



Majestic Chino Heritage

AIR QUALITY IMPACT ANALYSIS

CITY OF CHINO

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LIST OF ABBREVIATED TERMS

(1)	Reference
$\mu\text{g}/\text{m}^3$	Microgram per Cubic Meter
AADT	Annual Average Daily Trips
AQ	Air Quality
AQIA	Air Quality Impact Analysis
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
ARB	California Air Resources Board
BACM	Best Available Control Measures
BBAQMD	Bay Area Air Quality Management District
BC	Black Carbon
BP	Business Park
CAA	Federal Clean Air Act
CAAQS	California Ambient Air Quality Standards
CalEEMod	California Emissions Estimator Model
CALGreen	California Green Building Standards Code
Caltrans	California Department of Transportation
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
CFR	Code of Federal Regulations
CITY	City of Chino
CO	Carbon Monoxide
CY	Cubic Yards
DPM	Diesel Particulate Matter
DRRP	Diesel Risk Reduction Plan
EIR	Environmental Impact Reports
EPA	Environmental Protection Agency
ETW	Equivalent Test Weight
GHG	Greenhouse Gas
GVWR	Gross Vehicle Weight Rating
HDT	Heavy Duty Trucks
HHDT	Heavy-Heavy Duty Trucks
LDA	Light Duty Automobiles

LHD	Light Heavy Duty
LI	Light Industrial
LST	Localized Significance Threshold
MATES	Multiple Air Toxics Exposure Study
LST METHODOLOGY	Final Localized Significance Threshold Methodology
MHD	Medium Heavy Duty
MM	Mitigation Measures
NAAQS	National Ambient Air Quality Standards
NCHRP	National Cooperative Highway Research Program
NO ₂	Nitrogen Dioxide
NO _x	Nitrogen Oxides
O ₃	Ozone
OBD-II	On-Board Diagnostic
Pb	Lead
PM ₁₀	Particulate Matter 10 microns in diameter or less
PM _{2.5}	Particulate Matter 2.5 microns in diameter or less
POLA	Port of Los Angeles
POLB	Port of Long Beach
PPM	Parts Per Million
Project	Majestic Chino Heritage
RECLAIM	Regional Clean Air Incentives Market
RFG-2	Reformulated Gasoline Regulation
ROG	Reactive Organic Gases
RTP/SCS	Regional Transportation Plan/ Sustainable Communities Strategy
SB	Senate Bill
SBTAM	San Bernardino County Transportation Analysis Model
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
Site #1	Excess Fill Dirt Site #1
Site #2	Excess Fill Dirt Site #2
Site #3	Excess Fill Dirt Site #3
Site #4	Excess Fill Dirt Site #4
Site #5	Excess Fill Dirt Site #5
SO ₂	Sulfur Dioxide

SRA	Source Receptor Area
TAC	Toxic Air Contaminant
TIA	Traffic Impact Analysis
TOG	Total Organic Gases
TRUs	Transport Refrigeration Units
UFP	Ultra Fine Particles
URBEMIS	Urban Emissions
UTRs	Utility Tractors
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compounds
VPH	Vehicles Per Hour

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EXECUTIVE SUMMARY

The results of this *Majestic Chino Heritage Air Quality Impact Analysis* 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 (1). Table ES-1 shows the findings of significance for each potential air quality impact under CEQA for the Project.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Regional Construction Emissions	3.4	<i>Potentially Significant</i>	<i>Significant and Unavoidable</i>
Localized Construction Emissions	3.6	<i>Less Than Significant</i>	<i>n/a</i>
Regional Operational Emissions	3.5	<i>Potentially Significant</i>	<i>Significant and Unavoidable</i>
Localized Operational Emissions	3.7	<i>Less Than Significant</i>	<i>n/a</i>
CO “Hot Spot” Analysis	3.8	<i>Less Than Significant</i>	<i>n/a</i>
Air Quality Management Plan	3.9	<i>Potentially Significant</i>	<i>Significant and Unavoidable</i>
Sensitive Receptors	3.10	<i>Less Than Significant</i>	<i>n/a</i>
Odors	3.11	<i>Less Than Significant</i>	<i>n/a</i>
Cumulative Impacts	3.12	<i>Potentially Significant</i>	<i>Significant and Unavoidable</i>

ES.1 STANDARD REGULATORY REQUIREMENTS/BEST AVAILABLE CONTROL MEASURES (BACMs)

Measures listed below (or equivalent language) shall appear on all Project grading plans, construction specifications and bid documents, and the City shall ensure such language is incorporated prior to issuance of any development permits. South Coast Air Quality Management District (SCAQMD) Rules that are currently applicable during construction activity for this Project include but are not limited to Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). It should be noted that these Best Available Control Measures (BACMs) are not mitigation as they are standard regulatory requirements. Credit for emissions reductions resulting from application of Rule 403 and Rule 1113 are reflected in the analyses presented here.

BACM AQ-1

The contractor shall adhere to applicable measures contained in Table 1 of Rule 403 including, but not limited to (2):

- All clearing, grading, earth-moving, or excavation activities shall cease when winds exceed 25 mph per SCAQMD guidelines in order to limit fugitive dust emissions.
- The contractor shall ensure that all disturbed unpaved roads and disturbed areas within the Project are watered at least three (3) times daily during dry weather. Watering, with complete coverage of disturbed areas, shall occur at least three times a day, preferably in the mid-morning, afternoon, and after work is done for the day.
- The contractor shall ensure that traffic speeds on unpaved roads and Project site areas are limited to 15 miles per hour or less.

BACM AQ-2

The following measures shall be incorporated into Project plans and specifications as implementation of SCAQMD Rule 1113 (3):

- Only “Low-Volatile Organic Compounds (VOC)” paints (no more than 50 gram/liter of VOC) consistent with SCAQMD Rule 1113 shall be used.

ES.2 CONSTRUCTION-SOURCE MITIGATION MEASURES**MM AQ-1**

The Construction Contractor shall use off-road diesel construction equipment that complies with EPA/CARB Tier 3 emissions standards and will ensure that all construction equipment be tuned and maintained in accordance with the manufacturer’s specifications.

Emissions resulting from the Project construction will still exceed thresholds established by the SCAQMD for emissions of NO_x. The NO_x exceedance is primarily due to hauling truck trips related to soil import activity, thus NO_x emissions during construction are considered significant and unavoidable.

ES.3 OPERATIONAL-SOURCE EMISSIONS MITIGATION MEASURES

The Project would exceed regional thresholds of significance established by the SCAQMD for emissions for VOCs and NO_x emissions. It is important to note that approximately 70 percent of VOC emissions are derived from consumer products. For analytical purposes, consumer products include cleaning supplies, aerosols, and other consumer products (4). As such, the Project Applicant cannot meaningfully control the use of consumer products by future building users via mitigation; thus, VOC emissions are considered significant and unavoidable as no feasible mitigation measure exists that would reduce this impact to less than significant levels. Additionally, it should be noted that 93 percent of the Project’s NO_x emissions are derived from vehicle usage. Since neither the Project Applicant nor the City have regulatory authority to control tailpipe emissions, no feasible mitigation measures exist that would reduce NO_x emissions to levels that are less-than-significant. Thus, VOC and NO_x emissions are considered

significant and unavoidable. The following mitigation measures (MM AQ-2 through MM AQ-6) are designed to reduce the operational VOC and NO_x emissions but will not be sufficient enough to reduce the VOC and NO_x emissions to less than the significant impacts.

MM AQ-2

Legible, durable, weather-proof signs shall be placed at truck access gates, loading docks, and truck parking areas that identify applicable California Air Resources Board (CARB) anti-idling regulations. At a minimum, each sign shall include: 1) instructions for truck drivers to shut off engines when not in use; 2) instructions for drivers of diesel trucks to restrict idling to no more than five (5) minutes once the vehicle is stopped, the transmission is set to "neutral" or "park," and the parking brake is engaged; and 3) telephone numbers of the building facilities manager and the CARB to report violations. Prior to the issuance of an occupancy permit, the City of Chino shall conduct a site inspection to ensure that the signs are in place.

MM AQ-3

Prior to tenant occupancy, the Project Applicant or successor in interest shall provide documentation to the City of Chino demonstrating that occupants/tenants of the Project site have been provided documentation on funding opportunities, such as the Carl Moyer Program, that provide incentives for using cleaner-than-required engines and equipment.

MM AQ-4

The minimum number of automobile electric vehicle (EV) charging stations required by the California Code of Regulations Title 24 shall be provided. In addition, the buildings should include a electrical infrastructure sufficiently-sized to accommodate the potential installation of additional auto and truck EV charging stations in the future.

MM AQ-5

Conduit should be installed to tractor trailer parking areas in logical locations determined by the Project Applicant during construction document plan check, for the purpose of accommodating the future installation of EV truck charging stations at such time this technology becomes commercially available.

MM AQ-6

Where transport refrigeration units (TRUs) are in use, electrical hookups shall be installed in order to allow TRUs to use electric standby capabilities.

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1 INTRODUCTION

This report presents the results of the air quality impact analysis (AQIA) prepared by Urban Crossroads, Inc., for the proposed Majestic Chino Heritage (Project).

The purpose of this AQIA is to evaluate the potential impacts to air quality associated with construction and operation of the proposed Project and recommend measures to mitigate impacts considered potentially significant in comparison to thresholds established by the SCAQMD.

1.1 SITE LOCATION

The Project site is located on the southeast corner of Mountain Avenue and Bickmore Avenue in the City of Chino, as shown on Exhibit 1-A. The nearest residential receptor locations to the Project site are located approximately 3,594 feet west of the Project site in the City of Chino Hills.

1.2 PROJECT DESCRIPTION

Exhibit 1-B illustrates the preliminary Project site plan. As indicated on Exhibit 1-B, the total development is proposed to consist of up to 2,082,750 square feet of industrial uses. Consistent with the *Majestic Chino Heritage Traffic Impact Analysis* (TIA (5)) prepared by Urban Crossroads, Inc., the following land uses are assumed:

- Building 1: 1,168,710 square feet of High-Cube Fulfillment Center Warehouse use
- Building 2: 814,040 square feet of High-Cube Fulfillment Center Without Cold Storage use¹
- Remainder of Building 2: 100,000 square feet of High-Cube Warehouse with Cold Storage use
- **Total of 2,082,750 square feet**

The Project's anticipated Opening Year is 2022. At the time this air quality analysis was prepared, the future tenants of the proposed Project were unknown.

Per the TIA, the Project is expected to generate a net total of approximately 4,440 trip-ends per day (actual vehicles) and includes 824 truck trip-ends per day from the proposed buildings within the Project site (5). This air quality study relies on the actual Project trips (as opposed to the passenger car equivalents) to accurately account for the effect of individual truck trips on the study area roadway network.

EXCESS FILL DIRT SITES

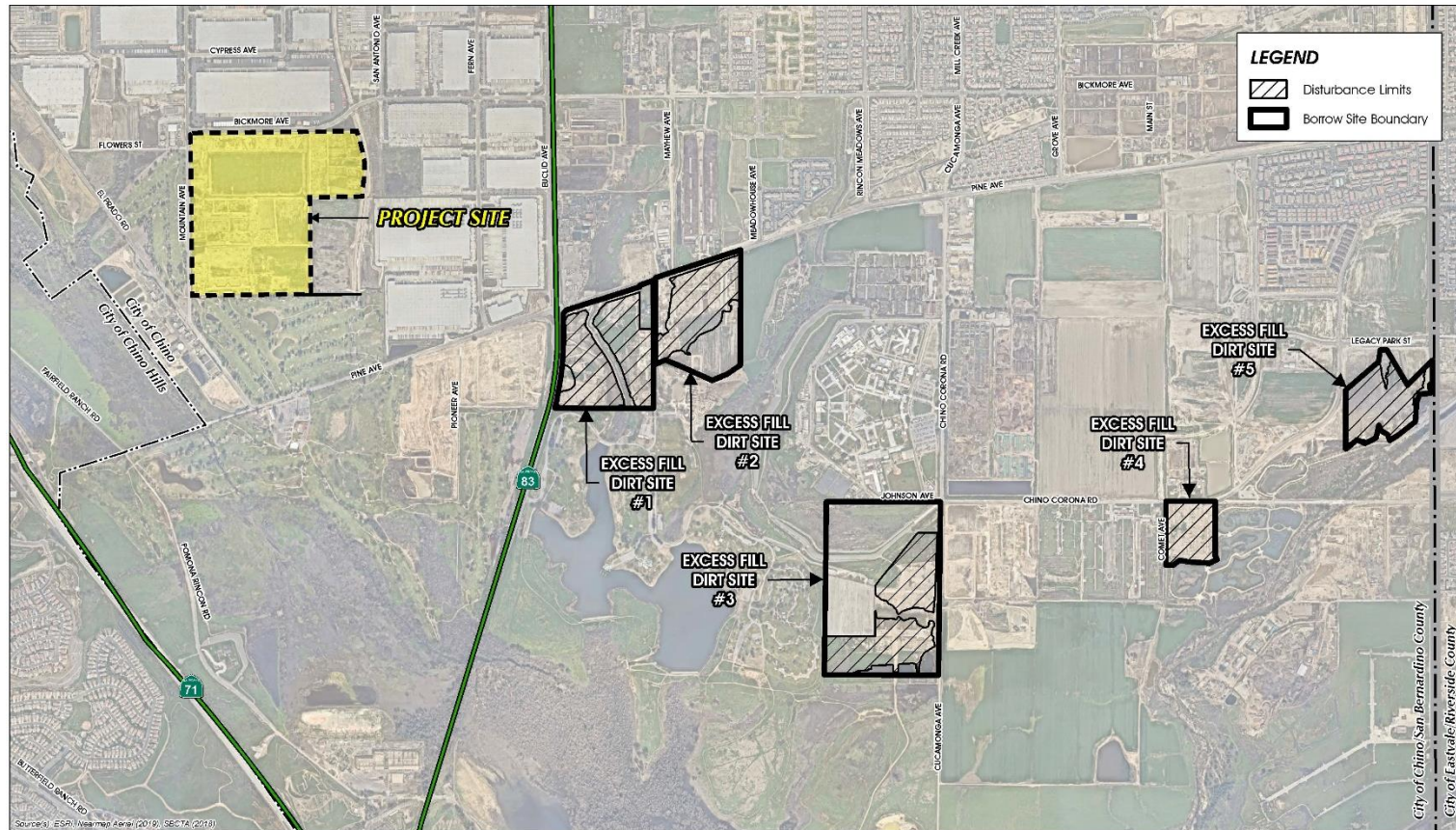
The approximate 96.9-acre Project site is located at the southeast corner of Mountain Avenue and Bickmore Avenue in the City of Chino and is generally below 566 feet above mean sea level, i.e., the "566 Elevation". In order for the Project to be able to be constructed and occupied, it requires that dirt be imported to raise the proposed building Finish Floor elevations so that they

¹ For purposes of analysis, similar land used will be combined. As such, this AQIA will evaluate 1,982,750 square feet of High-Cube Fulfillment Center Warehouse (without Cold Storage) use and 100,000 square feet of High-Cube with Cold Storage use.

are 567-feet above mean sea level. To accomplish this, five nearby borrow sites (or “Excess Fill Dirt Sites”) have been identified that can provide export to be used as import for the Project. The order in which soil will be imported from the Excess Fill Dirt Sites is as follows (Exhibit 1-A identifies the disturbance area for each borrow site).

