	938,307	596	32.1	209	962,965
Annual (Max)	_	<u> </u>	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	74.0	154	56.5	537	1.43	2.15	61.4	63.6	2.12	10.8	13.0	904	154,443	155,347	98.6	5.31	34.6	159,430

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_
Mobile	360	333	183	2,700	7.71	2.71	354	357	2.53	62.5	65.0	_	785,324	785,324	27.9	28.4	191	794,665
Area	75.1	538	160	673	1.01	12.7	_	12.7	12.8	_	12.8	0.00	197,249	197,249	3.75	0.52	_	197,497
Energy	11.8	5.91	101	43.5	0.64	8.17	_	8.17	8.17	_	8.17	_	182,628	182,628	18.2	1.08	_	183,405
Water	_	_	_	_	_	_	_	_	_	_	_	822	9,347	10,169	85.5	2.15	_	12,945
Waste	_	_	_	_	_	_	_	_	_	_	_	4,640	0.00	4,640	464	0.00	_	16,234
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	130	130
Total	447	877	443	3,417	9.37	23.6	354	378	23.5	62.5	86.0	5,462	1,174,54 9	1,180,01 1	599	32.1	322	1,204,87 7
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	361	334	199	2,517	7.41	2.71	354	357	2.53	62.5	65.0	_	754,473	754,473	28.9	29.7	4.96	764,046
Area	18.0	484	154	65.6	0.98	12.5	_	12.5	12.5	_	12.5	0.00	195,605	195,605	3.68	0.37	_	195,807
Energy	11.8	5.91	101	43.5	0.64	8.17	_	8.17	8.17	_	8.17	_	182,628	182,628	18.2	1.08	_	183,405
Water	_	_	_	_	_	_	_	_	_	_	_	822	9,347	10,169	85.5	2.15	_	12,945
Waste	_	_	_	_	_	_	_	_	_	_	_	4,640	0.00	4,640	464	0.00	_	16,234
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	130	130
Total	391	824	454	2,626	9.03	23.3	354	377	23.2	62.5	85.7	5,462	1,142,05 4	1,147,51 6	600	33.3	135	1,172,56 8
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	353	327	194	2,479	7.13	2.59	337	339	2.42	59.4	61.9	_	726,345	726,345	27.9	28.7	78.6	735,681
Area	40.3	513	14.4	421	0.09	1.01	_	1.01	1.06	_	1.06	0.00	14,524	14,524	0.30	0.13	_	14,569
Energy	11.8	5.91	101	43.5	0.64	8.17	_	8.17	8.17	_	8.17	_	182,628	182,628	18.2	1.08	_	183,405
Water	_	_	_	_	_	_	_	_	_	_	_	822	9,347	10,169	85.5	2.15	_	12,945
Waste	_	_	_	_	_	_	_	_	_	_	_	4,640	0.00	4,640	464	0.00	_	16,234

Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	130	130
Total	405	846	309	2,943	7.86	11.8	337	348	11.6	59.4	71.1	5,462	932,845	938,307	596	32.1	209	962,965
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	64.5	59.7	35.4	452	1.30	0.47	61.4	61.9	0.44	10.8	11.3	_	120,255	120,255	4.63	4.75	13.0	121,800
Area	7.36	93.6	2.62	76.8	0.02	0.18	_	0.18	0.19	_	0.19	0.00	2,405	2,405	0.05	0.02	_	2,412
Energy	2.16	1.08	18.4	7.94	0.12	1.49	_	1.49	1.49	_	1.49	_	30,236	30,236	3.02	0.18	_	30,365
Water	_	_	_	-	_	_	_	_	_	_	_	136	1,548	1,684	14.1	0.36	_	2,143
Waste	_	_	_	_	_	_	_	_	_	_	_	768	0.00	768	76.8	0.00	_	2,688
Refrig.	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	21.6	21.6
Total	74.0	154	56.5	537	1.43	2.15	61.4	63.6	2.12	10.8	13.0	904	154,443	155,347	98.6	5.31	34.6	159,430

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Single Family Housing	_	_	_	_	_	_	_	_	_	_	_	_	50,851	50,851	6.43	0.78	_	51,245

General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	1,116	1,116	0.14	0.02	_	1,125
Regional Shopping Center	_	_	_	-	_	_	_	_	_	_	_	_	2,461	2,461	0.31	0.04	_	2,480
Total	_	_	_	_	_	_	_	_	_	_	_	_	54,428	54,428	6.89	0.83	_	54,849
Daily, Winter (Max)	_	_	-	_	_	_		_	_	-	-	-	_	_	-	_	_	_
Single Family Housing	_	_	_	_	_	_	_	_	_	_	_	_	50,851	50,851	6.43	0.78	_	51,245
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	1,116	1,116	0.14	0.02	_	1,125
Regional Shopping Center	_	_		_	_	_	_	_	-	_	_	_	2,461	2,461	0.31	0.04	_	2,480
Total	_	_	_	_	_	_	_	_	_	_	_	_	54,428	54,428	6.89	0.83	_	54,849
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Single Family Housing	_	_	_	_	_	_	_	_	-	_	_	_	8,419	8,419	1.07	0.13	_	8,484
General Office Building	_	_	-	_	_	_	-	_	_	-	-	_	185	185	0.02	< 0.005	_	186
Regional Shopping Center	_	_	-	_	_	_	-	_	_	_	-	_	407	407	0.05	0.01	_	411
Total	_	_	_	_	_	_	_	_	_	_	_	_	9,011	9,011	1.14	0.14	_	9,081

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-
Single Family Housing	11.7	5.85	99.9	42.5	0.64	8.08	_	8.08	8.08	_	8.08	_	126,815	126,815	11.2	0.24	_	127,167
General Office Building	0.07	0.03	0.60	0.50	< 0.005	0.05	_	0.05	0.05	_	0.05	-	712	712	0.06	< 0.005	_	714
Regional Shopping Center	0.06	0.03	0.56	0.47	< 0.005	0.04	_	0.04	0.04	_	0.04	-	673	673	0.06	< 0.005	_	675
Total	11.8	5.91	101	43.5	0.64	8.17	_	8.17	8.17	_	8.17	_	128,200	128,200	11.3	0.24	_	128,556
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Single Family Housing	11.7	5.85	99.9	42.5	0.64	8.08	_	8.08	8.08	_	8.08	_	126,815	126,815	11.2	0.24	_	127,167
General Office Building	0.07	0.03	0.60	0.50	< 0.005	0.05	_	0.05	0.05	_	0.05	_	712	712	0.06	< 0.005	_	714
Regional Shopping Center	0.06	0.03	0.56	0.47	< 0.005	0.04	_	0.04	0.04	_	0.04	_	673	673	0.06	< 0.005	_	675
Total	11.8	5.91	101	43.5	0.64	8.17	_	8.17	8.17	_	8.17	_	128,200	128,200	11.3	0.24	_	128,556
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Single Family Housing	2.13	1.07	18.2	7.76	0.12	1.47	_	1.47	1.47	_	1.47	_	20,996	20,996	1.86	0.04	_	21,054
General Office Building	0.01	0.01	0.11	0.09	< 0.005	0.01	_	0.01	0.01	_	0.01	_	118	118	0.01	< 0.005	_	118

Regional Shopping Center		0.01	0.10	0.09	< 0.005	0.01	_	0.01	0.01	_	0.01	_	111	111	0.01	< 0.005	_	112
Total	2.16	1.08	18.4	7.94	0.12	1.49	_	1.49	1.49	_	1.49	_	21,225	21,225	1.88	0.04	_	21,284

4.3. Area Emissions by Source

4.3.2. Unmitigated

		(.,	. ,			,		· · · · · · · · · · · · · · · · · · ·		,	_				_		
Source	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Hearths	18.0	9.02	154	65.6	0.98	12.5	_	12.5	12.5	_	12.5	0.00	195,605	195,605	3.68	0.37	_	195,807
Consum er Products	_	440	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	35.1	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	57.1	54.0	5.57	608	0.03	0.22	_	0.22	0.30	_	0.30	_	1,644	1,644	0.07	0.15	_	1,691
Total	75.1	538	160	673	1.01	12.7	_	12.7	12.8	_	12.8	0.00	197,249	197,249	3.75	0.52	_	197,497
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Hearths	18.0	9.02	154	65.6	0.98	12.5	_	12.5	12.5	_	12.5	0.00	195,605	195,605	3.68	0.37	_	195,807
Consum er Products	_	440	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_

Architect ural	_	35.1	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	18.0	484	154	65.6	0.98	12.5	_	12.5	12.5	_	12.5	0.00	195,605	195,605	3.68	0.37	_	195,807
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Hearths	0.23	0.11	1.93	0.82	0.01	0.16	_	0.16	0.16	_	0.16	0.00	2,218	2,218	0.04	< 0.005	_	2,220
Consum er Products	_	80.3	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	6.40	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	7.14	6.75	0.70	76.0	< 0.005	0.03	_	0.03	0.04	_	0.04	_	186	186	0.01	0.02	_	192
Total	7.36	93.6	2.62	76.8	0.02	0.18	_	0.18	0.19	_	0.19	0.00	2,405	2,405	0.05	0.02	_	2,412

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Single Family Housing	_	_	_	_	_	_	_		_	_	_	742	9,145	9,888	77.3	1.95	_	12,400
General Office Building	_	_	_	_	_		_	_	_	_	_	29.9	75.8	106	3.07	0.07	_	204