- Excess Fill Dirt Site #1 (Site #1) – an approximate 43-acre parcel located 1.30 roadway miles from the Project site at the southeast corner of Euclid Avenue and Pine Avenue.
- Excess Fill Dirt Site #3 (Site #3) – an approximate 84-acre parcel located 3.00 roadway miles from the Project site on the west side of Cucamonga Avenue, south of the California Institution for Women.
- Excess Fill Dirt Site #4 (Site #4) – an approximate 11-acre parcel located 3.60 roadway miles from the Project site at the southeast corner of Chino Corona Road and East County Road.
- Excess Fill Dirt Site #5 (Site #5) – an approximate 29-acre parcel located 4.20 roadway miles from the Project site north of Chino Corona Road on the west side of Hellman Avenue.
- Excess Fill Dirt Site #2 (Site #2) – an approximate 38-acre parcel located 1.50 roadway miles from the Project site at the southeast corner of Johnson Avenue and Pine Avenue.

EXHIBIT 1-A: 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

The Project site is located in the South Coast Air Basin (SCAB) within the jurisdiction of SCAQMD (6). 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). 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 to sulfates 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 percent along the coast and 59 percent 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 percent 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 Carbon Monoxide (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 (7):

TABLE 2-1: CRITERIA POLLUTANTS

Criteria Pollutant	Description	Sources	Health Effects
CO	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, 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 supply to the heart. Inhaled CO has no direct toxic effect on the lungs but exerts its effect on tissues by interfering with oxygen transport and competing with oxygen to combine with hemoglobin present in the blood to form carboxyhemoglobin (COHb). Hence, conditions with an increased demand for oxygen 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 (oxygen deficiency) as seen at high altitudes.

Criteria Pollutant	Description	Sources	Health Effects
Sulfur Dioxide (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 sulfates (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 SO₂ 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 SO₂. In contrast, healthy individuals do not exhibit similar acute responses even after exposure to higher concentrations of SO₂. Animal studies suggest that despite SO₂ 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 SO₂ levels. In these studies, efforts to separate the effects of SO₂ 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 (NO₂) and nitrous oxide (N₂O) and are formed when nitrogen (N₂) combines with oxygen (O₂). Their lifespan in the atmosphere ranges from one to seven days for nitric oxide and nitrogen dioxide, to 170 years for nitrous oxide. Nitrogen oxides are typically created during combustion processes and are major contributors to smog formation and acid deposition. NO₂ 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 nitrogen oxide compounds, NO₂ is the most abundant in the atmosphere. As ambient concentrations of NO₂ are related to traffic density, commuters in heavy traffic may be exposed to higher concentrations of NO₂ 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 NO₂ 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 NO₂ 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 NO₂ 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 ozone exposure increases when animals are exposed to a combination of ozone and NO₂.
Ozone (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. Ozone concentrations are generally	Formed when reactive organic gases (ROG) and nitrogen oxides react in the presence of sunlight. ROG sources	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 sub-groups for ozone effects.

Criteria Pollutant	Description	Sources	Health Effects
	highest during the summer months when direct sunlight, light wind, and warm temperature conditions are favorable to the formation of this pollutant.	include any source that burns fuels, (e.g., gasoline, natural gas, wood, oil) solvents, petroleum processing and storage and pesticides.	Short-term exposure (lasting for a few hours) to ozone at levels typically observed in Southern California can result in breathing pattern changes, reduction of breathing capacity, increased susceptibility to infections, inflammation of the lung tissue, and some immunological changes. Elevated ozone levels are associated with increased school absences. In recent years, a correlation between elevated ambient ozone 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 live in communities with high ozone levels. Ozone 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 ozone may be more toxic than exposure to ozone 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 (Particulate Matter less than 10 microns): A major air pollutant consisting of tiny solid or liquid particles of soot, dust,	Sources of PM ₁₀ include road dust, windblown dust and construction. Also	A consistent correlation between elevated ambient fine particulate matter (PM ₁₀ and PM _{2.5}) levels and an

Criteria Pollutant	Description	Sources	Health Effects
	smoke, fumes, and aerosols. Particulate matter pollution is a major cause of reduce visibility (haze) which is caused by the scattering of light 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 PM₁₀ is considered a criteria air pollutant. PM_{2.5} (Particulate Matter less than 2.5 microns): A similar air pollutant to PM₁₀ 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 sulfates formed from SO₂ 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.	formed from other pollutants (acid rain, NO_x, SO_x, 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).	increase in mortality rates, respiratory infections, number and severity of 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 pre-existing respiratory or cardiovascular disease, and children appear to be more susceptible to the effects of high levels of PM₁₀ and PM_{2.5}.
Volatile Organic Compounds (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	Organic chemicals are widely used as ingredients in household products. Paints, varnishes and wax all contain organic solvents, as do many cleaning, disinfecting,	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

Criteria Pollutant	Description	Sources	Health Effects
	compounds) have different levels of reactivity; that is, they do not react at the same speed or do not form ozone 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.	cosmetic, degreasing and hobby products. 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.	effects, though many have several.
ROG	Similar to VOC, ROG's are also precursors in forming ozone 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 nitrogen oxides react in the presence of sunlight. ROG's 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)	Lead is a heavy metal that is highly persistent in the environment and is considered a criteria pollutant. In the past, the primary source of lead in the air was emissions from vehicles burning leaded gasoline. The major sources of lead emissions are ore and metals processing, particularly lead smelters, and piston-engine aircraft operating on leaded aviation gasoline. Other stationary sources include waste incinerators, utilities, and	Metal smelters, resource recovery, leaded gasoline, deterioration of lead 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

Criteria Pollutant	Description	Sources	Health Effects
	lead-acid battery manufacturers. It should be noted that the Project does not include operational activities such as metal processing or lead acid battery manufacturing. As such, the Project is not anticipated to generate a quantifiable amount of lead emissions.		associated with increased blood pressure. Pb poisoning can cause anemia, lethargy, seizures, and death; although it appears that there are no direct effects of Pb on the 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 experienced by a person when one or more chemical substances in the air come into contact with the human olfactory nerves (8).	Odors can come from many sources including animals, human activities, industry, natures, and vehicles.	Offensive odors can potentially affect human health in several ways. First, odorant compounds can irritate the eye, nose, and 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. National Ambient Air Quality Standards (NAAQS) and California Ambient Air Quality Standards (CAAQS) currently in effect are shown in Table 2-2 (9).

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 and are 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} are not to be exceeded. 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 Air District meets the standards set by the Environmental Protection Agency (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, a State Implementation Plan (SIP) is drafted by CARB. 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 (10).

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

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

See footnotes on next page ...

See footnotes on next page ...

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

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 $150 \mu\text{g}/\text{m}^3$ 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.
4. 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.
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 $15 \mu\text{g}/\text{m}^3$ to $12.0 \mu\text{g}/\text{m}^3$. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at $35 \mu\text{g}/\text{m}^3$, as was the annual secondary standard of $15 \mu\text{g}/\text{m}^3$. The existing 24-hour PM10 standards (primary and secondary) of $150 \mu\text{g}/\text{m}^3$ 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 SO_2 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 SO_2 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 ($1.5 \mu\text{g}/\text{m}^3$ 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 national ambient air quality standards (NAAQS) for six of the most common air pollutants: CO, lead, ozone, particulate matter, nitrogen dioxide, and sulfur dioxide which are known as criteria pollutants. The SCAQMD monitors levels of various criteria pollutants at 37 permanent monitoring stations and 5 single-pollutant source Lead (Pb) air monitoring sites throughout the air district (11). On February 21, 2019, CARB posted the 2018 amendments to the state and national area designations. See Table 2-3 for attainment designations for the SCAB (12). 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
CO	Attainment	Unclassifiable/Attainment
NO ₂	Attainment	Unclassifiable/Attainment
SO ₂	Unclassifiable/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

"--" = The national 1-hour O₃ standard was revoked effective June 15, 2005.

2.7 LOCAL AIR QUALITY

The Project site is located within the Source Receptor Area (SRA) 33. Within SRA 33, the SCAQMD CA-60 Near Road monitoring station is located 5.48 miles northeast of the Project site and is the nearest long-term air quality monitoring site for NO₂ and PM_{2.5}. The SCAQMD I-10 Near Road monitoring station is located 10.73 miles northeast of the Project site and is the next nearest monitoring site within SRA 33. The I-10 Near Road monitoring station provides data for CO. Relative to the Project site, the nearest long-term air quality monitoring site for O₃ is the SCAQMD Pomona/Walnut Valley (SRA 10) monitoring station located 8.76 miles northwest of the Project site. The SCAQMD Corona/Norco Area (SRA 22) monitoring station, which is located 5.55 miles southeast of the Project site, is the nearest monitoring station relative to the Project site that provides data for PM₁₀. It should be noted that both the Pomona/Walnut Valley and Corona/Norco Area monitoring stations were utilized in lieu of the CA-60 Near Road and I-10 Near Road monitoring stations only in instances where data was not available.

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

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 Project site. Data for O₃, CO, NO₂, PM₁₀, and PM_{2.5} for 2016 through 2018 was obtained from the SCAQMD Air Quality Data Tables (13). 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 2016-2018

POLLUTANT	STANDARD	YEAR		
		2016	2017	2018
O ₃				
Maximum Federal 1-Hour Concentration (ppm)		0.127	0.147	0.112
Maximum Federal 8-Hour Concentration (ppm)		0.092	0.114	0.092
Number of Days Exceeding Federal 1-Hour Standard	>0.07 ppm	1	5	0
Number of Days Exceeding State 1-Hour Standard	> 0.09 ppm	20	18	7
Number of Days Exceeding Federal 8-Hour Standard	> 0.070 ppm	26	35	10
Number of Days Exceeding State 8-Hour Standard	> 0.070 ppm	29	35	10
CO				
Maximum Federal 1-Hour Concentration	> 35 ppm	1.7	4.2	1.6
Maximum Federal 8-Hour Concentration	> 20 ppm	1.3	1.3	1.3
NO ₂				
Maximum Federal 1-Hour Concentration	> 0.100 ppm	0.089	0.093	0.079
Annual Federal Standard Design Value		31.0	32.1	30.4
PM ₁₀				
Maximum Federal 24-Hour Concentration (µg/m ³)	> 150 µg/m ³	62.0	85.1	100
Annual Federal Arithmetic Mean (µg/m ³)		31.7	31.2	30.2
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	7	7	3
PM _{2.5}				
Maximum Federal 24-Hour Concentration (µg/m ³)	> 35 µg/m ³	55.9	67.8	47.9
Annual Federal Arithmetic Mean (µg/m ³)	> 12 µg/m ³	14.8	14.6	14.3
Number of Days Exceeding Federal 24-Hour Standard	> 35 µg/m ³	7	9	5

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 O₃, CO, NO_x, SO₂, PM₁₀, and Pb (14). 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 the 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 (15). 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 will 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) (16) (17). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3 , NO_2 , SO_2 , PM_{10} , CO , $PM_{2.5}$, and Pb . The NAAQS were amended in July 1997 to include an additional standard for O_3 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 nitrogen oxides (NO , NO_2 , NO_3) which are emitted as byproducts of the combustion process.

2.8.2 CALIFORNIA REGULATIONS

California Air Resource Board. The 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. The CARB established the CAAQS for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for sulfates, visibility, hydrogen sulfide, and vinyl chloride. However, at this time, hydrogen sulfide and vinyl chloride 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 (18) (14).

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 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 five percent or more annual reduction in emissions or 15 percent or more in a period of three years for ROG_s, NO_x, CO and PM₁₀. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than five percent per year under certain circumstances.

Title 24 Energy Efficiency Standards and California Green Building Standards. CCR Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, 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, 2011, 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 2019 California Green Building Code Standards that will be effective January 1, 2020. 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 and demolition ordinances and defers to them as the ruling guidance provided, they establish a minimum 65 percent diversion requirement. The code also provides exemptions for areas not served by construction 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 2019 version of Title 24 was adopted by the California Energy Commission (CEC) and will become effective on January 1, 2020. As a conservative measure, the analysis herein assumes compliance with the 2016 Title 24 Standards and no additional reduction for compliance with the 2019 standards have been taken.

The 2019 Title 24 standards will 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 2019 Title 24 standards will require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, and update indoor and outdoor lighting requirements for nonresidential buildings. The CEC anticipates that single-family homes built with the 2019

standards will use approximately 7 percent less energy compared to the residential homes built under the 2016 standards. Additionally, after implementation of solar photovoltaic systems, homes built under the 2019 standards will use about 53 percent less energy than homes built under the 2016 standards. Nonresidential buildings (such as the Project) will use approximately 30 percent less energy due to lighting upgrade requirements (19).

Because the Project will be constructed after January 1, 2019, the 2019 CALGreen standards are applicable to the Project and require, among other items (20):

- 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 percent 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 10 or more tenant-occupants, provide secure bicycle parking for 5 percent 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 10 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 percent 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 percent 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 not 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).

- 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 (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 project 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).

2.8.3 AIR QUALITY MANAGEMENT PLANNING

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of Air Quality Management Plans (AQMP) to meet the state and federal ambient air quality standards (21). AQMPs are updated regularly in order to more effectively reduce 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 3.9.

2.9 REGIONAL AIR QUALITY IMPROVEMENT

The Project is within the jurisdiction of the SCAQMD. In 1976, California adopted the Lewis Air Quality Management Act which created SCAQMD from a voluntary association of air pollution control districts in Los Angeles, Orange, Riverside, and San Bernardino counties. The geographic area of which SCAQMD consists is known as the SCAB. SCAQMD develops comprehensive plans and regulatory programs for the region to attain federal standards by dates specified in federal law. The agency is also responsible for meeting state standards by the earliest date achievable, using reasonably available control measures.

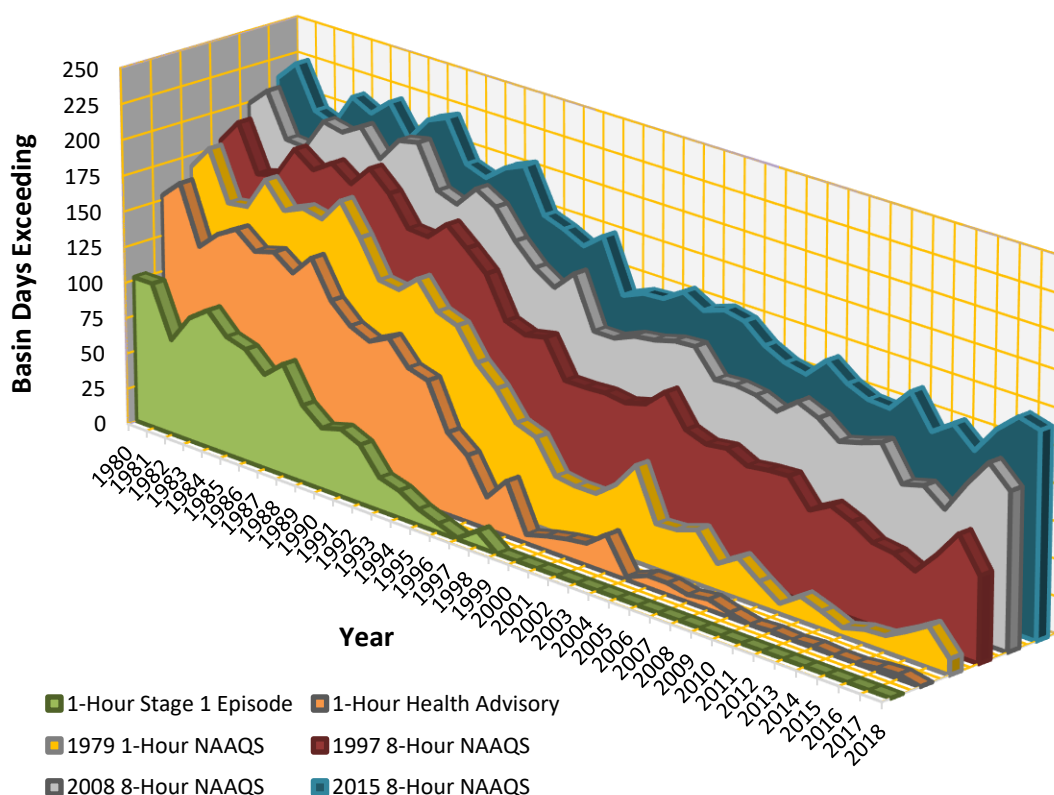
SCAQMD rule development through the 1970s and 1980s resulted in dramatic improvement in SCAB air quality. Nearly all control programs developed through the early 1990s relied on (i) the development and application of cleaner technology; (ii) add-on emission controls, and (iii) uniform CEQA review throughout the SCAB. Industrial emission sources have been significantly reduced by this approach and vehicular emissions have been reduced by technologies implemented at the state level by CARB.

As discussed above, the SCAQMD is the lead agency charged with regulating air quality emission reductions for the entire SCAB. SCAQMD created AQMPs which represent a regional blueprint

for achieving healthful air on behalf of the 16 million residents of the SCAB. The 2012 AQMP states, “the remarkable historical improvement in air quality since the 1970’s is the direct result of Southern California’s comprehensive, multiyear strategy of reducing air pollution from all sources as outlined in its AQMPs,” (22).

Emissions of O₃, NO_x, VOC, and CO have been decreasing in the SCAB since 1975 and are projected to continue to decrease through 2020 (23). These decreases result primarily from motor vehicle controls and reductions in evaporative emissions. Although vehicle miles traveled (VMT) in the SCAB continue to increase, NO_x and VOC levels are decreasing because of the mandated controls on motor vehicles and the replacement of older polluting vehicles with lower-emitting vehicles. NO_x emissions from electric utilities have also decreased due to use of cleaner fuels and renewable energy. O₃ contour maps show that the number of days exceeding the 8-hour NAAQS has decreased between 1997 and 2007. In the 2007 period, there was an overall decrease in exceedance days compared with the 1997 period. However, as shown on Table 2-5, O₃ levels have increased in the past two years due to higher temperatures and stagnant weather conditions. Notwithstanding, O₃ levels in the SCAB have decreased substantially over the last 30 years with the current maximum measured concentrations being approximately one-third of concentrations within the late 70’s (24).

TABLE 2-5: SCAB O₃ TREND

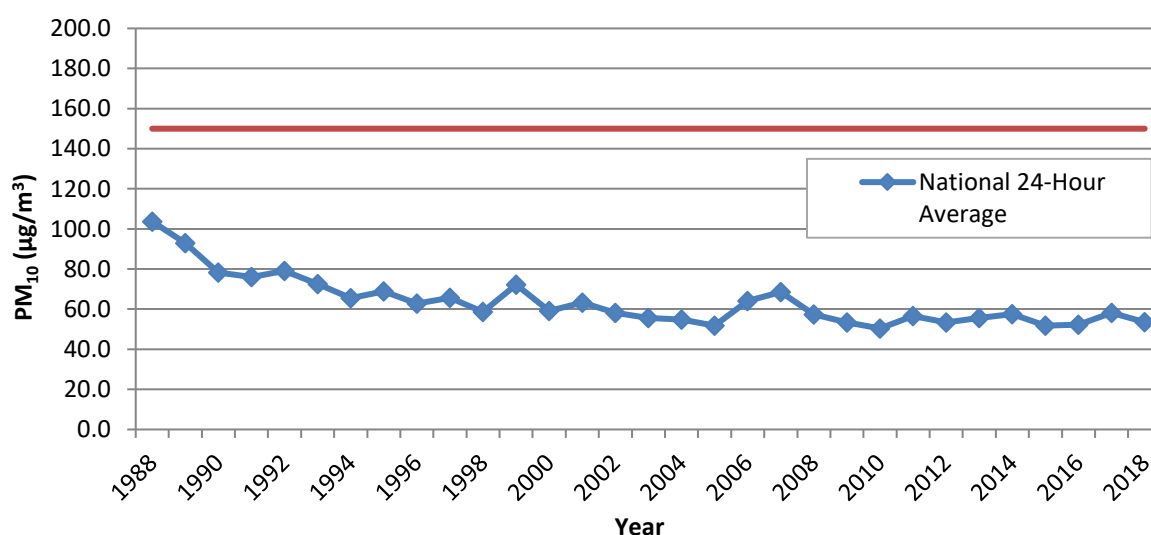


Source: SCAQMD

The overall trends of PM₁₀ and PM_{2.5} levels in the air (not emissions) show an overall improvement since 1975. Direct emissions of PM₁₀ have remained somewhat constant in the SCAB and direct emissions of PM_{2.5} have decreased slightly since 1975. Area wide sources (fugitive dust from roads, dust from construction and demolition, and other sources) contribute the greatest amount of direct particulate matter emissions.

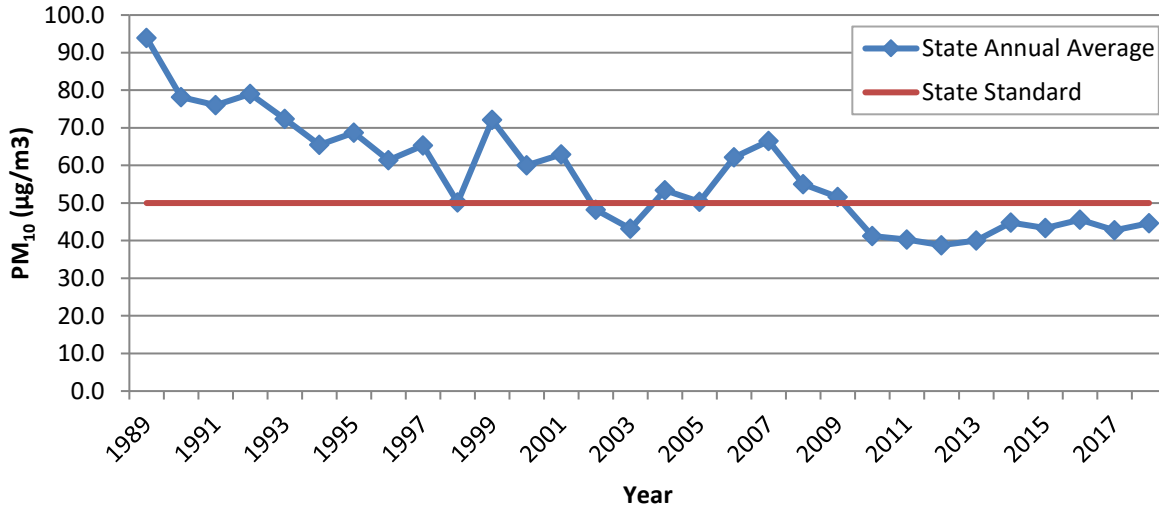
As with other pollutants, the most recent PM₁₀ statistics show an overall improvement as illustrated in Tables 2-6 and 2-7. During the period for which data are available, the 24-hour national annual average concentration for PM₁₀ decreased by approximately 48 percent, from 103.7 µg/m³ in 1988 to 53.5 µg/m³ in 2018 (25). Although the values are below the federal standard, it should be noted that there are days within the year where the concentrations will exceed the threshold. The 24-hour state annual average for emissions for PM₁₀, have decreased by approximately 53 percent since 1988 (25). Although data in the late 1990's show some variability, this is probably due to the advances in meteorological science rather than a change in emissions. Similar to the ambient concentrations, the calculated number of days above the 24-hour PM₁₀ standards has also shown an overall drop.

TABLE 2-6: SCAB AVERAGE 24-HOUR CONCENTRATION PM₁₀ TREND (BASED ON FEDERAL STANDARD)¹



Source: CARB

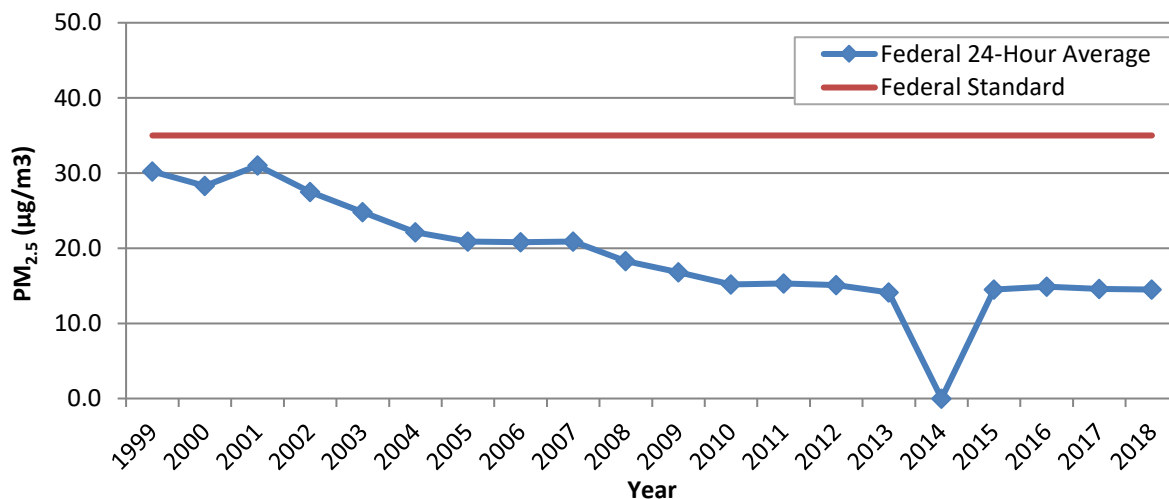
¹ Some year have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

TABLE 2-7: SCAB ANNUAL AVERAGE CONCENTRATION PM₁₀ TREND (BASED ON STATE STANDARD)¹

Source: CARB

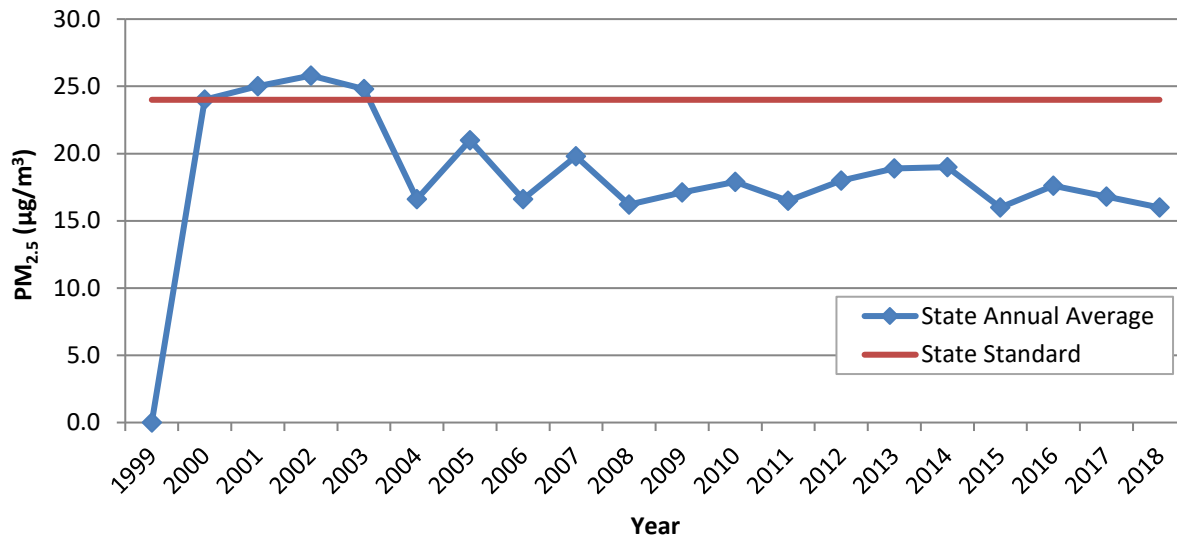
¹ Some year have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

Tables 2-8 and 2-9 shows the most recent 24-hour average PM_{2.5} concentrations in the SCAB from 1999 through 2018. Overall, the national and state annual average concentrations have decreased by almost 52 percent and 33 percent respectively (25). It should be noted that the SCAB is currently designated as nonattainment for the state and federal PM_{2.5} standards.

TABLE 2-8: SCAB 24-HOUR AVERAGE CONCENTRATION PM_{2.5} TREND (BASED ON FEDERAL STANDARD)¹

Source: CARB

¹ Some year have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

TABLE 2-9: SCAB ANNUAL AVERAGE CONCENTRATION PM_{2.5} TREND (BASED ON STATE STANDARD)¹

Source: CARB

¹ Some years have been omitted from the table as insufficient data (or no) data has been reported. Years with reported value of "0" have also been omitted.

While the 2012 AQMP PM₁₀ attainment demonstration and the 2015 associated supplemental SIP submission indicated that attainment of the 24-hour standard was predicted to occur by the end of 2015, it could not anticipate the effect of the ongoing drought on the measured PM_{2.5}.

The 2006 to 2010 base period used for the 2012 attainment demonstration had near-normal rainfall. While the trend of PM_{2.5}-equivalent emission reductions continued through 2015, the severe drought conditions contributed to the PM_{2.5} increases observed after 2012. As a result of the disrupted progress toward attainment of the federal 24-hour PM_{2.5} standard, SCAQMD submitted a request and the EPA approved, in January 2016, a "bump up" to the nonattainment classification from "moderate" to "serious," with a new attainment deadline as soon as practicable, but not beyond December 31, 2019.

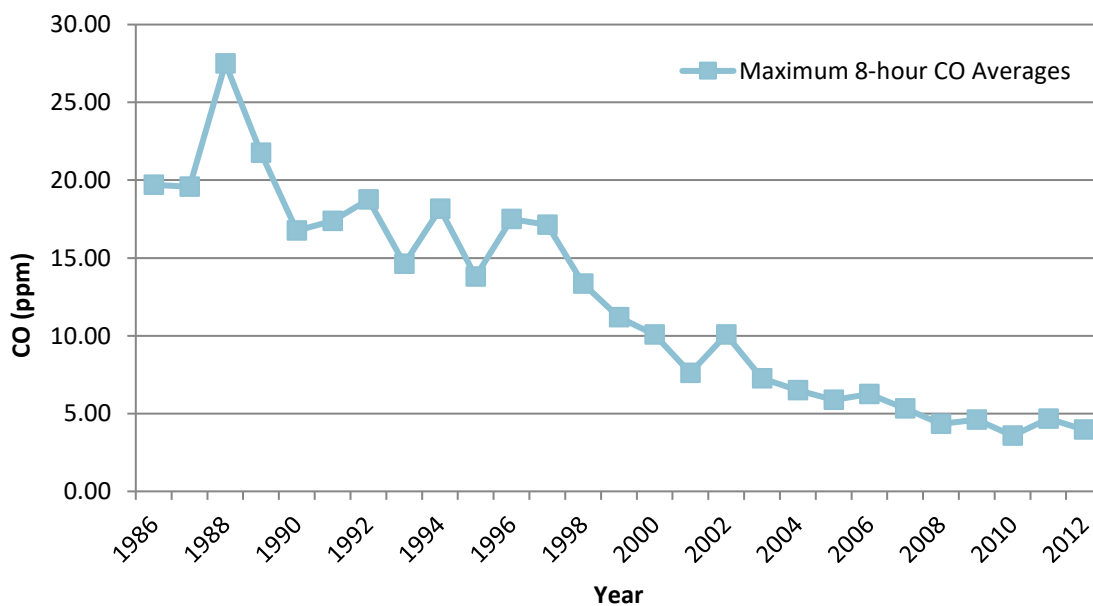
In March 2017, the AQMD released the Final 2016 AQMP. The 2016 AQMP continues to evaluate current integrated strategies and control measures to meet the NAAQS, as well as, explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (26). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) and updated emission inventory methodologies for various source categories (21).