Regional Shopping Center	_	_	_	_	_	_	_	_	_	_	_	49.8	126	176	5.12	0.12	_	341
Total	_	_	_	-	_	_	_	_	_	_	_	822	9,347	10,169	85.5	2.15	_	12,945
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Single Family Housing	_	_	_	_	_	_	_	_	_	_	_	742	9,145	9,888	77.3	1.95	_	12,400
General Office Building	_	_	_	_	_	_	_	_	_	_	_	29.9	75.8	106	3.07	0.07	_	204
Regional Shopping Center	_	_	_	_	_	_	_	_	_	_	_	49.8	126	176	5.12	0.12	_	341
Total	_	_	_	_	_	_	_	_	_	_	_	822	9,347	10,169	85.5	2.15	_	12,945
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Single Family Housing	_	_	_	_	_	_	_	_	_	_	_	123	1,514	1,637	12.8	0.32	_	2,053
General Office Building	_	_	_	_	_	_	_	_	_	_	_	4.94	12.5	17.5	0.51	0.01	_	33.8
Regional Shopping Center	_	_	_	_	_	_	_	_	_	_	_	8.24	20.9	29.2	0.85	0.02	_	56.4
Total	_	_	_	_	_	_	_	_	_	_	_	136	1,548	1,684	14.1	0.36	_	2,143

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	-	-	_	-	_	-	-	-	-	_	-	-	-	-	-	-
Single Family Housing	_	_	_	_	_	_	_	_	_	_	_	4,398	0.00	4,398	440	0.00	_	15,386
General Office Building	_	_	_	-	_	_	_	_	_	_	_	43.9	0.00	43.9	4.39	0.00	_	154
Regional Shopping Center		_	_	-	_	_	_	_	_	_	_	198	0.00	198	19.8	0.00	_	694
Total	_	_	_	_	_	_	_	_	_	_	_	4,640	0.00	4,640	464	0.00	_	16,234
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Single Family Housing	_	_		_	_	_	_	_	_	_	-	4,398	0.00	4,398	440	0.00	_	15,386
General Office Building	_	_	_	-	_	_	_	_	_	-	-	43.9	0.00	43.9	4.39	0.00	_	154
Regional Shopping Center	_	_	_	-	_	_	_	_	_	_	_	198	0.00	198	19.8	0.00	_	694
Total	_	_	_	_	_	_	_	_	_	_	_	4,640	0.00	4,640	464	0.00	_	16,234
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Single Family Housing	_	_	_	_	_	_	_	_	_	_	_	728	0.00	728	72.8	0.00	_	2,547
General Office Building	_	_	_	-	_	_	_	_	_	_	_	7.27	0.00	7.27	0.73	0.00	_	25.5

Regional Shopping Center		_	_	_	_	_	_	_	_	_	_	32.9	0.00	32.9	3.28	0.00	_	115
Total	_	_	_	_	_	_	_	_	_	_	_	768	0.00	768	76.8	0.00	_	2,688

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Single Family Housing	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	129	129
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.13	0.13
Regional Shopping Center		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.33	1.33
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	130	130
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Single Family Housing	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	129	129
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.13	0.13

Regional Shopping Center	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	1.33	1.33
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	130	130
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Single Family Housing	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	21.3	21.3
General Office Building	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.02	0.02
Regional Shopping Center	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	0.22	0.22
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	21.6	21.6

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

				, ,														
Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme nt Type	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_		_	_	_		_	_	_	_	_	_	_	_	_	_

Total	_	_	_	-	_	_	_	_	_	_	-	_	_	_	-	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetatio n	TOG	ROG	NOx							PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total		_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

O I I I G I I G		10 (1.07 0.0.	,	<i>y</i> ,, <i>y</i> .	101 GIII10	,	O OO (o, aa,	GGy,	,	a							
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

	TOG	ROG	NOx	со	SO2				PM2.5E		PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	171,227	162,666	162,666	62,497,963	1,283,409	1,220,117	1,220,117	445,342,783

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type Unmitigated (number)

Single Family Housing	_
Wood Fireplaces	0
Gas Fireplaces	9290
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	1032

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
40758997.5	13,586,333	657,501	219,167	_

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	71,171,688	261	0.0330	0.0040	395,697,443
General Office Building	1,562,251	261	0.0330	0.0040	2,222,049
Regional Shopping Center	3,444,029	261	0.0330	0.0040	2,099,424

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	387,339,759	1,915,112,778
General Office Building	15,581,384	0.00
Regional Shopping Center	25,974,789	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	2,738	0.00
General Office Building	81.5	0.00
Regional Shopping Center	368	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0

Regional Shopping Center	Stand-alone retail refrigerators and	R-134a	1,430	0.04	1.00	0.00	1.00
	freezers						

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

English Control of the Control of th	le de	land the second	D I D C (MADE II)	D T II (I (ANAD) (I)	A LILL CL CARADO (/)
Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/vr)
_qsipinoin iypo	[· aa)pa	110111001		2 and 1 10 at 11 par (1111121a, aa)	

5.17. User Defined

Equipment Type	Fuel Type
_	_

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type Vegetation Soil Type Initial Acres Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
rree Type	Number	Electricity Saved (kwn/year)	inatural Gas Saved (blu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	9.66	annual days of extreme heat
Extreme Precipitation	4.40	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A
Air Quality	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack	N/A	N/A	N/A	N/A

Air Quality	1	1	1	2
-------------	---	---	---	---

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollularization.	
Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	48.5
AQ-PM	80.9
AQ-DPM	91.5
Drinking Water	48.6
Lead Risk Housing	79.3
Pesticides	0.00
Toxic Releases	85.9
Traffic	87.4
Effect Indicators	
CleanUp Sites	82.1
Groundwater	64.5
Haz Waste Facilities/Generators	64.6
Impaired Water Bodies	58.7
Solid Waste	75.7

Sensitive Population	_
Asthma	58.2
Cardio-vascular	47.8
Low Birth Weights	31.1
Socioeconomic Factor Indicators	_
Education	81.9
Housing	90.9
Linguistic	88.3
Poverty	77.2
Unemployment	81.7

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	_
Above Poverty	41.46028487
Employed	19.02989863
Median HI	38.2137816
Education	_
Bachelor's or higher	45.52803798
High school enrollment	100
Preschool enrollment	21.73745669
Transportation	_
Auto Access	58.83485179
Active commuting	47.79930707
Social	_
2-parent households	65.35352239

Voting	1.93763634
Neighborhood	_
Alcohol availability	26.08751444
Park access	12.22892339
Retail density	87.29629154
Supermarket access	10.21429488
Tree canopy	19.47901963
Housing	
Homeownership	7.943025792
Housing habitability	24.16271012
Low-inc homeowner severe housing cost burden	91.91582189
Low-inc renter severe housing cost burden	57.48748877
Uncrowded housing	9.277556782
Health Outcomes	_
Insured adults	26.25433081
Arthritis	91.8
Asthma ER Admissions	33.8
High Blood Pressure	83.5
Cancer (excluding skin)	89.7
Asthma	51.9
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	71.2
Diagnosed Diabetes	60.0
Life Expectancy at Birth	61.7
Cognitively Disabled	41.3
Physically Disabled	30.9
Heart Attack ER Admissions	45.5

Mental Health Not Good	39.8
Chronic Kidney Disease	73.0
Obesity	61.1
Pedestrian Injuries	39.8
Physical Health Not Good	46.9
Stroke	80.6
Health Risk Behaviors	_
Binge Drinking	40.3
Current Smoker	40.7
No Leisure Time for Physical Activity	33.6
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	6.4
Elderly	94.7
English Speaking	9.4
Foreign-born	75.6
Outdoor Workers	33.5
Climate Change Adaptive Capacity	_
Impervious Surface Cover	18.2
Traffic Density	88.4
Traffic Access	63.7
Other Indices	_
Hardship	72.4
Other Decision Support	_
2016 Voting	21.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	92.0
Healthy Places Index Score for Project Location (b)	26.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Hearths	Per SCAQMD Rule 445 no wood burning devices Wood fireplaces added to gas fireplaces
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.
Operations: Architectural Coatings	SCAQMD Rule 1113

b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

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APPENDIX 3.3:

SCAQMD AMICUS BRIEF



IN THE SUPREME COURT OF C ALIFORNIA

SIERRA CLUB, REVIVE THE SAN JOAQUIN, and LEAGUE OF WOMEN VOTERS OF FRESNO,

Plaintiffs and Appellants,

v.

SHAKEME COOK!

COUNTY OF FRESNO,

Defendant and Respondent,

and,

APR 1 3 2015

Frank A. McGure Clerk

Jepuly

FRIANT RANCH, L.P.,

Real Party in Interest and Respondent.

After a Published Decision by the Court of Appeal, filed May 27, 2014 Fifth Appellate District Case No. F066798

Appeal from the Superior Court of California, County of Fresno Case No. 11CECG00726 Honorable Rosendo A. Pena, Jr.

APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF AMICUS CURIAE IN SUPPORT OF NEITHER PARTY AND [PROPOSED] BRIEF OF AMICUS CURIAE

Kurt R. Wiese, General Counsel (SBN 127251)
*Barbara Baird, Chief Deputy Counsel (SBN 81507)
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765
Telephone: 900, 306, 2302; Faccimile: 900, 306, 2061

Telephone: 909-396-2302; Facsimile: 909-396-2961

Email: bbaird@aqmd.gov

Counsel for [Proposed] Amicus Curiae,

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

BECEIVED

APR = 6 2015

CLERK SUPREME COURT

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Health & Saf. Code § 41508 5 Health & Saf. Code § 42300, et seq 5 Health & Saf. Code § 44320 5 Health & Saf. Code § 44322 5 Health & Saf. Code § 44360 5	
Pub. Resources Code § 20180.3 27 Pub. Resources Code § 21061 19 Pub. Resources Code § 21061.1 16	

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Rules Other Association of Environmental Professionals, 2015 CEQA Statute and Guidelines (2015) (Appendix G, "Environmental Checklist CARB, Health Impacts Analysis: PM Premature Death Relationship......14 CARB, Health Impacts Analysis: CARB, Resolution 98-35, Aug. 27, 19988 SCAQMD, Final Subsequent Mitigated Negative Declaration for: Warren E&P, Inc. WTU Central Facility, New Equipment Project (certified July 19, 2011) 14-15 SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System, 12 SCAQMD Governing Board Agenda, April 3, 2015, SCAQMD, Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and U.S. EPA, Guideline on Ozone Monitoring Site Selection (Aug. 1998) EPA-454/R-98-002 § 5.1.211 U.S. EPA, Health Effects of Ozone in the General Population, Figure 9,11

U.S. EPA, National Ambient Air Quality Standards (NAAQS).......4

U.S. EPA, Particulate Matter (PM)......4

TO THE HONORABLE CHIEF JUSTICE AND JUSTICES OF THE SUPREME COURT:

APPLICATION FOR LEAVE TO FILE AMICUS CURIAE BRIEF

Pursuant to Rule 8.520(f) of the California Rules of Court, the South Coast Air Quality Management District (SCAQMD) respectfully requests leave to file the attached *amicus curiae* brief. Because SCAQMD's position differs from that of either party, we request leave to submit this amicus brief in support of neither party.

HOW THIS BRIEF WILL ASSIST THE COURT

SCAQMD's proposed amicus brief takes a position on two of the issues in this case. In both instances, its position differs from that of either party. The issues are:

- 1) Does the California Environmental Quality Act (CEQA) require an environmental impact report (EIR) to correlate a project's air pollution emissions with specific levels of health impacts?
- 2) What is the proper standard of review for determining whether an EIR provides sufficient information on the health impacts caused by a project's emission of air pollutants?

This brief will assist the Court by discussing the practical realities of correlating identified air quality impacts with specific health outcomes. In short, CEQA requires agencies to provide detailed information about a project's air quality impacts that is sufficient for the public and decisionmakers to adequately evaluate the project and meaningfully understand its impacts. However, the level of analysis is governed by a rule of reason; CEQA only requires agencies to conduct analysis if it is reasonably feasible to do so.

With regard to health-related air quality impacts, an analysis that correlates a project's air pollution emissions with specific levels of health impacts will be feasible in some cases but not others. Whether it is feasible depends on a variety of factors, including the nature of the project and the nature of the analysis under consideration. The feasibility of analysis may also change over time as air districts and others develop new tools for measuring projects' air quality related health impacts. Because SCAQMD has among the most sophisticated air quality modeling and health impact evaluation capability of any of the air districts in the State, it is uniquely situated to express an opinion on the extent to which the Court should hold that CEQA requires lead agencies to correlate air quality impacts with specific health outcomes.

SCAQMD can also offer a unique perspective on the question of the appropriate standard of review. SCAQMD submits that the proper standard of review for determining whether an EIR is sufficient as an informational document is more nuanced than argued by either party. In our view, this is a mixed question of fact and law. It includes determining whether additional analysis is feasible, which is primarily a factual question that should be reviewed under the substantial evidence standard. However, it also involves determining whether the omission of a particular analysis renders an EIR insufficient to serve CEQA's purpose as a meaningful, informational document. If a lead agency has not determined that a requested analysis is infeasible, it is the court's role to determine whether the EIR nevertheless meets CEQA's purposes, and courts should not defer to the lead agency's conclusions regarding the legal sufficiency of an EIR's analysis. The ultimate question of whether an EIR's analysis is "sufficient" to serve CEQA's informational purposes is predominately a question of law that courts should review de novo.

This brief will explain the rationale for these arguments and may assist the Court in reaching a conclusion that accords proper respect to a lead agency's factual conclusions while maintaining judicial authority over the ultimate question of what level of analysis CEQA requires.

STATEMENT OF INTEREST OF AMICUS CURIAE

The SCAQMD is the regional agency primarily responsible for air pollution control in the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of the Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410; Cal. Code Regs., tit. 17, § 60104.) The SCAQMD participates in the CEQA process in several ways. Sometimes it acts as a lead agency that prepares CEQA documents for projects. Other times it acts as a responsible agency when it has permit authority over some part of a project that is undergoing CEQA review by a different lead agency. Finally, SCAQMD also acts as a commenting agency for CEQA documents that it receives because it is a public agency with jurisdiction by law over natural resources affected by the project.

In all of these capacities, SCAQMD will be affected by the decision in this case. SCAQMD sometimes submits comments requesting that a lead agency perform an additional type of air quality or health impacts analysis. On the other hand, SCAQMD sometimes determines that a particular type of health impact analysis is not feasible or would not produce reliable and informative results. Thus, SCAQMD will be affected by the Court's resolution of the extent to which CEQA requires EIRs to correlate emissions and health impacts, and its resolution of the proper standard of review.

CERTIFICATION REGARDING AUTHORSHIP AND FUNDING

No party or counsel in the pending case authored the proposed amicus curiae brief in whole or in part, or made any monetary contribution intended to fund the preparation or submission of the brief. No person or entity other than the proposed *Amicus Curiae* made any monetary contribution intended to fund the preparation or submission of the brief.

Respectfully submitted,

DATED: April 3, 2015

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT KURT R. WIESE, GENERAL COUNSEL BARBARA BAIRD, CHIEF DEPUTY COUNSEL

Barbara I

Attorneys for [proposed] Amicus Curiae SOUTH COAST AIR QUALITY MANAGEMENT DISTICT

BRIEF OF AMICUS CURIAE

SUMMARY OF ARGUMENT

The South Coast Air Quality Management District (SCAQMD) submits that this Court should not try to establish a hard-and-fast rule concerning whether lead agencies are required to correlate emissions of air pollutants with specific health consequences in their environmental impact reports (EIR). The level of detail required in EIRs is governed by a few, core CEQA (California Environmental Quality Act) principles. As this Court has stated, "[a]n EIR must include detail sufficient to enable those who did not participate in its preparation to understand and to consider meaningfully the issues raised by the proposed project." (Laurel Heights Improvement Assn. v. Regents of the Univ of Cal. (1988) 47 Cal.3d 376, 405 ["Laurel Heights 1"]) Accordingly, "an agency must use its best efforts to find out and disclose all that it reasonably can." (Vineyard Area Citizens for Responsible Growth, Inc. v. City of Rancho Cordova (2007) 40 Cal.4th 412, 428 (quoting CEOA Guidelines § 15144)¹.). However, "[a]nalysis of environmental effects need not be exhaustive, but will be judged in light of what is reasonably feasible." (Association of Irritated Residents v. County of Madera (2003) 107 Cal. App. 4th 1383, 1390; CEQA Guidelines §§ 15151, 15204(a).)

With regard to analysis of air quality related health impacts, EIRs must generally quantify a project's pollutant emissions, but in some cases it is not feasible to correlate these emissions to specific, quantifiable health impacts (e.g., premature mortality; hospital admissions). In such cases, a general description of the adverse health impacts resulting from the pollutants at issue may be sufficient. In other cases, due to the magnitude

¹ The CEQA Guidelines are found at Cal. Code Regs., tit. 14 §§ 15000, et seq.

or nature of the pollution emissions, as well as the specificity of the project involved, it may be feasible to quantify health impacts. Or there may be a less exacting, but still meaningful analysis of health impacts that can feasibly be performed. In these instances, agencies should disclose those impacts.

SCAQMD also submits that whether or not an EIR complies with CEQA's informational mandates by providing sufficient, feasible analysis is a mixed question of fact and law. Pertinent here, the question of whether an EIR's discussion of health impacts from air pollution is sufficient to allow the public to understand and consider meaningfully the issues involves two inquiries: (1) Is it feasible to provide the information or analysis that a commenter is requesting or a petitioner is arguing should be required?; and (2) Even if it is feasible, is the agency relying on other policy or legal considerations to justify not preparing the requested analysis? The first question of whether an analysis is feasible is primarily a question of fact that should be judged by the substantial evidence standard. The second inquiry involves evaluating CEQA's information disclosure purposes against the asserted reasons to not perform the requested analysis. For example, an agency might believe that its EIR meets CEQA's informational disclosure standards even without a particular analysis, and therefore choose not to conduct that analysis. SCAQMD submits that this is more of a legal question, which should be reviewed de novo as a question of law.

ARGUMENT

I. RELEVANT FACTUAL AND LEGAL FRAMEWORK.

A. Air Quality Regulatory Background

The South Coast Air Quality Management District (SCAQMD) is one of the local and regional air pollution control districts and air quality management districts in California. The SCAQMD is the regional air pollution agency for the South Coast Air Basin, which consists of all of Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties. (Health & Saf. Code § 40410, 17 Cal. Code Reg. § 60104.) The SCAQMD also includes the Coachella Valley in Riverside County (Palm Springs area to the Salton Sea). (SCAQMD, *Final 2012 AQMP (Feb. 2013)*, http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-mgt-plan/final-2012 AQMP (Feb. 2013), http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "Executive Summary" hyperlink p. ES-1 (last visited Apr. 1, 2015).)