The most recent CO concentrations in the SCAB are shown in Table 2-10 (25). CO concentrations in the SCAB have decreased markedly — a total decrease of more about 80 percent in the peak 8-hour concentration since 1986. It should be noted 2012 is the most recent year where 8-hour CO averages and related statistics are available in the SCAB. The number of exceedance days has also declined. The entire SCAB is now designated as attainment for both the state and national

CO standards. Ongoing reductions from motor vehicle control programs should continue the downward trend in ambient CO concentrations.

Part of the control process of the SCAQMD's duty to greatly improve the air quality in the SCAB is the uniform CEQA review procedures required by SCAQMD's CEQA Handbook (27). The single threshold of significance used to assess Project direct and cumulative impacts has in fact "worked" as evidenced by the track record of the air quality in the SCAB dramatically improving over the course of the past decades. As stated by the SCAQMD, the District's thresholds of significance are based on factual and scientific data and are therefore appropriate thresholds of significance to use for this Project.

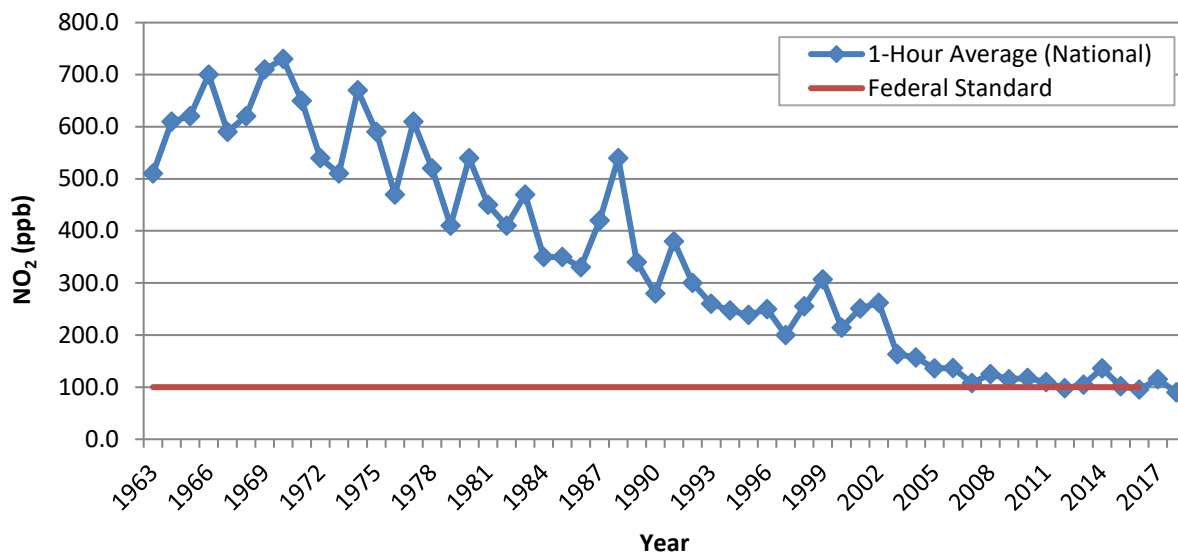
TABLE 2-10: SCAB 24-HOUR AVERAGE CONCENTRATION CO TREND¹



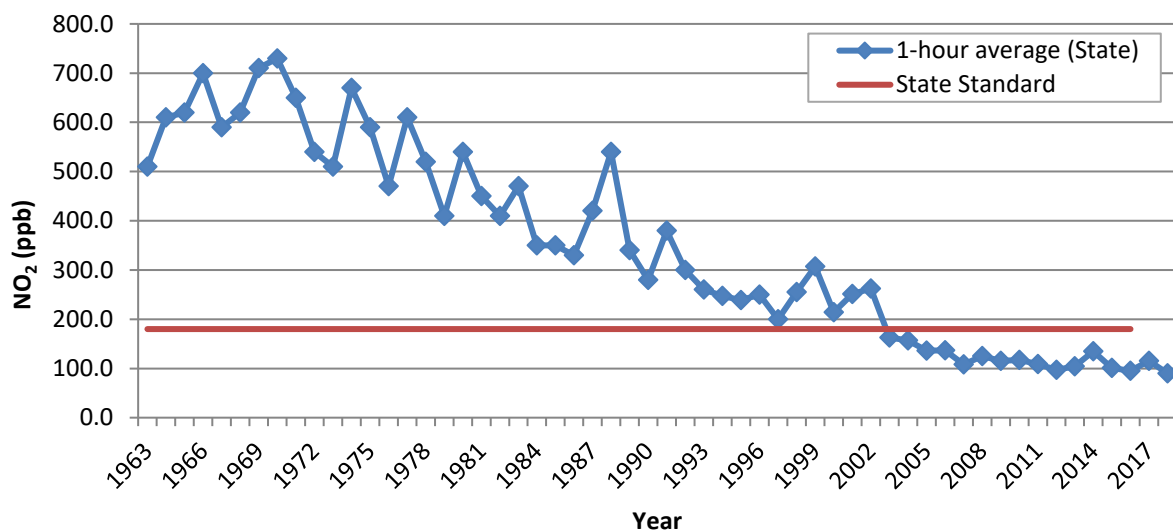
Source: CARB

¹ The most recent year where 8-hour concentration data is available is 2012.

The most recent NO₂ data for the SCAB is shown in Tables 2-11 and 2-12 (25). Over the last 50 years, NO₂ values have decreased significantly; the peak 1-hour national and state averages for 2018 is approximately 82 percent lower than what it was during 1963. The SCAB attained the State 1-hour NO₂ standard in 1994, bringing the entire state into attainment. A new state annual average standard of 0.030 parts per million was adopted by the ARB in February 2007 (28). The new standard is just barely exceeded in the SCAQMD. NO₂ is formed from NO_x emissions, which also contribute to O₃. As a result, the majority of the future emission control measures will be implemented as part of the overall ozone control strategy. Many of these control measures will target mobile sources, which account for more than three-quarters of California's NO_x emissions. These measures are expected to bring the SCAQMD into attainment of the state annual average standard.

TABLE 2-11: SCAB 1-HOUR AVERAGE CONCENTRATION NO₂ TREND (BASED ON FEDERAL STANDARD)

Source: CARB

TABLE 2-12: SCAB 1-HOUR AVERAGE CONCENTRATION NO₂ TREND (BASED ON STATE STANDARD)

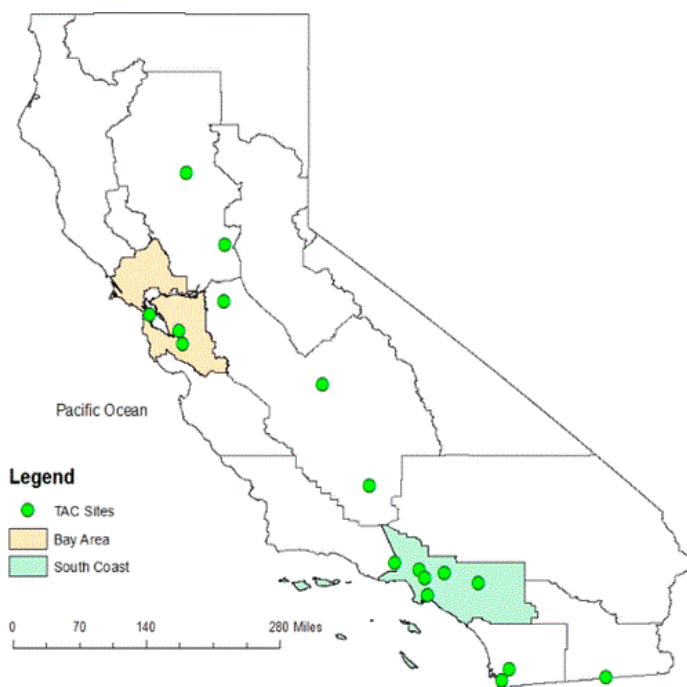
Source: CARB

The American Lung Association website includes data collected from state air quality monitors that are used to compile an annual State of the Air Report. The latest State of the Air Report compiled for the SCAB was in 2018 (29). As noted in this report, air quality in the SCAB has significantly improved in terms of both pollution levels and high pollution days over the past three decades. The area's average number of high O₃ days dropped from 230 days in the initial 2000 State of the Air report (1996–1998) to 146 days in the 2018 report. The region has also seen dramatic reduction in particle pollution since the initial 2000 State of the Air report (29).

TOXIC AIR CONTAMINANTS (TACs) TRENDS

In 1984, as a result of public concern for exposure to airborne carcinogens, the CARB adopted regulations to reduce the amount of air toxic contaminant emissions resulting from mobile and area sources, such as cars, trucks, stationary products, and consumer products. According to the *Ambient and Emission Trends of Toxic Air Contaminants in California* journal article (30) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene, and 1,3-butadiene; those that are derived from stationary sources: perchloroethylene and hexavalent chromium; and those derived from photochemical reactions of emitted VOCs: formaldehyde and acetaldehyde³. TACs data was gathered at monitoring sites from both the Bay Area and SCAB, as shown on Exhibit 2-A; Several of the sites in the SCAB include Reseda, Compton, Rubidoux, Burbank, and Fontana. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

EXHIBIT 2-A: CALIFORNIA TOXIC AIR CONTAMINANT SITES



Source: CARB

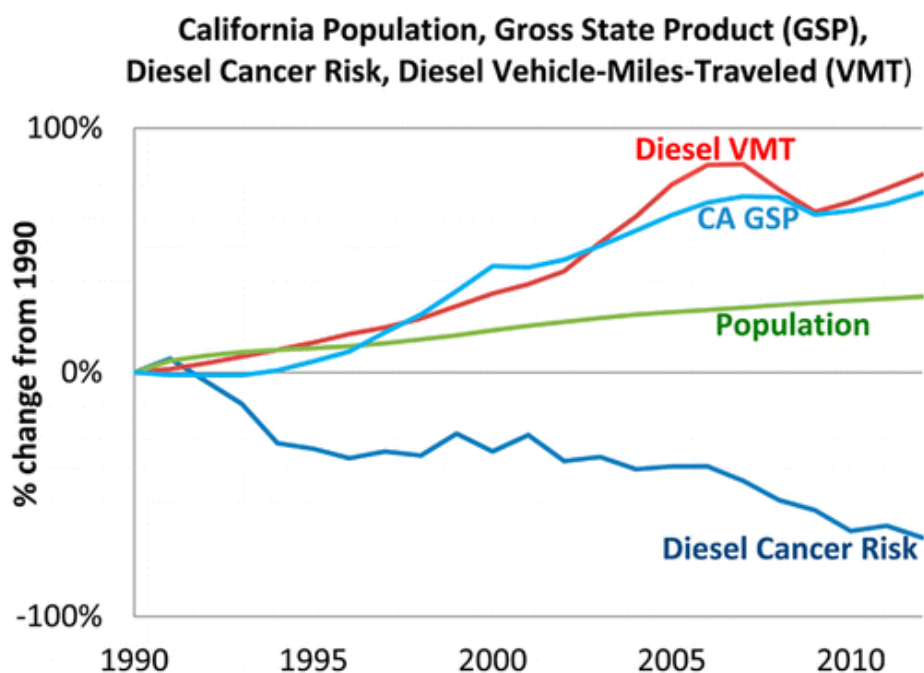
³ It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.

Mobile Source TACs

CARB introduced two programs that aimed at reducing mobile emissions for light and medium duty vehicles through vehicle emissions controls and cleaner fuel. In California, light-duty vehicles sold after 1996 are equipped with California's second-generation On-Board Diagnostic (OBD-II) system. The OBD-II system monitors virtually every component that can affect the emission performance of the vehicle to ensure that the vehicle remains as clean as possible over its entire life and assists repair technicians in diagnosing and fixing problems with the computerized engine controls. If a problem is detected, the OBD-II system illuminates a warning lamp on the vehicle instrument panel to alert the driver. This warning lamp typically contains the phrase Check Engine or Service Engine Soon. The system will also store important information about the detected malfunction so that a repair technician can accurately find and fix the problem. ARB has recently developed similar OBD requirements for heavy-duty vehicles over 14,000 lbs. CARB's phase II Reformulated Gasoline Regulation (RFG-2), adopted in 1996, also led to a reduction of mobile source emissions. Through such regulations, benzene levels declined 88% from 1990-2012. 1,3-Butadiene concentrations also declined 85% from 1990-2012 as a result of the use of reformulated gasoline and motor vehicle regulations (30).

In 2000, CARB's Diesel Risk Reduction Plan (DRRP) recommended the replacement and retrofit of diesel-fueled engines and the use of ultra-low-sulfur (<15ppm) diesel fuel. As a result of these measures, DPM concentrations have declined 68% since 2000, even though the state's population increased 31% and the amount of diesel vehicles miles traveled increased 81%, as shown on Exhibit 2-B. With the implementation of these diesel-related control regulations, ARB expects a DPM decline of 71% for 2000-2020.

EXHIBIT 2-B: DIESEL PARTICULATE MATTER AND DIESEL VEHICLE MILES TREND



Source: CARB

DIESEL REGULATIONS

The CARB and the Ports of Los Angeles and Long Beach (POLA and POLB) have adopted several iterations of regulations for diesel trucks that are aimed at reducing DPM. More specifically, the CARB Drayage Truck Regulation (31), the CARB statewide On-road Truck and Bus Regulation (32), and the Ports of Los Angeles and Long Beach “Clean Truck Program” (CTP) require accelerated implementation of “clean trucks” into the statewide truck fleet (33). In other words, older more polluting trucks will be replaced with newer, cleaner trucks as a function of these regulatory requirements.

Moreover, the average statewide DPM emissions for Heavy Duty Trucks (HDT), in terms of grams of DPM generated per mile traveled, will dramatically be reduced due to the aforementioned regulatory requirements.

Diesel emissions identified in this analysis would therefore overstate future DPM emissions since not all the regulatory requirements are reflected in the modeling.

CANCER RISK TRENDS

Based on information available from CARB, overall cancer risk throughout the SCAB has had a declining trend since 1990. In 1998, following an exhaustive 10-year scientific assessment process, CARB identified particulate matter from diesel-fueled engines as a toxic air contaminant. The SCAQMD initiated a comprehensive urban toxic air pollution study called the Multiple Air Toxics Exposure Study (MATES). DPM accounts for more than 70 percent of the cancer risk.

In 2008 the SCAQMD prepared an update to the MATES-II study, referred to as MATES-III. MATES-III estimates the average excess cancer risk level from exposure to TACs is an approximately 17% decrease in comparison to the MATES-II study.

In 2015, the SCAQMD published an in-depth analysis of the toxic air contaminants and the resulting health risks for all of Southern California. The *Multiple Air Toxics Exposure Study in the SCAB, MATES IV*, which shows that cancer risk has decreased less than 50% since MATES III (2005) (34).

MATES-IV study represents the baseline health risk for a cumulative analysis. MATES-IV calculated cancer risks based on monitoring data collected at ten fixed sites within the SCAB. None of the fixed monitoring sites are within the local area of the Project site. However, MATES-IV has extrapolated the excess cancer risk levels throughout the SCAB by modeling the specific grids. MATES-IV modeling predicted an excess cancer risk of 675.86 in one million for the Project area. DPM is included in this cancer risk along with all other TAC sources. DPM accounts for 68% of the total risk shown in MATES-IV. Cumulative Project generated TACs are limited to DPM.

In January 2018, as part of the overall effort to reduce air toxics exposure in the SCAB, SCAQMD began conducting the MATES V Program. MATES V field measurements will be conducted over a one-year period at ten fixed sites (the same sites selected for MATES III and IV) to assess trends in air toxics levels. MATES V will also include measurements of ultrafine particles (UFP) and black carbon (BC) concentrations, which can be compared to the UFP levels measured in MATES IV

(35). The final report for the MATES V study is currently expected to be available in Fall 2019, however no definitive date has been provided.

2.10 EXISTING PROJECT SITE AIR QUALITY CONDITIONS

The Project site is currently vacant and as such, existing air quality conditions at the Project site would generally reflect ambient monitored conditions previously presented previously at Table 2-3.

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3 PROJECT AIR QUALITY IMPACT

3.1 INTRODUCTION

The Project has been evaluated to determine if it will violate an air quality standard or contribute to an existing or projected air quality violation. Additionally, the Project has been evaluated to determine if it will result in a cumulatively considerable net increase of a criteria pollutant for which the SCAB is non-attainment under an applicable federal or state ambient air quality standard. The significance of these potential impacts is described in the following section.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the Initial Study Checklist in Appendix G of the State CEQA Guidelines (14 California Code of Regulations §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (36):

- 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 developed regional significance thresholds for regulated pollutants, as summarized at Table 3-1 (37). 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 EMISSIONS THRESHOLDS

Pollutant	Construction	Operations
Regional 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
CO	550 lbs/day	550 lbs/day
Lead	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day

Source: Regional Thresholds presented in this table are based on the SCAQMD Air Quality Significance Thresholds, April 2019

3.3 CALIFORNIA EMISSIONS ESTIMATOR MODEL™ EMPLOYED TO ANALYZE AIR QUALITY

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

On October 17, 2017, the SCAQMD in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the California Emissions Estimator Model™ (CalEEMod™) v2016.3.2. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_x, SO_x, CO, PM₁₀, and PM_{2.5}) and greenhouse gas (GHG) emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (38). CalEEMod utilizes widely accepted models for emissions estimates combined with default data that can be used if site-specific information is not available. It should be noted that a majority of the default data associated with locations and land use is based on surveys of existing land uses. Caution should be taken if the project deviates significantly from the types and features included in the survey that forms the evidence supporting the default data (39). 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 both construction and operational activity are provided in Appendix 3.1 through 3.4.

3.4 CONSTRUCTION EMISSIONS

Construction activities 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:

- Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site#1
- Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site#3
- Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site#4
- Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site#5
- Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site#2
- Project Site Grading (Post Dirt Import)
- Building Construction
- Paving
- Architectural Coating

Construction is expected to commence in June 2021 and will last until December 2022. Construction duration by phase is shown on Table 3-2. The construction schedule utilized in the analysis represents a “worst-case” analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis

year increases due to emission regulations becoming more stringent.⁴ The duration of construction activity and associated construction equipment were based on information provided by the Project Applicant; the Project Applicant has relied upon its extensive experience in constructing similar types of projects. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per CEQA guidelines. Site specific construction fleet may vary due to specific project needs at the time of construction. Please refer to specific detailed modeling inputs/outputs contained in Appendix 3.1 of this analysis. A detailed summary of construction equipment assumptions by phase is provided at Table 3-3.

TABLE 3-2: CONSTRUCTION DURATION

Phase Name	Start Date	End Date	Days
Soil Import and Grading Activity			
Project Site Grading and Concurrent Dirt Import and Grading from Excess Fill Site #1	06/11/2022	08/26/2022	55
Project Site Grading and Concurrent Dirt Import and Grading from Excess Fill Site #3	08/27/2022	09/27/2022	22
Project Site Grading and Concurrent Dirt Import and Grading from Excess Fill Site #4	09/28/2022	10/26/2022	21
Project Site Grading and Concurrent Dirt Import and Grading from Excess Fill Site #5	10/27/2022	11/10/2022	11
Project Site Grading and Concurrent Dirt Import and Grading from Excess Fill Site #2	11/11/2022	11/18/2022	6
Project Site Construction Process			
On-Site Grading (Post Dirt Import)	11/19/2022	02/10/2023	60
Building Construction	02/11/2023	12/15/2023	220
Paving	07/15/2023	12/15/2023	110
Architectural Coating	03/25/2023	12/15/2023	190

⁴ As shown in the California Emissions Estimator Model (CalEEMod) User's Guide Version 2016.3.2, Section 4.3 "OFFROAD Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 3-3: CONSTRUCTION EQUIPMENT ASSUMPTIONS (1 OF 2)

Activity	Equipment	Number	Hours Per Day
Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Sites #1-5			
Project Site Rough Grading	Scrapers	5	8
	Loader	1	8
	Water Pull*	1	8
	Tractor	1	8
	Blade*	1	8
Equipment at Excess Fill Sites #1-5	Excavators	2	8
	Water Truck**	1	8
	Blade*	1	8
	Street Sweeper*	1	8
Project Site Construction Process			
On-Site Grading (Post Dirt Import)	Scrapers	5	8
	Loader	1	8
	Water Pull*	1	8
	Tractor	1	8
	Blade*	1	8
Building Construction	Cranes	1	8
	Forklifts	3	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

* = CalEEMod does not provide an extensive list of equipment operations. As such, equipment not included in CalEEMod will be modeled as "Other Construction Equipment".

** = Water trucks used during construction are counted in the vendor trips consistent with CalEEMod guidance (CalEEMod User's Tips, 2018). As such, water trucks will not be modeled as off-road equipment in CalEEMod.

EXCESS FILL DIRT SITES

Dust is typically a major concern during rough grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called “fugitive emissions”. Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). The CalEEMod model was utilized to calculate fugitive dust emissions resulting from this phase of activity.

The approximate 96.9-acre Project site is located at the southeast corner of Mountain Avenue and Bickmore Avenue in the City of Chino and is generally below 566 feet above mean sea level, i.e., the “566 Elevation”. In order for the Project to be able to be constructed and occupied, it requires that dirt be imported to raise the proposed building Finish Floor elevations so that they are 567-feet above mean sea level. To accomplish this, five nearby borrow sites (or “Excess Fill Dirt Sites”) have been identified that can provide export to be used as import for the Project. The order in which soil will be imported from the Excess Fill Dirt Sites is as follows (Exhibit 1-A, previously presented identifies the disturbance area for each borrow site).

- Excess Fill Dirt Site #1 (Site #1) – an approximate 43-acre parcel located 1.30 roadway miles from the Project site at the southeast corner of Euclid Avenue and Pine Avenue.
- Excess Fill Dirt Site #3 (Site #3) – an approximate 84-acre parcel located 3.00 roadway miles from the Project site on the west side of Cucamonga Avenue, south of the California Institution for Women.
- Excess Fill Dirt Site #4 (Site #4) – an approximate 11-acre parcel located 3.60 roadway miles from the Project site at the southeast corner of Chino Corona Road and East County Road.
- Excess Fill Dirt Site #5 (Site #5) – an approximate 29-acre parcel located 4.20 roadway miles from the Project site north of Chino Corona Road on the west side of Hellman Avenue.
- Excess Fill Dirt Site #2 (Site #2) – an approximate 38-acre parcel located 1.50 roadway miles from the Project site at the southeast corner of Johnson Avenue and Pine Avenue.

It is our understanding that import activities from the Excess Fill Dirt Sites will not overlap with another (i.e., hauling activity at one site is independent from other sites). Soil import activity could occur during typical construction daytime (7:00 AM – 3:00 PM) or off-peak/nighttime (6:00 PM – 2:00 AM) hours. Notwithstanding, the off-road construction equipment is not anticipated to operate for more than 8 hours per day. Exhibits 3-A and 3-B show the truck distribution used in the *Traffic Impact Analysis* and the associated Excess Fill Dirt Sites.

Construction of the Project will require the import of approximately 608,896 cubic yards of soil. The sum total dirt available for export to the Project site from Excess Fill Dirt Sites 1, 3, and 4 is approximately 786,994 gross cubic yards. Since only approximately 608,896 cubic yards of soil is needed at the Project Site, Excess Fill Dirt Sites 1, 3, and 4 are predicted to provide sufficient dirt needed for the Project Site. If additional dirt is needed, dirt is available at Excess Fill Dirt Sites 5 and 2. As such, the analysis herein models up to 940,351 cubic yards of soil import at up to 5 borrow sites (Excess Fill Dirt Sites 1, 3, 4, 5, and 2) as a conservative measure. It is estimated that 526-673 haul truck loads will be required per day for the duration of soil import activities. Each truck load will generate one inbound and one outbound trip, accounting for a total of two truck trips per load of material imported. Thus, a total of 1,052 to 1,346 haul truck trips (two-way) per day will be

EXHIBIT 3-A: EXCESS FILL DIRT SITE LOCATION MAP (1 OF 2)

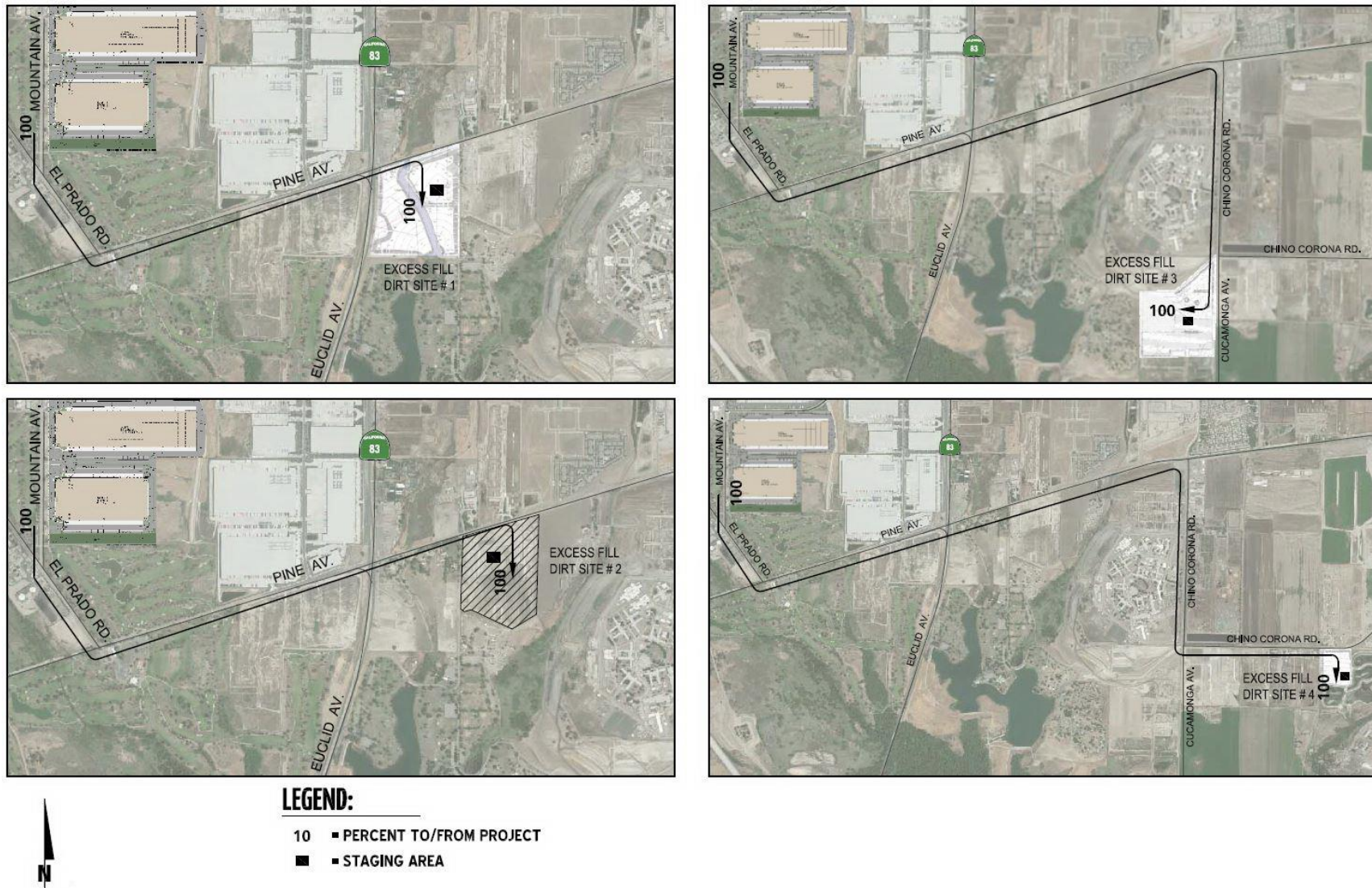


EXHIBIT 3-B: EXCESS FILL DIRT SITE LOCATION MAP (2 OF 2)



LEGEND:

- 10 ■ PERCENT TO/FROM PROJECT
- ■ STAGING AREA



generated, which translates to approximately 132-168 haul truck trips (two-way) per hour (see Table 3-4). In the event that soil import activity is to occur during peak traffic periods, hauling activity should be limited to no more than 16 trucks trips per hour (8 trucks in and 8 trucks out) during the hours of 6:00 AM to 9:00 AM and 3:00 PM to 6:00 PM to ensure that haul activity would not significantly impact study area intersections along the haul route.

As shown on Table 3-4, the following cubic yards of soil will be imported to the site from each of the Excess Fill Dirt Sites:

- Site #1: 462,518 cubic yards of soil over 55 days
- Site #3: 156,222 cubic yards of soil over 22 days
- Site #4: 168,254 cubic yards of soil over 21 days
- Site #5: 98,867 cubic yards of soil over 11 days
- Site #2: 54,490 cubic yards of soil over 6 days

The soil import values shown above are the maximum that have been considered for the purposes of this assessment. Actual import of soil may be less than those shown above.

Construction emissions for construction worker vehicles traveling to and from the Project site, as well as vendor trips (construction materials delivered to the Project site) were estimated based on information from the Project Applicant and the CalEEMod model.

TABLE 3-4: IMPORT OPERATION BY EXCESS FILL DIRT SITE

Site	Nighttime Hauling		Daytime Hauling		Excess Fill Dirt (CY of Import)	Trucks Per Day (one-way) ¹	Total Trucks per Hour ²	Two-way Truck Trips per Hour ³
	Hours	Duration	Hours ⁴	Duration				
1	6:00 PM to 2:00 AM	55 Nights	7:00 AM to 3:00 PM	55 Days	462,518	623	78	156
3	6:00 PM to 2:00 AM	22 Nights	7:00 AM to 3:00 PM	22 Days	156,222	526	66	132
4	6:00 PM to 2:00 AM	21 Nights	7:00 AM to 3:00 PM	21 Days	168,254	593	74	148
5	6:00 PM to 2:00 AM	11 Nights	7:00 AM to 3:00 PM	11 Days	98,867	666	83	166
2	6:00 PM to 2:00 AM	6 Nights	7:00 AM to 3:00 PM	6 Days	54,490	673	84	168

¹ [Excess Fill Dirt / Duration] / 13.5 cubic yards per truck

² [Trucks Per Day / 8 hours]

³ [Trucks Per Day / 8 hours] x 2 trips (one trip in and one trip out)

⁴ In order to keep traffic impacts to less than significant during the AM peak hour, the Project shall limit trips to less than 50 two-way peak hour trips during the hours of 7:00 AM to 9:00 AM.