Under California law, the local and regional districts are primarily responsible for controlling air pollution from all sources except motor vehicles. (Health & Saf. Code § 40000.) The California Air Resources Board (CARB), part of the California Environmental Protection Agency, is primarily responsible for controlling pollution from motor vehicles. (*Id.*) The air districts must adopt rules to achieve and maintain the state and federal ambient air quality standards within their jurisdictions. (Health & Saf. Code § 40001.)

The federal Clean Air Act (CAA) requires the United States Environmental Protection Agency (EPA) to identify pollutants that are widely distributed and pose a threat to human health, developing a so-called "criteria" document. (42 U.S.C. § 7408; CAA § 108.) These pollutants are frequently called "criteria pollutants." EPA must then establish "national ambient air quality standards" at levels "requisite to protect public health",

allowing "an adequate margin of safety." (42 U.S.C. § 7409; CAA § 109.) EPA has set standards for six identified pollutants: ozone, nitrogen dioxide, sulfur dioxide, carbon monoxide, particulate matter (PM), and lead. (U.S. EPA, National Ambient Air Quality Standards (NAAQS), http://www.epa.gov/air/criteria.html (last updated Oct. 21, 2014).)²

Under the Clean Air Act, EPA sets emission standards for motor vehicles and "nonroad engines" (mobile farm and construction equipment, marine vessels, locomotives, aircraft, etc.). (42 U.S.C. §§ 7521, 7547; CAA §§ 202, 213.) California is the only state allowed to establish emission standards for motor vehicles and most nonroad sources; however, it may only do so with EPA's approval. (42 U.S.C. §§ 7543(b), 7543(e); CAA §§ 209(b), 209(c).) Sources such as manufacturing facilities, power plants and refineries that are not mobile are often referred to as "stationary sources." The Clean Air Act charges state and local agencies with the primary responsibility to attain the national ambient air quality standards. (42 U.S.C. § 7401(a)(3); CAA § 101(a)(3).) Each state must adopt and implement a plan including enforceable measures to achieve and maintain the national ambient air quality standards. (42 U.S.C. § 7410; CAA § 110.) The SCAQMD and CARB jointly prepare portion of the plan for the South Coast Air Basin and submit it for approval by EPA. (Health & Saf. Code §§ 40460, et seq.)

The Clean Air Act also requires state and local agencies to adopt a permit program requiring, among other things, that new or modified "major" stationary sources use technology to achieve the "lowest achievable emission rate," and to control minor stationary sources as

² Particulate matter (PM) is further divided into two categories: fine particulate or PM_{2.5} (particles with a diameter of less than or equal to 2.5 microns) and coarse particulate (PM₁₀) (particles with a diameter of 10 microns or less). (U.S. EPA, Particulate Matter (PM), http://www.epa.gov/airquality/particlepollution/ (last visited Apr. 1, 2015).)

needed to help attain the standards. (42 U.S.C. §§ 7502(c)(5), 7503(a)(2), 7410(a)(2)(C); CAA §§ 172(c)(5), 173(a)(2), 110(a)(2)(C).) The air districts implement these permit programs in California. (Health & Saf. Code §§ 42300, et seq.)

The Clean Air Act also sets out a regulatory structure for over 100 so-called "hazardous air pollutants" calling for EPA to establish "maximum achievable control technology" (MACT) for sources of these pollutants. (42 U.S.C. § 7412(d)(2); CAA § 112(d)(2).) California refers to these pollutants as "toxic air contaminants" (TACs) which are subject to two state-required programs. The first program requires "air toxics control measures" for specific categories of sources. (Health & Saf. Code § 39666.) The other program requires larger stationary sources and sources identified by air districts to prepare "health risk assessments" for impacts of toxic air contaminants. (Health & Saf. Code §§ 44320(b), 44322, 44360.) If the health risk exceeds levels identified by the district as "significant," the facility must implement a "risk reduction plan" to bring its risk levels below "significant" levels. Air districts may adopt additional more stringent requirements than those required by state law, including requirements for toxic air contaminants. (Health & Saf. Code § 41508; Western Oil & Gas Assn. v. Monterey Bay Unified APCD (1989) 49 Cal.3d 408, 414.) For example, SCAQMD has adopted a rule requiring new or modified sources to keep their risks below specified levels and use best available control technology (BACT) for toxics. (SCAQMD, Rule 1401-New Source Review of Toxic Air Contaminants, http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulation-

B. The SCAQMD's Role Under CEQA

The California Environmental Quality Act (CEQA) requires public agencies to perform an environmental review and appropriate analysis for projects that they implement or approve. (Pub. Resources Code § 21080(a).) The agency with primary approval authority for a particular project is generally the "lead agency" that prepares the appropriate CEQA document. (CEQA Guidelines §§ 15050, 15051.) Other agencies having a subsequent approval authority over all or part of a project are called "responsible" agencies that must determine whether the CEQA document is adequate for their use. (CEQA Guidelines §§ 15096(c), 15381.) Lead agencies must also consult with and circulate their environmental impact reports to "trustee agencies" and agencies "with jurisdiction by law" including "authority over resources which may be affected by the project." (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines §§ 15086(a)(3), 15073(c).) The SCAQMD has a role in all these aspects of CEQA.

Fulfilling its responsibilities to implement its air quality plan and adopt rules to attain the national ambient air quality standards, SCAQMD adopts a dozen or more rules each year to require pollution reductions from a wide variety of sources. The SCAQMD staff evaluates each rule for any adverse environmental impact and prepares the appropriate CEQA document. Although most rules reduce air emissions, they may have secondary environmental impacts such as use of water or energy or disposal of waste—e.g., spent catalyst from control equipment.³

³ The SCAQMD's CEQA program for its rules is a "Certified Regulatory Program" under which it prepares a "functionally equivalent" document in lieu of a negative declaration or EIR. (Pub. Resources Code § 21080.5, CEQA Guidelines § 15251(l).)

The SCAQMD also approves a large number of permits every year to construct new, modified, or replacement facilities that emit regulated air pollutants. The majority of these air pollutant sources have already been included in an earlier CEQA evaluation for a larger project, are currently being evaluated by a local government as lead agency, or qualify for an exemption. However, the SCAQMD sometimes acts as lead agency for major projects where the local government does not have a discretionary approval. In such cases, SCAQMD prepares and certifies a negative declaration or environmental impact report (EIR) as appropriate.⁴ SCAQMD evaluates perhaps a dozen such permit projects under CEQA each year. SCAQMD is often also a "responsible agency" for many projects since it must issue a permit for part of the projects (e.g., a boiler used to provide heat in a commercial building). For permit projects evaluated by another lead agency under CEQA, SCAQMD has the right to determine that the CEQA document is inadequate for its purposes as a responsible agency, but it may not do so because its permit program already requires all permitted sources to use the best available air pollution control technology. (SCAQMD, Rule 1303(a)(1) – Requirements, http://www.aqmd.gov/home/regulations/rules/scaqmd-rule-book/regulationxiii; then follow "Rule 1303" hyperlink (last visited Apr. 1, 2015).)

Finally, SCAQMD receives as many as 60 or more CEQA documents each month (around 500 per year) in its role as commenting agency or an agency with "jurisdiction by law" over air quality—a natural resource affected by the project. (Pub. Resources Code §§ 21104(a), 21153; CEQA Guidelines § 15366(a)(3).) The SCAQMD staff provides comments on as many as 25 or 30 such documents each month.

⁴ The SCAQMD's permit projects are not included in its Certified Regulatory Program, and are evaluated under the traditional local government CEQA analysis. (Pub. Resources Code §§ 21150-21154.)

(SCAQMD Governing Board Agenda, Apr. 3, 2015, Agenda Item 16, Attachment A, http://www.aqmd.gov/home/library/meeting-agendas-minutes/agenda?title=governing-board-meeting-agenda-april-3-2015; then follow "16. Lead Agency Projects and Environmental Documents Received by SCAQMD" hyperlink (last visited Apr. 1, 2015).) Of course, SCAQMD focuses its commenting efforts on the more significant projects.

Typically, SCAQMD comments on the adequacy of air quality analysis, appropriateness of assumptions and methodology, and completeness of the recommended air quality mitigation measures. Staff may comment on the need to prepare a health risk assessment detailing the projected cancer and noncancer risks from toxic air contaminants resulting from the project, particularly the impacts of diesel particulate matter, which CARB has identified as a toxic air contaminant based on its carcinogenic effects. (California Air Resources Board, Resolution 98-35, Aug. 27, 1998, http://www.arb.ca.gov/regact/diesltac/diesltac.htm; then follow Resolution 98-35 hyperlink (last visited Apr. 1, 2015).) Because SCAQMD already requires new or modified stationary sources of toxic air contaminants to use the best available control technology for toxics and to keep their risks below specified levels, (SCAQMD Rule 1401, supra, note 15), the greatest opportunity to further mitigate toxic impacts through the CEQA process is by reducing emissions—particularly diesel emissions—from vehicles.

II. THIS COURT SHOULD NOT SET A HARD-AND-FAST RULE CONCERNING THE EXTENT TO WHICH AN EIR MUST CORRELATE A PROJECT'S EMISSION OF POLLUTANTS WITH RESULTING HEALTH IMPACTS.

Numerous cases hold that courts do not review the correctness of an EIR's conclusions but rather its sufficiency as an informative document. (Laurel Heights 1, supra, 47 Cal.3d at p. 392; Citizens of Goleta Valley v.