3.3.1 CONSTRUCTION EMISSIONS SUMMARY

Impacts without Mitigation

The SCAQMD Rules that are currently applicable during construction activity for this Project include Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). As such, credit for Rule 403 and Rule 1113 have been taken in the air quality modeling herein.

The estimated maximum daily construction emissions without mitigation are summarized on Table 3-5. Detailed construction model outputs are presented in Appendix 3.1. Under the assumed scenarios, emissions resulting from the Project construction will exceed thresholds established by the SCAQMD for emissions of NO_x during construction activity.

TABLE 3-5: SUMMARY OF CONSTRUCTION EMISSIONS (WITHOUT MITIGATION)

Year	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
2021 (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #1)	10.92	229.04	88.08	0.37	8.04	4.25
2021 (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #3)	10.78	217.07	87.17	0.39	9.36	4.64
2021 (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #4)	11.31	238.44	90.60	0.45	10.42	4.96
2021 (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #5)	11.90	262.05	94.42	0.51	11.67	5.32
2021 (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #2)	11.23	242.29	90.06	0.40	8.44	4.36
2021 (Project Site Construction Process)	2.48	23.40	29.94	0.05	3.53	1.40
2022 (Project Site Construction Process)	68.45	99.12	127.59	0.47	30.19	9.31
Maximum Daily Emissions	68.45	262.05	127.59	0.51	30.19	9.31
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	NO	YES	NO	NO	NO	NO

Impacts with Mitigation

Detailed construction model outputs are presented in Appendix 3.2. Under the assumed scenarios, emissions resulting from the Project construction will still exceed thresholds established by the SCAQMD for emissions of NO_x. The NO_x exceedance is primarily due to hauling truck trips related to soil import activity. As discussed above, the soil importation is required in order for the Project to be constructed and occupied, and thus must occur and the amount of soil importation cannot be reduced. MM AQ-1 is recommended to reduce NO_x emissions to the maximum extent possible. However, since neither the Project Applicant nor the City have regulatory authority to control tailpipe emissions, no additional feasible mitigation measures exist that would reduce NO_x emissions to levels that are less-than-significant, thus NO_x emissions during construction are considered significant and unavoidable.

TABLE 3-6: SUMMARY OF CONSTRUCTION EMISSIONS (WITH MITIGATION)⁵

Year	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
2021 (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #1)	6.38	204.73	98.19	0.37	6.94	3.44
2021 (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #3)	6.24	192.75	97.29	0.39	8.27	3.84
2021 (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #4)	6.76	214.12	100.72	0.45	9.32	4.15
2021 (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #5)	7.35	237.74	104.54	0.51	10.57	4.52
2021 (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #2)	6.68	217.98	100.18	0.40	7.34	3.56
2021 (Project Site Construction Process)	1.21	21.74	34.65	0.05	3.45	1.41
2022 (Project Site Construction Process)	66.47	97.67	132.02	0.47	30.34	9.56
Maximum Daily Emissions	66.47	237.74	132.02	0.51	30.34	9.56
SCAQMD Regional Threshold	75	100	550	150	150	55
Threshold Exceeded?	NO	YES	NO	NO	NO	NO

3.5 OPERATIONAL EMISSIONS

Operational activities associated with the proposed Project will result in emissions of VOCs, NO_x, SO_x, CO, PM₁₀, and PM_{2.5}. Operational emissions would be expected from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- On-site Equipment Emissions

3.5.1 AREA SOURCE EMISSIONS

Architectural Coatings

Over a period of time the buildings that are part of this Project will be subject to emissions resulting from the evaporation of solvents contained in paints, varnishes, primers, and other

⁵ The emission rates for the off-road equipment used during construction (without mitigation) are based on statewide fleet mix from CARB's off-road inventory model per year and HP range (Table 3.4 in Appendix D of the User's Guide). Mitigated (Tiered engine emission factors) (Table 3.5 in Appendix D of the User's Guide) are based on Carl Moyer standards to qualify for a particular tier that may be chosen to mitigate engine emissions. In some instances, the statewide fleet mix average for a particular equipment type, year, and HP may be lower than the engine tier standard generating higher mitigated emissions. (Source: CalEEMod User Tips #38). Therefore, although Table 3-5 indicates an increase in CO emissions after implementation of mitigation, it should be noted that this increase in CO is due to a modified calculation procedure in CalEEMod. For consistency purposes with the CalEEMod outputs, the emissions presented in Table 3-5 reflect the CalEEMod outputs.

surface coatings as part of Project maintenance. The emissions associated with architectural coatings were calculated using the CalEEMod model.

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 the CalEEMod model.

Landscape Maintenance Equipment

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shredders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. The emissions associated with landscape maintenance equipment were calculated based on assumptions provided in the CalEEMod model.

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 (RECLAIM⁶) for generation within the SCAB, criteria pollutant emissions from offsite generation of electricity is generally excluded from the evaluation of significance and only natural gas use is considered. The emissions associated with natural gas use were calculated using the CalEEMod model.

Title 24 Energy Efficiency Standards

California's Energy Efficiency Standards for Residential and Nonresidential Buildings 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. Energy efficient buildings require less electricity. The 2019 version of Title 24 was adopted by the CEC and will become effective on January 1, 2020. As a conservative measure, the analysis herein assumes compliance with the 2016 Title 24 Standards and no additional reduction for compliance with the 2019 standards have been taken.

3.5.3 MOBILE SOURCE EMISSIONS

Vehicles

Project-related operational air quality impacts derive predominantly from mobile sources. In this regard, approximately 83 percent (by weight) of all Project operational-source emissions would

⁶ The Regional Clean Air Incentives Market (RECLAIM) is a program that has the potential to improve air quality by harnessing the power of the marketplace by means of greater flexibility and financial incentives for businesses (52).

be generated by mobile sources (vehicles). Neither the Project Applicant nor the City has any regulatory control over these tail pipe emissions. Rather, vehicle tail pipe source emissions are regulated by CARB and USEPA. As summarized previously herein, as the result of CARB and USEPA actions, basin-wide vehicular-source emissions have been reduced dramatically over the past years and are expected to further decline as clean vehicle and fuel technologies improve.

The Project related operational air quality impacts derive primarily from vehicle trips generated by the Project. Trip characteristics available from the TIA were utilized in this analysis (5). Per the TIA, the Project is expected to generate a net total of approximately 4,440 trip-ends per day (actual vehicles) (5). The net Project trip generation includes 824 truck trip-ends per day from the proposed building within the Project site. The truck fleet for the proposed industrial uses are broken down by truck type (or axle type).

3.5.3.1 Trip Length

Trip lengths for passenger cars and trucks were determined based on the regional traffic model. The San Bernardino Transportation Analysis Model (SBTAM) was used to estimate trip lengths for the Project's passenger cars and trucks.

More specifically, SBTAM was utilized to conduct select zone model runs for the proposed Project. SBTAM was prepared for the San Bernardino County Transportation Authority (formerly known as San Bernardino Association of Governments) as a sub-regional model based on Southern California Association of Governments (SCAG) model, which includes the entire SCAG region. Adjustments were made to the socio-economic data within the SBTAM (2040) traffic analysis zone (TAZ) where the Project is located to reflect the Project land use.

The Vehicle Miles Traveled (VMT) from/to the Project TAZ by vehicle type was calculated based on select zone model skims. The average trip length was calculated based on the model VMT and daily traffic flow by vehicle type. Based on SBTAM, the average trip length for trucks was calculated to be 31.82 miles and 26.18 miles for the High-Cube Fulfillment Center Warehouse (without Cold Storage) use and the High-Cube with Cold Storage use, respectively. The trip length for all other vehicles (passenger cars, small trucks, motorcycles, etc.) was calculated to be 14.50 miles for both uses.

The use of a travel demand model is supported by substantial evidence since the information contained in the model is specific to the region and for the land use type being proposed. Furthermore, the use of travel demand models is also a recommended practice that is being promoted by the Governor's Office of Planning and Research (OPR) in their updated CEQA guidelines with respect to Senate Bill (SB) 743. Specifically, the latest technical advisory documentation published by OPR (December 2018 see Page 30-31) (40) explicitly states that:

"...agencies can use travel demand models or survey data to estimate existing trip lengths and input those into sketch models such as CalEEMod to achieve more accurate results. Whenever possible, agencies should input localized trip lengths into a sketch model to tailor the analysis to the project location."

The procedure described by OPR in their SB 743 technical advisory is precisely the method that has been used to calculate trip lengths and consequently VMT for the Project.

Two separate model runs were utilized in order to more accurately model emissions resulting from vehicle operations. The first run analyzed passenger car emissions, which incorporated the SBTAM calculated trip length of 14.50 miles for passenger cars, an assumption of 100% primary trips, and a fleet mix of 62.06% Light-Duty-Auto vehicles (LDA), 4.19% Light-Duty Trucks (LDT1)⁷, 20.27% Light-Duty Trucks (LDT2)⁸, and 13.48% Medium-Duty Trucks (MDV). The second run analyzed truck emissions, which incorporated the SBTAM truck trip lengths of 31.82 miles and 26.18 miles for the High-Cube Fulfillment Center Warehouse (without Cold Storage) and the High-Cube Warehouse (with Cold Storage) use, respectively and an assumption of 100% primary trips. The truck fleet mix for the High-Cube Fulfillment Center Warehouse (without Cold Storage) is comprised of 2 different truck types: 2-4-axle and 5+-axle trucks. For purposes of analysis, it is assumed that 25 percent of the 2-4 axle trucks are light heavy duty (LHD), 25 percent are medium heavy duty (MHD), and the remaining 50 percent are heavy-heavy duty (HHD). As such, the following truck fleet mix was utilized in order to estimate the truck trip generation for the proposed High-Cube Fulfillment Center Warehouse (without Cold Storage) use: 10.62% 2-axle trucks, 10.62% 3-axle trucks, and 78.75% 4+-axle trucks. The truck fleet mix for the High-Cube Warehouse (with Cold Storage) use is comprised of 3 different truck types: 34.70% 2-axle trucks, 10.98% 3-axle trucks, and 54.32% 4+-axle trucks. The modeled truck fleet mix is based on the *Majestic Chino Heritage Traffic Impact Analysis* (TIA) (5).

Transport Refrigeration Units (TRUs)

In order to account for the possibility of refrigerated uses being accommodated in the Building 2, trucks accessing 100,000 square feet of Building 2 are assumed to also have transport refrigeration units (TRUs). Therefore, for modeling purposes 35 total daily trucks (one-way) are assumed to be trucks with TRUs. TRU emissions were calculated based on the OFFROAD2017, v.1.01⁹.

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 estimates for travel on paved roads were calculated using the CalEEMod model (39).

3.5.4 ON-SITE EQUIPMENT EMISSIONS

It is common for industrial warehouse buildings to require cargo handling equipment to move empty containers and empty chassis to and from the various pieces of cargo handling equipment that receive and distribute containers. The most common type of cargo handling equipment is the yard truck which is designed for moving cargo containers. Yard trucks are also known as yard goats, utility tractors (UTRs), hustlers, yard hostlers, and yard tractors. The cargo handling

⁷ Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

⁸ Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

⁹ https://www.arb.ca.gov/orion/?_ga=2.4648499.1024319819.1572983981-202269419.1565221424

equipment is assumed to have a horsepower (hp) range of approximately 175 hp to 200 hp. Based on the latest available information from SCAQMD (41); for example, high-cube warehouse projects typically have 3.6 yard trucks per million square feet of building space. For this particular Project, based on the maximum square footage of warehouse building space permitted by the proposed Project, on-site modeled operational equipment includes eight (8) 200 hp, non-diesel-powered yard tractors operating at 4 hours a day for 365 days of the year.

3.5.5 OPERATIONAL EMISSIONS SUMMARY

Impacts Without Mitigation

Operational-source emissions are summarized on Table 3-7. As indicated, the Project would exceed regional thresholds of significance established by the SCAQMD for emissions for VOCs and NO_x emissions. It is important to note that approximately 77 percent of VOC emissions are derived from consumer products. For analytical purposes, consumer products include cleaning supplies, aerosols, and other consumer products (4). As such, the Project Applicant cannot meaningfully control the use of consumer products by future building users via mitigation; thus, VOC emissions are considered significant and unavoidable as no feasible mitigation measure exists that would reduce this impact to less than significant levels. Additionally, it should be noted that 83 percent of the Project's NO_x emissions are derived from vehicle usage. Since neither the Project Applicant nor the City have regulatory authority to control tailpipe emissions, no feasible mitigation measures exist that would reduce NO_x emissions to levels that are less-than-significant. Thus, VOC and NO_x emissions are considered significant and unavoidable. The following mitigation measures (MM AQ-2 through MM AQ-6) are designed to reduce the operational VOC and NO_x emissions but will not be sufficient enough to reduce the NO_x emissions to less than the significant impacts.

TABLE 3-7: SUMMARY OF OPERATIONAL EMISSIONS (WITHOUT MITIGATION, 1 OF 2)

Operational Activities Summer Scenario	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source	47.48	3.45e-03	0.38	3.00e-05	1.34e-03	1.34e-03
Energy Source	0.27	2.47	2.08	0.01	0.19	0.18
Mobile (Passenger Cars)	6.89	10.25	129.77	0.41	40.03	10.76
Mobile (Trucks)	5.56	188.97	38.25	0.71	19.96	5.99
On-Site Equipment	1.09	12.37	6.19	0.03	0.42	0.38
Transport Refrigeration Units	0.53	4.27	6.53	9.00e-04	0.07	0.06
Total Maximum Daily Emissions	61.82	218.33	183.19	1.16	60.67	17.39
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	NO	NO	NO	NO

TABLE 3-7: SUMMARY OF OPERATIONAL EMISSIONS (WITHOUT MITIGATION, 2 OF 2)

Operational Activities Winter Scenario	Emissions (lbs/day)					
	VOC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
Area Source	47.48	3.45e-03	0.38	3.00e-05	1.34e-03	1.34e-03
Energy Source	0.27	2.47	2.08	0.01	0.19	0.18
Mobile (Passenger Cars)	5.69	10.74	105.86	0.36	40.03	10.76
Mobile (Trucks)	5.73	191.54	41.37	0.70	19.96	6.00
On-Site Equipment	1.09	12.37	6.19	0.03	0.42	0.38
Transport Refrigeration Units	0.53	4.27	6.53	9.00e-04	0.07	0.06
Total Maximum Daily Emissions	60.80	221.38	162.40	1.10	60.67	17.39
SCAQMD Regional Threshold	55	55	550	150	150	55
Threshold Exceeded?	YES	YES	NO	NO	NO	NO

3.6 LOCALIZED SIGNIFICANCE- CONSTRUCTION ACTIVITY

BACKGROUND ON LOCALIZED SIGNIFICANCE THRESHOLD (LST) DEVELOPMENT

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology) (42). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the NAAQS and CAAQS. Collectively, these are referred to as Localized Significance Thresholds (LSTs).

The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4¹⁰. LSTs represent the maximum emissions from a project that will not cause 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* (43).

However, consistent with SCAQMD guidance an LST analysis should only be conducted at a project-level, and quantification of LSTs is not applicable for this specific plan-level environmental analysis. Notwithstanding, in the abundance of caution, a construction and operational LST

¹⁰ The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the 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."

analysis has been prepared for the Project to determine the potential localized construction and operational impacts.

APPLICABILITY OF LSTs FOR THE PROJECT

For this Project, the appropriate SRA for the LST analysis is the SRA 33. LSTs apply to CO, NO₂, PM₁₀, and PM_{2.5}. The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size.

In order to determine the appropriate methodology for determining localized impacts that could occur as a result of Project-related construction, the following process is undertaken:

- CalEEMod is utilized to determine the maximum daily on-site emissions that will occur during construction activity.
- The SCAQMD's Fact Sheet for Applying CalEEMod to Localized Significance Thresholds (44) is used to determine the maximum site acreage that is actively disturbed based on the construction equipment fleet and equipment hours as estimated in CalEEMod.
- If the total acreage disturbed is less than or equal to five acres per day, then the SCAQMD's screening look-up tables are utilized to determine if a project has the potential to result in a significant impact. The look-up tables establish a maximum daily emissions threshold in pounds per day that can be compared to CalEEMod outputs.

EMISSIONS CONSIDERED

SCAQMD's LST Methodology clearly states that "off-site mobile emissions from the Project should not be included in the emissions compared to LSTs (45)." Therefore, for purposes of the construction LST analysis only emissions included in the CalEEMod "on-site" emissions outputs were considered.

MAXIMUM DAILY DISTURBED ACREAGE

The "acres disturbed" for analytical purposes are based on specific equipment type for each subcategory of construction activity and the estimated maximum area a given piece of equipment can pass over in an 8-hour workday (as shown on Table 3-8). The equipment-specific disturbance rates were obtained from the CalEEMod user's guide, *Appendix A: Calculation Details for CalEEMod* (October 2017). It should be noted that the disturbed area per day is representative of a piece of equipment making multiple passes over the same land area. In other words, one Rubber Tired Dozer can make multiple passes over the same land area totaling 0.5 acres in a given 8-hour day. Based on Table 3-8, the proposed Project could actively disturb approximately 5.0 acres per day during Rough Grading (Sites #1-5) and Project Site Grading activities.

TABLE 3-8: MAXIMUM DAILY DISTURBED-ACREAGE

Construction Activity	Equipment Type	Equipment Quantity	Acres graded per 8-hour day	Operating Hours per Day	Acres graded per day
Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Sites #1-5	Scrapers	5	1	8	5.0
Total acres disturbed per day during Rough Grading (Sites #1-5)					5.0
On-Site Grading (Post Dirt Import)	Scrapers	5	1	8	5.0
Total acres disturbed per day during Project Site Grading					5.0

Sensitive Receptors

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, individuals with pre-existing respiratory or cardiovascular illness, and athletes and others who engage in frequent exercise. Structures that house these persons or places where they gather to exercise are defined as “sensitive receptors”; they are also known to be locations where an individual can remain for 24 hours. The nearest residential sensitive receptor relative to the Project Site is located approximately 3,594 feet west of the Project site, east of State Route 71 in the City of Chino Hills. Other sensitive receptors near the Project site and excess fill dirt sites include existing residential homes, industrial uses, and outdoor living area and stable uses, as described below.

Receptors in the Project study area are described below and shown on Exhibit 3-A. Localized air quality impacts were evaluated at land uses nearest the Project site. Consistent with the *Majestic Chino Heritage Noise Impact Analysis*, prepared by Urban Crossroads, Inc., all distances are approximate and are measured from the source boundary to the outdoor living areas (e.g., private backyards) or at the building façade, whichever is closer to the source.

- R1: Located approximately 3,594 feet west of the Project site, R1 represents existing residential homes east of State Route 71 in the City of Chino Hills.
- R2: Location R2 represents existing park use west of the Project site at approximately 2,938 feet, east of State Route 71 in the City of Chino Hills.
- R3: Located approximately 4,240 feet east of the Project site, and 147 feet north of Excess Fill Dirt Site #2, R3 represents an existing residential home on agricultural land use on the north side of Pine Avenue in the City of Chino.
- R4: Location R4 represents the existing equestrian center (where an individual caretaker could remain for 24 hours per day) located approximately 135 feet east of Excess Fill Dirt Site #1 and 135 feet south of Excess Fill Dirt Site # 2, south of Pine Avenue.
- R5: Located approximately 331 feet southeast of Excess Fill Dirt Site #1, R5 represents existing Prado Regional Park uses.
- R6: Located approximately 487 feet north of Excess Fill Dirt Site #2, R6 represents existing residential homes north of Pine Avenue.

- R7: Location R7 represents the existing women's correctional facility located roughly 653 feet north of Excess Fill Dirt Site #3, west of Chino Corona Road.
- R8: Located approximately 75 feet west of Excess Fill Dirt Site #3, R8 represents existing Prado Regional Park uses.
- R9: Located approximately 88 feet east of Excess Fill Dirt Site #3, R9 represents future, planned residential use east of Chino Corona Road.
- R10: Location R10 represents an existing residential home on agricultural use and future residential development west of Excess Fill Dirt Site #4 at roughly 102 feet, south of Chino Corona Road.
- R11: Located approximately 151 feet north of Excess Fill Dirt Site #4, R11 represents an existing residential home on agricultural use.
- R12: Located approximately 752 feet north of Excess Fill Dirt Site #5, R12 represents existing residential homes west of Hellman Avenue.
- R13: Location R13 represents the existing residential homes located roughly 282 feet east of Excess Fill Dirt Site #5, south of Pine Avenue in the City of Eastvale.
- R14: Located approximately 1,405 feet southeast of Excess Fill Dirt Site #5, R14 represents existing and future residential uses east of Hellman Avenue in the City of Eastvale.

Table 3-9 indicates the nearest sensitive receptors relative to the Project Site and the Excess Fill Dirt Sites.

TABLE 3-9: NEAREST SENSITIVE RECEPTOR LOCATIONS FROM PROJECT SITE AND EXCESS FILL DIRT SITES FOR PM₁₀ AND PM_{2.5}

Location	Nearest Sensitive Receptor	Distance (feet)	Distance (meters)
Excess Fill Dirt Site #1	R4	135	41
Excess Fill Dirt Site #4	R10	102	31
Excess Fill Dirt Site #3	R9	88	26
Excess Fill Dirt Site #5	R13	282	86
Excess Fill Dirt Site #2	R4	135	41
Project Site	R1	3,594	1,095

The *Methodology* explicitly states that “LSTs base on shorter averaging periods, such as the NO₂ and CO LSTs, could also be applied to receptors such as industrial or commercial facilities since it is reasonable to assume that a worker at these sites could be present for periods of one to eight hours (42).” Consistent with the SCAQMD’s Final LST Methodology, the nearest industrial or commercial use to the Project site will be used to determine operational and construction air impacts for emissions of NO₂ and CO. Table 3-10 indicates the nearest industrial or commercial uses to the Project Site and the Excess Fill Dirt Sites.

EXHIBIT 3-B: SENSITIVE RECEPTOR LOCATIONS FROM PROJECT AND EXCESS FILL DIRT SITES

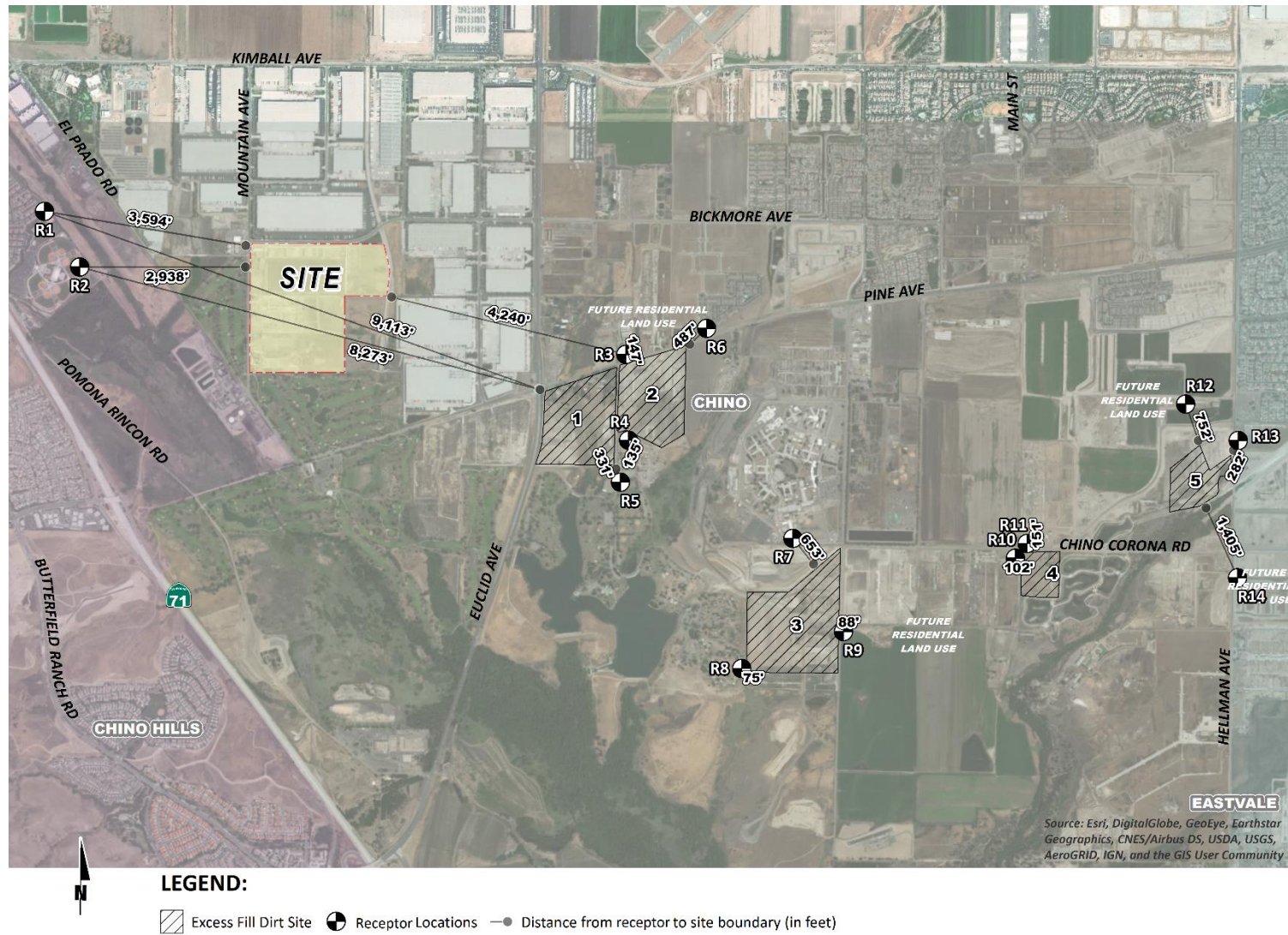


TABLE 3-10: NEAREST SENSITIVE RECEPTOR LOCATIONS FROM PROJECT SITE AND EXCESS FILL DIRT SITES FOR NOX AND CO

Location	Nearest Sensitive Receptor	Distance (feet)	Distance (meters)
Excess Fill Dirt Site #1	R4	135	41
Excess Fill Dirt Site #4	R10	102	31
Excess Fill Dirt Site #3	R8	75	23
Excess Fill Dirt Site #5	R13	282	86
Excess Fill Dirt Site #2	R4	135	41
Project Site	*	145	44

* The nearest commercial or industrial use relative to the Project site is located 145 feet/44 meters north of the Project site

LOCALIZED THRESHOLDS FOR CONSTRUCTION ACTIVITY

Since the total acreage disturbed is less than five acres per day Rough Grading (Sites #1-5) and Project Site Grading activities, the SCAQMD's screening look-up tables are utilized in determining impacts. It should be noted that since the look-up tables identifies thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized to determine localized significance thresholds. Consistent with SCAQMD guidance, the thresholds presented in Table 3-11 were calculated by interpolating the threshold values for the Project's disturbed acreage.

CONSTRUCTION-SOURCE EMISSIONS LST ANALYSIS

Impacts without Mitigation

The SCAQMD Rules that are currently applicable during construction activity for this Project include Rule 403 (Fugitive Dust) (2) and Rule 1113 (Architectural Coatings) (3). As such, credit for Rule 403 and Rule 1113 have been taken in the air quality modeling herein.

Table 3-12 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Without mitigation, localized construction emissions would not exceed the applicable SCAQMD LSTs for emissions of any criteria pollutant. Outputs from the model runs for unmitigated construction LSTs are provided in Appendix 3.1.

TABLE 3-11: MAXIMUM DAILY LOCALIZED EMISSIONS THRESHOLDS (1 OF 2)

Pollutant	Construction	Operations
Localized Thresholds		
NO _x	291 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #1)	295 lbs/day
	278 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #4)	
	270 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #3)	
	357 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #5)	
	291 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #2)	
	295 lbs/day (On-Site Grading (Post Dirt Import))	
CO	2,700 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #1)	2,796 lbs/day
	2,384 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #4)	
	2,193 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #3)	
	4,567 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #5)	
	2,700 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #2)	
	2,796 lbs/day (On-Site Grading (Post Dirt Import))	

TABLE 3-11: MAXIMUM DAILY LOCALIZED EMISSIONS THRESHOLDS (2 OF 2)

Pollutant	Construction	Operations
Localized Thresholds		
PM ₁₀	43 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #1)	78 lbs/day
	24 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #4)	
	16 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #3)	
	72 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #5)	
	43 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #2)	
	322 lbs/day (On-Site Grading (Post Dirt Import))	
PM _{2.5}	11 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #1)	41 lbs/day
	10 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #4)	
	9 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #3)	
	18 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #5)	
	11 lbs/day (Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #2)	
	170 lbs/day (On-Site Grading (Post Dirt Import))	

TABLE 3-12: LOCALIZED SIGNIFICANCE SUMMARY CONSTRUCTION (WITHOUT MITIGATION)

Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #1				
Project Site Rough Grading	Emissions (lbs/day)			
	NO_x	CO	PM₁₀	PM_{2.5}
Maximum Daily Emissions	66.07	47.65	4.83	2.77
SCAQMD Localized Threshold	291	2,700	43	11
Threshold Exceeded?	NO	NO	NO	NO
Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #3				
Project Site Rough Grading	Emissions (lbs/day)			
	NO_x	CO	PM₁₀	PM_{2.5}
Maximum Daily Emissions	66.07	47.65	4.83	2.77
SCAQMD Localized Threshold	278	2,384	24	10
Threshold Exceeded?	NO	NO	NO	NO
Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #4				
Project Site Rough Grading	Emissions (lbs/day)			
	NO_x	CO	PM₁₀	PM_{2.5}
Maximum Daily Emissions	66.07	47.65	4.83	2.77
SCAQMD Localized Threshold	270	2,193	16	9
Threshold Exceeded?	NO	NO	NO	NO
Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #5				
Project Site Rough Grading	Emissions (lbs/day)			
	NO_x	CO	PM₁₀	PM_{2.5}
Maximum Daily Emissions	66.07	47.65	4.83	2.77
SCAQMD Localized Threshold	357	4,567	72	18
Threshold Exceeded?	NO	NO	NO	NO
Project Site Rough Grading and Concurrent Dirt Import and Grading from Excess Fill Site #2				
Project Site Rough Grading	Emissions (lbs/day)			
	NO_x	CO	PM₁₀	PM_{2.5}
Maximum Daily Emissions	66.07	47.65	4.83	2.77
SCAQMD Localized Threshold	291	2,700	43	11
Threshold Exceeded?	NO	NO	NO	NO
On-Site Grading (Post Dirt Import)				
On-Site Grading (Post Dirt Import)	Emissions (lbs/day)			
	NO_x	CO	PM₁₀	PM_{2.5}
Maximum Daily Emissions	23.22	28.90	3.27	1.33
SCAQMD Localized Threshold	295	2,796	322	170
Threshold Exceeded?	NO	NO	NO	NO

3.7 LOCALIZED SIGNIFICANCE – LONG-TERM OPERATIONAL ACTIVITY

The Project is located on an approximate 96.94-acre parcel. As noted previously, the LST Methodology provides look-up tables for sites with an area with daily disturbance of 5 acres or less. For projects that exceed 5 acres, the 5-acre LST look-up tables can be used as a screening tool to determine which pollutants require additional detailed analysis. This approach is conservative as it assumes that all on-site emissions associated with the project would occur within a concentrated 5-acre area. This screening method would therefore over-predict potential localized impacts, because by assuming that on-site operational activities are occurring over a smaller area, the resulting concentrations of air pollutants are more highly concentrated once they reach the smaller site boundary than they would be for activities if they were spread out over a larger surface area. On a larger site, the same amount of air pollutants generated would disperse over a larger surface area and would result in a lower concentration once emissions reach the project-site boundary. As such, LSTs for a 5-acre site during operations are used as a screening tool to determine if further detailed analysis is required.