Bd. of Supervisors (1990) 52 Cal.3d 553, 569; Bakersfield Citizens for Local Control v. City of Bakersfield (2004) 124 Cal.App.4th 1184, 1197.)

As stated by the Court of Appeal in this case, where an EIR has addressed a topic, but the petitioner claims that the information provided about that topic is insufficient, courts must "draw[] a line that divides *sufficient* discussions from those that are *insufficient*." (*Sierra Club v. County of Fresno* (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) The Court of Appeal readily admitted that "[t]he terms themselves – sufficient and insufficient – provide little, if any, guidance as to where the line should be drawn. They are simply labels applied once the court has completed its analysis." (*Id.*)

The CEQA Guidelines, however, provide guidance regarding what constitutes a sufficient discussion of impacts. Section 15151 states that "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." Case law reflects this: "Analysis of environmental effects need not be exhaustive, but will be judged in light of what was reasonably feasible." (Association of Irritated Residents v. County of Madera, supra, 107 Cal.App.4th at p. 1390; see also CEQA Guidelines § 15204(a).)

Applying this test, this Court cannot realistically establish a hardand-fast rule that an analysis correlating air pollution impacts of a project to quantified resulting health impacts is always required, or indeed that it is never required. Simply put, in some cases such an analysis will be "feasible"; in some cases it will not.

For example, air pollution control districts often require a proposed new source of toxic air contaminants to prepare a "health risk assessment" before issuing a permit to construct. District rules often limit the allowable cancer risk the new source may cause to the "maximally exposed individual" (worker and residence exposures). (See, e.g., SCAQMD Rule 1401(c)(8); 1401(d)(1), supra note 15.) In order to perform this analysis, it

is necessary to have data regarding the sources and types of air toxic contaminants, location of emission points, velocity of emissions, the meteorology and topography of the area, and the location of receptors (worker and residence). (SCAQMD, Supplemental Guidelines for Preparing Risk Assessments for the Air Toxics "Hot Spots" Information and Assessment Act (AB2588), pp. 11-16; (last visited Apr. 1, 2015) http://www.aqmd.gov/home/library/documents-support-material; "Guidelines" hyperlink; AB2588; then follow AB2588 Risk Assessment Guidelines hyperlink.)

Thus, it is feasible to determine the health risk posed by a new gas station locating at an intersection in a mixed use area, where receptor locations are known. On the other hand, it may not be feasible to perform a health risk assessment for airborne toxics that will be emitted by a generic industrial building that was built on "speculation" (i.e., without knowing the future tenant(s)). Even where a health risk assessment can be prepared, however, the resulting maximum health risk value is only a calculation of risk—it does not necessarily mean anyone will contract cancer as a result of the project.

In order to find the "cancer burden" or expected additional cases of cancer resulting from the project, it is also necessary to know the numbers and location of individuals living within the "zone of impact" of the project: i.e., those living in areas where the projected cancer risk from the project exceeds one in a million. (SCAQMD, Health Risk Assessment Summary form, http://www.aqmd.gov/home/forms; filter by "AB2588" category; then "Health Risk Assessment" hyperlink (last visited Apr. 1, 2015).) The affected population is divided into bands of those exposed to at least 1 in a million risk, those exposed to at least 10 in a million risk, etc. up to those exposed at the highest levels. (*Id.*) This data allows agencies to calculate an approximate number of additional cancer cases expected from

the project. However, it is not possible to predict which particular individuals will be affected.

For the so-called criteria pollutants⁵, such as ozone, it may be more difficult to quantify health impacts. Ozone is formed in the atmosphere from the chemical reaction of the nitrogen oxides (NO_x) and volatile organic compounds (VOC) in the presence of sunlight. (U.S. EPA, Ground Level Ozone, http://www.epa.gov/airquality/ozonepollution/ (last updated Mar. 25, 2015).) It takes time and the influence of meteorological conditions for these reactions to occur, so ozone may be formed at a distance downwind from the sources. (U.S. EPA, *Guideline on Ozone Monitoring Site Selection* (Aug. 1998) EPA-454/R-98-002 § 5.1.2, http://www.epa.gov/ttnamti1/archive/cpreldoc.html (last visited Apr. 1, 2015).) NO_x and VOC are known as "precursors" of ozone.

Scientifically, health effects from ozone are correlated with increases in the ambient level of ozone in the air a person breathes. (U.S. EPA, Health Effects of Ozone in the General Population, Figure 9, http://www.epa.gov/apti/ozonehealth/population.html#levels (last visited Apr. 1, 2015).) However, it takes a large amount of additional precursor emissions to cause a modeled increase in ambient ozone levels over an entire region. For example, the SCAQMD's 2012 AQMP showed that reducing NO_x by 432 tons per day (157,680 tons/year) and reducing VOC by 187 tons per day (68,255 tons/year) would reduce ozone levels at the SCAQMD's monitor site with the highest levels by only 9 parts per billion. (South Coast Air Quality Management District, Final 2012 AQMP (February 2013), http://www.aqmd.gov/home/library/clean-air-plans/air-quality-mgt-plan/final-2012-air-quality-management-plan; then follow "Appendix V: Modeling & Attainment Demonstrations" hyperlink,

⁵ See discussion of types of pollutants, supra, Part I.A.

pp. v-4-2, v-7-4, v-7-24.) SCAQMD staff does not currently know of a way to accurately quantify ozone-related health impacts caused by NO_x or VOC emissions from relatively small projects.

On the other hand, this type of analysis may be feasible for projects on a regional scale with very high emissions of NO_x and VOCs, where impacts are regional. For example, in 2011 the SCAQMD performed a health impact analysis in its CEQA document for proposed Rule 1315, which authorized various newly-permitted sources to use offsets from the districts "internal bank" of emission reductions. This CEQA analysis accounted for essentially all the increases in emissions due to new or modified sources in the District between 2010 and 2030.6 The SCAQMD was able to correlate this very large emissions increase (e.g., 6,620 pounds per day NO_x (1,208 tons per year), 89,180 pounds per day VOC (16,275 tons per year)) to expected health outcomes from ozone and particulate matter (e.g., 20 premature deaths per year and 89,947 school absences in the year 2030 due to ozone). (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System (see hyperlink in fn 6) at p. 4.1-35, Table 4.1-29.)

⁶ (SCAQMD Governing Board Agenda, February 4, 2011, Agenda Item 26, Attachment G, Assessment for: Re-adoption of Proposed Rule 1315 – Federal New Source Review Tracking System, Vol. 1, p.4.0-6, http://www.aqmd.gov/home/library/meeting-agenda-february-4-2011; the follow "26. Adopt Proposed Rule 1315 – Federal New Source Review Tracking System" (last visited April 1, 2015).)

⁷ The SCAQMD was able to establish the location of future NO_x and VOC emissions by assuming that new projects would be built in the same locations and proportions as existing stationary sources. This CEQA document was upheld by the Los Angeles County Superior Court in *Natural Res. Def. Council v SCAQMD*, Los Angeles Superior Court No. BS110792).

However, a project emitting only 10 tons per year of NO_x or VOC is small enough that its regional impact on ambient ozone levels may not be detected in the regional air quality models that are currently used to determine ozone levels. Thus, in this case it would not be feasible to directly correlate project emissions of VOC or NO_x with specific health impacts from ozone. This is in part because ozone formation is not linearly related to emissions. Ozone impacts vary depending on the location of the emissions, the location of other precursor emissions, meteorology and seasonal impacts, and because ozone is formed some time later and downwind from the actual emission. (EPA Guideline on Ozone Monitoring Site Selection (Aug. 1998) EPA-454/R-98-002, § 5.1.2; https://www.epa.gov/ttnamti1/archive/cpreldoc.html; then search "Guideline on Ozone Monitoring Site Selection" click on pdf) (last viewed Apr. 1, 2015).)

SCAQMD has set its CEQA "significance" threshold for NO_x and VOC at 10 tons per year (expressed as 55 lb/day). (SCAQMD, *Air Quality Analysis Handbook*, http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook; then follow "SCAQMD Air Quality Significance Thresholds" hyperlink (last visited Apr. 1, 2015).) This is because the federal Clean Air Act defines a "major" stationary source for "extreme" ozone nonattainment areas such as SCAQMD as one emitting 10 tons/year. (42 U.S.C. §§ 7511a(e), 7511a(f); CAA §§ 182(e), 182(f).) Under the Clean Air Act, such sources are subject to enhanced control requirements (42 U.S.C. §§ 7502(c)(5), 7503; CAA §§ 172(c)(5), 173), so SCAQMD decided this was an appropriate threshold for making a CEQA "significance" finding and requiring feasible mitigation. Essentially, SCAQMD takes the position that a source that emits 10 tons/year of NO_x or VOC would contribute cumulatively to ozone formation. Therefore, lead agencies that use SCAQMD's thresholds of significance may determine

that many projects have "significant" air quality impacts and must apply all feasible mitigation measures, yet will not be able to precisely correlate the project to quantifiable health impacts, unless the emissions are sufficiently high to use a regional modeling program.

In the case of particulate matter $(PM_{2.5})^8$, another "criteria" pollutant, SCAQMD staff is aware of two possible methods of analysis. SCAQMD used regional modeling to predict expected health impacts from its proposed Rule 1315, as mentioned above. Also, the California Air Resources Board (CARB) has developed a methodology that can predict expected mortality (premature deaths) from large amounts of PM_{2.5} (California Air Resources Board, Health Impacts Analysis: PM Premature Death Relationship, http://www.arb.ca.gov/research/health/pm-mort/pmmort arch.htm (last reviewed Jan. 19, 2012).) SCAQMD used the CARB methodology to predict impacts from three very large power plants (e.g., 731-1837 lbs/day). (Final Environmental Assessment for Rule 1315, supra, pp 4.0-12, 4.1-13, 4.1-37 (e.g., 125 premature deaths in the entire SCAQMD in 2030), 4.1-39 (0.05 to 1.77 annual premature deaths from power plants.) Again, this project involved large amounts of additional PM_{2.5} in the District, up to 2.82 tons/day (5,650 lbs/day of PM_{2.5}, or, or 1029 tons/year. (*Id.* at table 4.1-4, p. 4.1-10.)

However, the primary author of the CARB methodology has reported that this PM_{2.5} health impact methodology is not suited for small projects and may yield unreliable results due to various uncertainties. ⁹ (SCAQMD, *Final Subsequent Mitigated Negative Declaration for:Warren*

⁸ SCAQMD has not attained the latest annual or 24-hour national ambient air quality standards for "PM_{2.5}" or particulate matter less than 2.5 microns in diameter.

⁹ Among these uncertainties are the representativeness of the population used in the methodology, and the specific source of PM and the corresponding health impacts. (*Id.* at p. 2-24.)

E&P, Inc. WTU Central Facility, New Equipment Project (certified July 19, 2011), https://www.aqmd.gov/home/library/documents-support-material/lead-agency-permit-projects/permit-project-documents---year-2011; then follow "Final Subsequent Mitigated Negative Declaration for Warren E&P Inc. WTU Central Facility, New Equipment Project" hyperlink, pp. 2-22, 2-23 (last visited Apr. 1, 2015).) Therefore, when SCAQMD prepared a CEQA document for the expansion of an existing oil production facility, with very small PM_{2.5} increases (3.8 lb/day) and a very small affected population, staff elected not to use the CARB methodology for using estimated PM_{2.5} emissions to derive a projected premature mortality number and explained why it would be inappropriate to do so. (Id. at pp 2-22 to 2-24.) SCAQMD staff concluded that use of this methodology for such a small source could result in unreliable findings and would not provide meaningful information. (Id. at pp. 2-23, 2-25.) This CEQA document was not challenged in court.

In the above case, while it may have been technically possible to plug the data into the methodology, the results would not have been reliable or meaningful. SCAQMD believes that an agency should not be required to perform analyses that do not produce reliable or meaningful results. This Court has already held that an agency may decline to use even the "normal" "existing conditions" CEQA baseline where to do so would be misleading or without informational value. (*Neighbors for Smart Rail v. Exposition Metro Line* (2013) 57 Cal.4th 439, 448, 457.) The same should be true for a decision that a particular study or analysis would not provide reliable or meaningful results. ¹⁰

¹⁰ Whether a particular study would result in "informational value" is a part of deciding whether it is "feasible." CEQA defines "feasible" as "capable of being accomplished in a successful manner within a reasonable period of time, taking into account economic, environmental, social, and

Therefore, it is not possible to set a hard-and-fast rule on whether a correlation of air quality impacts with specific quantifiable health impacts is required in all cases. Instead, the result turns on whether such an analysis is reasonably feasible in the particular case. Moreover, what is reasonably feasible may change over time as scientists and regulatory agencies continually seek to improve their ability to predict health impacts. For example, CARB staff has been directed by its Governing Board to reassess and improve the methodology for estimating premature deaths. (California Air Resources Board, *Health Impacts Analysis: PM Mortality Relationship*, http://www.arb.ca.gov/research/health/pm-mort/pm-mort.htm (last reviewed Dec. 29, 2010).) This factor also counsels against setting any hard-and-fast rule in this case.

III. THE QUESTION OF WHETHER AN EIR CONTAINS SUFFICIENT ANALYSIS TO MEET CEQA'S REQUIREMENTS IS A MIXED QUESTION OF FACT AND LAW GOVERNED BY TWO DIFFERENT STANDARDS OF REVIEW.

A. Standard of Review for Feasibility Determination and Sufficiency as an Informative Document

A second issue in this case is whether courts should review an EIR's informational sufficiency under the "substantial evidence" test as argued by Friant Ranch or the "independent judgment" test as argued by Sierra Club.

technological factors." (Pub. Resources Code § 21061.1.) A study cannot be "accomplished in a *successful* manner" if it produces unreliable or misleading results.

In this case, the lead agency did not have an opportunity to determine whether the requested analysis was feasible because the comment was non-specific. Therefore, SCAQMD suggests that this Court, after resolving the legal issues in the case, direct the Court of Appeal to remand the case to the lead agency for a determination of whether the requested analysis is feasible. Because Fresno County, the lead agency, did not seek review in this Court, it seems likely that the County has concluded that at least some level of correlation of air pollution with health impacts is feasible.

As this Court has explained, "a reviewing court must adjust its scrutiny to the nature of the alleged defect, depending on whether the claim is predominantly one of improper procedure or a dispute over the facts."

(Vineyard Area Citizens v. City of Rancho Cordova, supra, 40 Cal.4th at 435.) For questions regarding compliance with proper procedure or other legal questions, courts review an agency's action de novo under the "independent judgment" test. (Id.) On the other hand, courts review factual disputes only for substantial evidence, thereby "accord[ing] greater deference to the agency's substantive factual conclusions." (Id.)

Here, Friant Ranch and Sierra Club agree that the case involves the question of whether an EIR includes sufficient information regarding a project's impacts. However, they disagree on the proper standard of review for answering this question: Sierra Club contends that courts use the independent judgment standard to determine whether an EIR's analysis is sufficient to meet CEQA's informational purposes, ¹² while Friant Ranch contends that the substantial evidence standard applies to this question.

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¹² Sierra Club acknowledges that courts use the substantial evidence standard when reviewing predicate factual issues, but argues that courts ultimately decide as a matter of law what CEQA requires. (Answering Brief, pp. 14, 23.)

SCAQMD submits that the issue is more nuanced than either party contends. We submit that, whether a CEQA document includes sufficient analysis to satisfy CEQA's informational mandates is a mixed question of fact and law, 13 containing two levels of inquiry that should be judged by different standards. 14

The state CEQA Guidelines set forth standards for the adequacy of environmental analysis. Guidelines Section 15151 states:

An EIR should be prepared with a sufficient degree of analysis to provide decision makers with information which enables them to make a decision which intelligently takes account of environmental consequences. An evaluation of the environmental effects of a proposed project need not be exhaustive, but the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible. Disagreement among experts does not make an EIR inadequate, but the EIR should summarize the main points of disagreement among the experts. The courts have looked not for perfection, but for adequacy, completeness, and a good-faith effort at full disclosure.

In this case, the basic question is whether the underlying analysis of air quality impacts made the EIR "sufficient" as an informative document. However, whether the EIR's analysis was sufficient is judged in light of what was reasonably feasible. This represents a mixed question of fact and law that is governed by two different standards of review.

¹³ Friant Ranch actually states that the claim that an EIR lacks sufficient relevant information is, "most properly thought of as raising mixed questions of fact and law." (Opening Brief, p. 27.) However, the remainder of its argument claims that the court should apply the substantial evidence standard of review to all aspects of the issue.

¹⁴ Mixed questions of fact and law issues may implicate predominantly factual subordinate questions that are reviewed under the substantial evidence test even though the ultimate question may be reviewed by the independent judgment test. *Crocker National Bank v. City and County of San Francisco* (1989) 49 Cal.3d 881, 888-889.

SCAQMD submits that an EIR's sufficiency as an informational document is ultimately a legal question that courts should determine using their independent judgment. This Court's language in Laurel Heights I supports this position. As this Court explained: "The court does not pass upon the correctness of the EIR's environmental conclusions, but only upon its sufficiency as an informative document." (Laurel Heights I, supra, 47 Cal.3d at 392-393) (emphasis added.) As described above, the Court in Vineyard Area Citizens v. City of Rancho Cordova, supra, 40 Cal.4th at 431, also used its independent judgment to determine what level of analysis CEQA requires for water supply impacts. The Court did not defer to the lead agency's opinion regarding the law's requirements; rather, it determined for itself what level of analysis was necessary to meet "[t]he law's informational demands." (Id. at p. 432.) Further, existing case law also holds that where an agency fails to comply with CEQA's information disclosure requirements, the agency has "failed to proceed in the manner required by law." (Save Our Peninsula Comm. v. Monterey County Bd. of Supervisors (2001) 87 Cal. App. 4th 99, 118.)

However, whether an EIR satisfies CEQA's requirements depends in part on whether it was reasonably feasible for an agency to conduct additional or more thorough analysis. EIRs must contain "a detailed statement" of a project's impacts (Pub. Res. Code § 21061), and an agency must "use its best efforts to find out and disclose all that it reasonably can." (CEQA Guidelines § 15144.) Nevertheless, "the sufficiency of an EIR is to be reviewed in light of what is reasonably feasible." (CEQA Guidelines § 15151.)

SCAQMD submits that the question of whether additional analysis or a particular study suggested by a commenter is "feasible" is generally a question of fact. Courts have already held that whether a particular alternative is "feasible" is reviewed by the substantial evidence test.

(Uphold Our Heritage v. Town of Woodside (2007) 147 Cal. App. 4th 587, 598-99; Center for Biological Diversity v. County of San Bernardino (2010) 185 Cal. App. 4th 866, 883.) Thus, if a lead agency determines that a particular study or analysis is infeasible, that decision should generally be judged by the substantial evidence standard. However, SCAQMD urges this Court to hold that lead agencies must explain the basis of any determination that a particular analysis is infeasible in the EIR itself. An EIR must discuss information, including issues related to the feasibility of particular analyses "in sufficient detail to enable meaningful participation and criticism by the public. '[W]hatever is required to be considered in an EIR must be in that formal report; what any official might have known from other writings or oral presentations cannot supply what is lacking in the report." (Laurel Heights I, supra, 47 Cal.3d at p. 405 (quoting Santiago County Water District v. County of Orange (1981) 118 Cal. App. 3d 818, 831) (discussing analysis of alternatives).) The evidence on which the determination is based should also be summarized in the EIR itself, with appropriate citations to reference materials if necessary. Otherwise commenting agencies such as SCAQMD would be forced to guess where the lead agency's evidence might be located, thus thwarting effective public participation.

Moreover, if a lead agency determines that a particular study or analysis would not result in reliable or useful information and for that reason is not feasible, that determination should be judged by the substantial evidence test. (See *Neighbors for Smart Rail v. Exposition Metro Line Construction Authority, supra*, 57 Cal.4th 439, 448, 457:

whether "existing conditions" baseline would be misleading or uninformative judged by substantial evidence standard. ¹⁵)

If the lead agency's determination that a particular analysis or study is not feasible is supported by substantial evidence, then the agency has not violated CEQA's information disclosure provisions, since it would be infeasible to provide additional information. This Court's decisions provide precedent for such a result. For example, this Court determined that the issue of whether the EIR should have included a more detailed discussion of future herbicide use was resolved because substantial evidence supported the agency's finding that "the precise parameters of future herbicide use could not be predicted." *Ebbetts Pass Forest Watch v. California Dept. of Forestry & Fire Protection* (2008) 43 Cal.4th 936, 955.

Of course, SCAQMD expects that courts will continue to hold lead agencies to their obligations to consult with, and not to ignore or misrepresent, the views of sister agencies having special expertise in the area of air quality. (*Berkeley Keep Jets Over the Bay v. Board of Port Commissioners* (2007) 91 Cal.App.4th 1344, 1364 n.11.) In some cases, information provided by such expert agencies may establish that the purported evidence relied on by the lead agency is not in fact "substantial". (*Id.* at pp. 1369-1371.)

In sum, courts retain ultimate responsibility to determine what CEQA requires. However, the law does not require exhaustive analysis, but only what is reasonably feasible. Agencies deserve deference for their factual determinations regarding what type of analysis is reasonably feasible. On the other hand, if a commenter requests more information, and the lead agency declines to provide it but does *not* determine that the

¹⁵ The substantial evidence standard recognizes that the courts "have neither the resources nor the scientific expertise" to weigh conflicting evidence on technical issues. (*Laurel Heights I, supra,* 47 Cal.3d 376, 393.)

requested study or analysis would be infeasible, misleading or uninformative, the question becomes whether the omission of that analysis renders the EIR inadequate to satisfy CEQA's informational purposes. (*Id.* at pp. 1370-71.) Again, this is predominantly a question of law and should be judged by the de novo or independent judgment standard of review. Of course, this Court has recognized that a "project opponent or reviewing court can always imagine some additional study or analysis that might provide helpful information. It is not for them to design the EIR. That further study...might be helpful does not make it necessary." (*Laurel Heights I, supra, 47* Cal.3d 376, 415 – see also CEQA Guidelines § 15204(a) [CEQA "does not require a lead agency to conduct every test. . . recommended or demanded by commenters."].) Courts, then, must adjudicate whether an omission of particular information renders an EIR inadequate to serve CEQA's informational purposes. ¹⁶

¹⁶ We recognize that there is case law stating that the substantial evidence standard applies to "challenges to the scope of an EIR's analysis of a topic" as well as the methodology used and the accuracy of the data relied on in the document "because these types of challenges involve factual questions." (Bakersfield Citizens for Local Control v. City of Bakersfield, supra, 124 Cal.App.4th 1184, 1198, and cases relied on therein.) However, we interpret this language to refer to situations where the question of the scope of the analysis really is factual—that is, where it involves whether further analysis is feasible, as discussed above. This interpretation is supported by the fact that the Bakersfield court expressly rejected an argument that a claimed "omission of information from the EIR should be treated as inquiries whether there is substantial evidence supporting the decision approving the project." Bakersfield, supra, 124 Cal. App. 4th at p. 1208. And the Bakersfield court ultimately decided that the lead agency must analyze the connection between the identified air pollution impacts and resulting health impacts, even though the EIR already included some discussion of air-pollution-related respiratory illnesses. Bakersfield, supra, 124 Cal.App.4th at p. 1220. Therefore, the court must not have interpreted this question as one of the "scope of the analysis" to be judged by the substantial evidence standard.

B. Friant Ranch's Rationale for Rejecting the Independent Judgment Standard of Review is Unsupported by Case Law.

In its brief, Friant Ranch makes a distinction between cases where a required CEQA topic is not discussed at all (to be reviewed by independent judgment as a failure to proceed in the manner required by law) and cases where a topic is discussed, but the commenter claims the information provided is insufficient (to be judged by the substantial evidence test). (Opening Brief, pp. 13-17.) The Court of Appeal recognized these two types of cases, but concluded that both raised questions of law. (Sierra Club v. County of Fresno (2014) 226 Cal.App.4th 704 (superseded by grant of review) 172 Cal.Rptr.3d 271, 290.) We believe the distinction drawn by Friant Ranch is unduly narrow, and inconsistent with cases which have concluded that CEQA documents are insufficient. In many instances, CEQA's requirements are stated broadly, and the courts must interpret the law to determine what level of analysis satisfies CEQA's mandate for providing meaningful information, even though the EIR discusses the issue to some extent.

For example, the CEQA Guidelines require discussion of the existing environmental baseline. In *County of Amador v. El Dorado County Water Agency* (1999) 76 Cal.App.4th 931, 954-955, the lead agency had discussed the environmental baseline by describing historic month-end water levels in the affected lakes. However, the court held that this was not an adequate baseline discussion because it failed to discuss the timing and amounts of past actual water releases, to allow comparison with the proposed project. The court evidently applied the independent judgment test to its decision, even though the agency discussed the issue to some extent.

Likewise, in *Vineyard Area Citizens* (2007) 40 Cal.4th 412, this
Court addressed the question of whether an EIR's analysis of water supply impacts complied with CEQA. The parties agreed that the EIR was required to analyze the effects of providing water to the development project, "and that in order to do so the EIR had, in some manner, to identify the planned sources of that water." (*Vineyard Area Citizens, supra*, at p. 428.) However, the parties disagreed as to the level of detail required for this analysis and "what level of uncertainty regarding the availability of water supplies can be tolerated in an EIR" (*Id.*) In other words, the EIR had analyzed water supply impacts for the project, but the petitioner claimed that the analysis was insufficient.

This Court noted that neither CEQA's statutory language or the CEQA Guidelines specifically addressed the question of how precisely an EIR must discuss water supply impacts. (Id.) However, it explained that CEQA "states that '[w]hile foreseeing the unforeseeable is not possible, an agency must use its best efforts to find out and disclose all that it reasonably can." (Id., [Guidelines § 15144].) The Court used this general principle, along with prior precedent, to elucidate four "principles for analytical adequacy" that are necessary in order to satisfy "CEQA's informational purposes." (Vineyard Area Citizens, supra, at p. 430.) The Court did not defer to the agency's determination that the EIR's analysis of water supply impacts was sufficient. Rather, this Court used its independent judgment to determine for itself the level of analysis required to satisfy CEQA's fundamental purposes. (Vineyard Area Citizens, supra, at p. 441: an EIR does not serve its purposes where it neglects to explain likely sources of water and "... leaves long term water supply considerations to later stages of the project.")

Similarly, the CEQA Guidelines require an analysis of noise impacts of the project. (Appendix G, "Environmental Checklist Form." In *Gray v. County of Madera* (2008) 167 Cal.App.4th 1099, 1123, the court held that the lead agency's noise impact analysis was inadequate even though it had addressed the issue and concluded that the increase would not be noticeable. If the court had been using the substantial evidence standard, it likely would have upheld this discussion.

Therefore, we do not agree that the issue can be resolved on the basis suggested by Friant Ranch, which would apply the substantial evidence standard to *every* challenge to an analysis that addresses a required CEQA topic. This interpretation would subvert the courts' proper role in interpreting CEQA and determining what the law requires.

Nor do we agree that the Court of Appeal in this case violated CEQA's prohibition on courts interpreting its provisions "in a manner which imposes procedural or substantive requirements beyond those explicitly stated in this division or in the state guidelines." (Pub. Resources Code § 21083.1.) CEQA requires an EIR to describe *all* significant impacts of the project on the environment. (Pub. Resources Code § 21100(b)(2); *Vineyard Area Citizens, supra,* at p. 428.) Human beings are part of the environment, so CEQA requires EIRs to discuss a project's significant impacts on human health. However, except in certain particular circumstances, ¹⁸ neither the CEQA statute nor Guidelines specify the precise level of analysis that agencies must undertake to satisfy the law's requirements. (see, e.g., CEQA Guidelines § 15126.2(a) [EIRs must describe "health and safety problems caused by {a project's} physical changes"].) Accordingly, courts must interpret CEQA as a whole to

¹⁷ Association of Environmental Professionals, 2015 CEQA Statute and Guidelines (2015) p.287.

¹⁸ E.g., Pub. Resources Code § 21151.8(C)(3)(B)(iii) (requiring specific type of health risk analysis for siting schools).

determine whether a particular EIR is sufficient as an informational document. A court determining whether an EIR's discussion of human health impacts is legally sufficient does not constitute imposing a new substantive requirement. Under Friant Ranch's theory, the above-referenced cases holding a CEQA analysis inadequate would have violated the law. This is not a reasonable interpretation.

IV. COURTS MUST SCRUPULOUSLY ENFORCE THE REQUIREMENTS THAT LEAD AGENCIES CONSULT WITH AND OBTAIN COMMENTS FROM AIR DISTRICTS

Courts must "scrupulously enforce" CEQA's legislatively mandated requirements. (*Vineyard Area Citizens, supra*, 40 Cal.4th 412, 435.) Case law has firmly established that lead agencies must consult with the relevant air pollution control district before conducting an initial study, and must provide the districts with notice of the intention to adopt a negative declaration (or EIR). (*Schenck v. County of Sonoma* (2011) 198 Cal.App.4th 949, 958.) As *Schenck* held, neither publishing the notice nor providing it to the State Clearinghouse was a sufficient substitute for sending notice directly to the air district. (*Id.*) Rather, courts "must be satisfied that [administrative] agencies have fully complied with the procedural requirements of CEQA, since only in this way can the important public purposes of CEQA be protected from subversion." *Schenck*, 198 Cal.App.4th at p. 959 (citations omitted).²⁰

¹⁹ We submit that Public Resources Code Section 21083.1 was intended to prevent courts from, for example, holding that an agency must analyze economic impacts of a project where there are no resulting environmental impacts (see CEQA Guidelines § 15131), or imposing new procedural requirements, such as imposing additional public notice requirements not set forth in CEQA or the Guidelines.

²⁰ Lead agencies must consult air districts, as public agencies with jurisdiction by law over resources affected by the project, *before* releasing an EIR. (Pub. Resources Code §§ 21104(a); 21153.) Moreover, air

Lead agencies should be aware, therefore, that failure to properly seek and consider input from the relevant air district constitutes legal error which may jeopardize their project approvals. For example, the court in *Fall River Wild Trout Foundation v. County of Shasta*, (1999) 70 Cal.App.4th 482, 492 held that the failure to give notice to a trustee agency (Department of Fish and Game) was prejudicial error requiring reversal. The court explained that the lack of notice prevented the Department from providing any response to the CEQA document. (*Id.* at p. 492.) It therefore prevented relevant information from being presented to the lead agency, which was prejudicial error because it precluded informed decision-making. (*Id.*)²¹

districts should be considered "state agencies" for purposes of the requirement to consult with "trustee agencies" as set forth in Public Resources Code § 20180.3(a). This Court has long ago held that the districts are not mere "local agencies" whose regulations are superseded by those of a state agency regarding matters of statewide concern, but rather have concurrent jurisdiction over such issues. (Orange County Air Pollution Control District v. Public Util. Com. (1971) 4 Cal.3d 945, 951, 954.) Since air pollution is a matter of statewide concern, *Id* at 952, air districts should be entitled to trustee agency status in order to ensure that this vital concern is adequately protected during the CEQA process. ²¹ In Schenck, the court concluded that failure to give notice to the air district was not prejudicial, but this was partly because the trial court had already corrected the error before the case arrived at the Court of Appeal. The trial court issued a writ of mandate requiring the lead agency to give notice to the air district. The air district responded by concurring with the lead agency that air impacts were not significant. (Schenck, 198 Cal.App.4th 949, 960.) We disagree with the Schenck court that the failure to give notice to the air district would not have been prejudicial (even in the absence of the trial court writ) merely because the lead agency purported to follow the air district's published CEQA guidelines for significance. (Id., 198 Cal.App.4th at p. 960.) In the first place, absent notice to the air district, it is uncertain whether the lead agency properly followed those guidelines. Moreover, it is not realistic to expect that an air district's published guidelines would necessarily fully address all possible air-quality related issues that can arise with a CEQA project, or that those

Similarly, lead agencies must obtain additional information requested by expert agencies, including those with jurisdiction by law, if that information is necessary to determine a project's impacts. (Sierra Club v. State Bd. Of Forestry (1994) 7 Cal.4th 1215, 1236-37.) Approving a project without obtaining that information constitutes a failure to proceed in the manner prescribed by CEQA. (Id. at p. 1236.)

Moreover, a lead agency can save significant time and money by consulting with the air district early in the process. For example, the lead agency can learn what the air district recommends as an appropriate analysis on the facts of its case, including what kinds of health impacts analysis may be available, and what models are appropriate for use. This saves the lead agency from the need to do its analysis all over again and possibly needing to recirculate the document after errors are corrected, if new significant impacts are identified. (CEQA Guidelines § 15088.5(a).) At the same time, the air district's expert input can help the lead agency properly determine whether another commenter's request for additional analysis or studies is reasonable or feasible. Finally, the air district can provide input on what mitigation measures would be feasible and effective.

Therefore, we suggest that this Court provide guidance to lead agencies reminding them of the importance of consulting with the relevant air districts regarding these issues. Otherwise, their feasibility decisions may be vulnerable to air district evidence that establishes that there is no substantial evidence to support the lead agency decision not to provide specific analysis. (*See Berkeley Keep Jets Over the Bay, supra*, 91 Cal.App.4th 1344, 1369-1371.)

guidelines would necessarily be continually modified to reflect new developments. Therefore we believe that, had the trial court not already ordered the lead agency to obtain the air district's views, the failure to give notice would have been prejudicial, as in *Fall River*, *supra*, 70 Cal.App.4th 482, 492.

CONCLUSION

The SCAQMD respectfully requests this Court *not* to establish a hard-and-fast rule concerning whether CEQA requires a lead agency to correlate identified air quality impacts of a project with resulting health outcomes. Moreover, the question of whether an EIR is "sufficient as an informational document" is a mixed question of fact and law containing two levels of inquiry. Whether a particular proposed analysis is feasible is predominantly a question of fact to be judged by the substantial evidence standard of review. Where the requested analysis is feasible, but the lead agency relies on legal or policy reasons not to provide it, the question of whether the EIR is nevertheless sufficient as an informational document is predominantly a question of law to be judged by the independent judgment standard of review.

Respectfully submitted,

DATED: April 3, 2015

SOUTH COAST AIR QUALITY
MANAGEMENT DISTRICT
KURT R. WIESE, GENERAL COUNSEL
BARBARA BAIRD, CHIEF DEPUTY COUNSEL

Ву: _

Barbara Baird

Attorneys for Amicus Curiae

SOUTH COAST AIR QUALITY MANAGEMENT DISTICT

CERTIFICATE OF WORD COUNT

Pursuant to Rule 8.520(c)(1) of the California Rules of Court, I hereby certify that this brief contains 8,476 words, including footnotes, but excluding the Application, Table of Contents, Table of Authorities, Certificate of Service, this Certificate of Word Count, and signature blocks. I have relied on the word count of the Microsoft Word Vista program used to prepare this Certificate.

DATED: April 3, 2015

Respectfully submitted,

Barbara Baird

PROOF OF SERVICE

I am employed in the County of Los Angeles, California. I am over the age of 18 years and not a party to the within action. My business address is 21865 Copley Drive, Diamond Bar, California 91765.

On April 3, 2015 I served true copies of the following document(s) described as APPLICATION OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT FOR LEAVE TO FILE BRIEF OF AMICUS CURIAE IN SUPPORT OF NEITHER PARTY AND [PROPOSED] BRIEF OF AMICUS CURIAE by placing a true copy of the foregoing document(s) in a sealed envelope addressed as set forth on the attached service list as follows:

BY MAIL: I enclosed the document(s) in a sealed envelope or package addressed to the persons at the addresses listed in the Service List and placed the envelope for collection and mailing following our ordinary business practices. I am readily familiar with this District's practice for collection and processing of correspondence for mailing. Under that practice, the correspondence would be deposited with the United States Postal Service, with postage thereon fully prepaid at Diamond Bar, California, in the ordinary course of business. I am aware that on motion of the party served, service is presumed invalid if postal cancellation date or postage meter date is more than one day after date of deposit for mailing in affidavit.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed on April 3, 2015 at Diamond Bar, California.

Patricia Anderson

SERVICE LIST

James G. Moose, Tiffany K. Wright, Laura M. Harris REMY MOOSE MANLEY, LLP 555 Capitol Mall, Suite 800 Sacramento, CA 95814 Attorneys for Real Party in Interest and Respondent *Friant Ranch*, *L.P.*

Bryan N. Wagner WAGNER & WAGNER 7110 N. Fresno St, Suite 340 Fresno, CA 93720 Attorney for Real Party in Interest and Respondent *Friant Ranch*, *L.P.*

Sara Hedgpeth-Harris LAW OFFICE OF SARA HEDGPETH-HARRIS 5445 E. Lane Avenue Fresno, CA 93727 Attorney for Plaintiffs and Appellants Sierra Club, et al

Daniel C. Cederborg
Bruce B. Johnson, Jr.
Zachary Stephen Redmond
OFFICE OF THE FRESNO COUNTY
COUNSEL
2220 Tulare Street, Suite 500
Fresno, CA 93721

Attorneys for Respondents County of Fresno

Clerk of the Court
California Court of Appeal
Fifth Appellate District
2424 Ventura Street
Fresno, CA 93721
(via U.S. Mail & Electronic Transmission)

Clerk of the Court Superior Court of California County of Fresno 1130 O Street Fresno, CA 93721 This page intentionally left blank