Table 3-13 shows the calculated emissions for the Project's operational activities compared with the applicable LSTs. The LST analysis includes on-site sources only; however, CalEEMod outputs do not separate on-site and off-site emissions from mobile sources. In an effort to establish a maximum potential impact scenario for analytic purposes, the emissions shown on Table 3-13 represent all on-site Project-related stationary (area) sources. It is assumed that the maximum distance a passenger car and/or truck would make through (round trip from one end of the Project site to the other) the project site is approximately 3.50 miles. An on-site travel distance of approximately 3.50 miles/18,480 feet for each passenger car and truck trips has been used as a conservative measure. This distance represents 24.14% of all passenger car-related mobile-sources and 11.17% of all truck-related mobile sources. Modeling based on these assumptions demonstrates that even within broad encompassing parameters, Project operational-source emissions would not exceed applicable LSTs.

OPERATIONAL-SOURCE EMISSIONS LST ANALYSIS

Impacts without Mitigation

As shown on Table 3-13, operational emissions will not exceed the LST thresholds for the nearest sensitive receptor. Therefore, the Project will have a less than significant localized impact during operational activity.

TABLE 3-13: LOCALIZED SIGNIFICANCE OPERATIONS SUMMARY

Operational Activity	Emissions (lbs/day)			
	NO _x	CO	PM ₁₀	PM _{2.5}
Maximum Daily Emissions	39.30	44.97	12.51	3.85
SCAQMD Localized Threshold	270	2,193	78	41
Threshold Exceeded?	NO	NO	NO	NO

3.8 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. At the time of the 1993 Handbook, the SCAB was designated nonattainment under the California AAQS and National AAQS for CO (46).

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, as previously noted in Table 2-3.

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 3-14.

TABLE 3-14: CO MODEL RESULTS

Intersection Location	CO Concentrations (ppm)		
	Morning 1-hour	Afternoon 1-hour	8-hour
Wilshire/Veteran	4.6	3.5	3.7
Sunset/Highland	4	4.5	3.5
La Cienega/Century	3.7	3.1	5.2
Long Beach/Imperial	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 CO (1992 CO Plan), peak CO 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, 9.3 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 8.6 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (47). In contrast, the ambient 8-hr CO concentration within the Project study area is estimated at 1.4 ppm—1.6 ppm (please refer to previous Table 2-3). Therefore, even if the traffic volumes for the Project were double or even triple of the traffic volumes generated at the Long Beach Blvd. and Imperial Hwy. intersection, coupled with the on-going 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—or 24,000 vehicles per hour where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (48).

Traffic volumes generating the CO concentrations for the “hot spot” analysis is shown on Table 3-15. The busiest intersection evaluated for AM traffic volumes was at Wilshire Blvd. and Veteran Ave., which has an AM traffic volume of approximately 8,062 vehicles per hour. Alternatively, the busiest intersection for PM traffic volumes was at La Cienega Boulevard and Century Boulevard, which has a PM traffic volume of 8,674 vehicles per hour (47). 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).¹¹ As shown in Exhibit 8-3 of the TIA, the highest trips on a segment of road for the Project is 56,600

¹¹ Based on the ratio of the CO standard (20.0 ppm) and the modeled value (4.6 ppm).

vehicles per hour on Euclid Avenue (SR-83) and Pine Avenue (5). Additionally, the 2003 AQMP determined that the highest traffic volumes on a segment of road is 8,674 vehicles per hour on La Cienega Boulevard and Century Boulevard (47). As shown on Table 3-16, the highest trips on a segment of road for the Project is 7,704 vehicles per hour on Euclid Avenue (SR-83) and Edison Avenue. As such, Project-related traffic volumes are less than the traffic volumes identified in the 2003 AQMP. The proposed 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 proposed Project. Localized air quality impacts related to mobile-source emissions would therefore be less than significant.

TABLE 3-15: TRAFFIC VOLUMES

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

Source: 2003 AQMP

TABLE 3-16: PROJECT PEAK HOUR TRAFFIC VOLUMES

Intersection Location	Peak Traffic Volumes (vph)				
	Northbound (AM/PM)	Southbound (AM/PM)	Eastbound (AM/PM)	Westbound (AM/PM)	Total (AM/PM)
Euclid Av. (SR-83)/Edison Av.	1,726/2,274	1,930/2,033	1,330/1,906	1,667/1,491	6,653/7,704
Euclid Av. (SR-83)/Pine Av.	2,105/2,782	1,325/1,716	591/1,250	2,640/1,570	6,661/7,318
Archibald Av./Limonite Av.	1,629/1,770	1,365/2,417	898/1,119	1,840/1,897	5,732/7,203
Archibald Av./Schleisman Rd.	1,617/1,519	1,543/1,920	1,516/2,333	1,923/1,489	6,600/7,261

Source: Majestic Chino Heritage Traffic Impact Analysis (Urban Crossroads, Inc., 2019).

3.9 AIR QUALITY MANAGEMENT PLANNING

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 in order 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 AQMD released the Final 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 (49). Similar to the 2012 AQMP, the 2016 AQMP incorporates scientific and technological information and planning assumptions, including the 2016 RTP/SCS, a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (21). 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 SCAQMD's CEQA Air Quality Handbook (1993) (50). These indicators are discussed below:

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 Project would not exceed the applicable LSTs for construction activity. However, the Project's regional construction-source emissions would exceed applicable regional significance threshold of NO_x. Therefore, the Project has the potential to conflict with the AQMP according to this criterion.

Operational Impacts – Consistency Criterion 1

The Project would not exceed the applicable LSTs for operational activity. However, the Project would exceed the applicable regional thresholds for emissions of VOCs and NO_x. Therefore, the Project would have the potential to conflict with the AQMP according to this criterion.

With regard to timely attainment of AQMP air quality standards and interim emissions, the Project site's current General Plan Land Use designation is "Agriculture". The Agriculture General Plan Land Use, which is reflected in the 2016 AQMP, would allow for development of agricultural uses including farming, stables, pastures, and grazing. Public facilities are permitted that are necessary for: drainage and flood control (including watershed, water recharge and percolation areas, and retention or detention of flood waters, reducing water runoff pollutants, public

communications, and other publicly-owned facilities necessary to provide for public safety or health (51).

To allow for development of the Project, the Project site would need to be designated to allow for industrial land uses.

Accordingly, the 2016 AQMP, which assumes the Project site would be developed with Agricultural uses only, does not reflect the Project's proposed Industrial Land Use designations. Nor do the 2016 AQMP air quality standards and interim emissions reductions targets reflect the Project's proposed General Plan Land Use designation. For this reason, it cannot be determined whether or not the Project would delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

In conclusion, the Project would not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations. However, because the Agricultural General Plan Land Use land use designation reflected in the 2016 AQMP differs from proposed Land Use designations proposed under the Project, there is no opportunity to determine whether or not the Project would delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP. As the Project's potential to delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP is indeterminate and cannot be assured at this time, for the purposes of this analysis, the Project is considered to be inconsistent with Criterion No.1.

Consistency Criterion No. 2: The Project will not exceed the assumptions in the AQMP based on the years of Project build-out 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 Chino 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 would likely occur, with disturbance of the entire site occurring during construction activities.

Operational Impacts – Consistency Criterion 1

As per the City's General Plan, the Project site is designated as "Agriculture". The Agriculture designation is intended to provide for agricultural uses including farming, stables, pastures, and grazing. Public facilities are permitted that are necessary for: drainage and flood control (including watershed, water recharge and percolation areas, and retention or detention of flood waters, reducing water runoff pollutants, public communications, and other publicly-owned facilities necessary to provide for public safety or health (51). As indicated, the total development

is proposed to consist of up to 2,082,750 square feet of industrial uses. The Project's land uses are not consistent with the adopted zoning, and the development intensities have the potential to exceed what is allowed under the General Plan. The Project would therefore conflict with the AQMP.

AQMP Consistency Conclusion

The Project would be inconsistent with AQMP Criterion No's. 1 and 2, resulting in a determination that impacts in this regard would be considered significant. The Project would implement development-specific air quality mitigation measures identified in this analysis, acting to generally reduce the Project's construction-source and operational-source air pollutant emissions. Additionally, incorporation of contemporary energy-efficient technologies and operational programs, and compliance with SCAQMD emissions reductions and control requirements act to reduce Project air pollutant emissions generally.

In combination, the Project air quality mitigation measures; and Project emissions-reducing design features, and operational programs are consistent with and support overarching AQMP air pollution reduction strategies. Project support of these strategies promotes timely attainment of AQMP air quality standards and would bring the Project into conformance with the AQMP to the extent feasible. Notwithstanding, based on the analysis presented here, the Project is considered to be inconsistent with applicable AQMP Consistency Criteria and a significant and unavoidable impact would occur.

3.10 POTENTIAL IMPACTS TO SENSITIVE RECEPTORS

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Sensitive receptors can include uses such as long-term health care facilities, rehabilitation centers, and retirement homes. Residences, schools, playgrounds, child care centers, and athletic facilities can also be considered as sensitive receptors.

The proposed Project would not result in a CO "hotspot" as a result of Project related traffic during ongoing operations, nor would the Project result in a significant adverse health impact as discussed in Section 3.8. Thus, a less than significant impact to sensitive receptors during operational activity is expected.

3.11 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

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. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the City's solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances (52). Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required.

Lastly, it should be noted that the Project site has historically operated as an agricultural use that does in fact generate odors associated with livestock. The Project's transition from agricultural to industrial land use will eliminate the historical odors from the site.

3.12 CUMULATIVE IMPACTS

As previously shown in Table 2-3, the CAAQS designate the Project site as nonattainment for O₃, PM₁₀, and PM_{2.5} while the NAAQS designates the Project site as nonattainment for O₃ and PM_{2.5}.

Construction Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that Project construction-source air pollutant emissions will have the potential to exceed regional thresholds for emissions of NO_x. Therefore, the Project would have the potential to result in a cumulatively considerable significant impact with respect to construction activity.

Operational Impacts

The Project has the potential to result in cumulative impacts associated with on-going operations for emissions of VOCs and NO_x. Therefore, the Project would have the potential to result in a cumulatively considerable significant impact with respect to operational activity.

The SCAQMD has recognized that there is typically insufficient information to quantitatively evaluate the cumulative contributions of multiple projects because each project applicant has no control over nearby projects. Nevertheless, the potential cumulative impacts from the Project and other projects are discussed below.

As previously shown in Table 2-3, the CAAQS designate the Project site as nonattainment for O₃, PM₁₀, and PM_{2.5} while the NAAQS designates the Project site as nonattainment for O₃ and PM_{2.5}.

The AQMD 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* (53). In this report the AQMD clearly states (Page D-3):

...the AQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or [Environmental Impact Report] EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for toxic air contaminant (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 the Basin 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. As previously noted, the Project has the potential to exceed the applicable SCAQMD regional threshold for construction (NO_x) and operational-source (VOCs and NO_x) emissions. As such, the Project has the potential to result in a cumulatively significant impact during construction and operational activity.

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4 REFERENCES

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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 Majestic Chino Heritage Project. The information contained in this air quality impact report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at (949) 336-5987.

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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

Environmental Site Assessment – American Society for Testing and Materials • June 2013
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 – California Air Resources Board • 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

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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.

Ambient Air Quality Standards

(Updated 5/4/16)

Pollutant	Averaging Time	California Standards ¹		National Standards ²		
		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 Photometry	—	Same as Primary Standard	Ultraviolet Photometry
	8 Hour	0.070 ppm (137 µg/m³)		0.070 ppm (137 µg/m³)		
Respirable Particulate Matter (PM10) ⁹	24 Hour	50 µg/m³	Gravimetric or Beta Attenuation	150 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	20 µg/m³		—		
Fine Particulate Matter (PM2.5) ⁹	24 Hour	—	—	35 µg/m³	Same as Primary Standard	Inertial Separation and Gravimetric Analysis
	Annual Arithmetic Mean	12 µg/m³	Gravimetric or Beta Attenuation	12.0 µg/m³	15 µg/m³	
Carbon Monoxide (CO)	1 Hour	20 ppm (23 mg/m³)	Non-Dispersive Infrared Photometry (NDIR)	35 ppm (40 mg/m³)	—	Non-Dispersive Infrared Photometry (NDIR)
	8 Hour	9.0 ppm (10 mg/m³)		9 ppm (10 mg/m³)	—	
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m³)		—	—	
Nitrogen Dioxide (NO ₂) ¹⁰	1 Hour	0.18 ppm (339 µg/m³)	Gas Phase Chemiluminescence	100 ppb (188 µg/m³)	—	Gas Phase Chemiluminescence
	Annual Arithmetic Mean	0.030 ppm (57 µg/m³)		0.053 ppm (100 µg/m³)	Same as Primary Standard	
Sulfur Dioxide (SO ₂) ¹¹	1 Hour	0.25 ppm (655 µg/m³)	Ultraviolet Fluorescence	75 ppb (196 µg/m³)	—	Ultraviolet Fluorescence; Spectrophotometry (Pararosaniline Method)
	3 Hour	—		—	0.5 ppm (1300 µg/m³)	
	24 Hour	0.04 ppm (105 µg/m³)		0.14 ppm (for certain areas) ¹¹	—	
	Annual Arithmetic Mean	—		0.030 ppm (for certain areas) ¹¹	—	
Lead ^{12,13}	30 Day Average	1.5 µg/m³	Atomic Absorption	—	—	High Volume Sampler and Atomic Absorption
	Calendar Quarter	—		1.5 µg/m³ (for certain areas) ¹²	Same as Primary Standard	
	Rolling 3-Month Average	—		0.15 µg/m³		
Visibility Reducing Particles ¹⁴	8 Hour	See footnote 14	Beta Attenuation and Transmittance through Filter Tape	No National Standards		
Sulfates	24 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			

See footnotes on next page ...

1. California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1- and 24-hour), nitrogen dioxide, and particulate matter (PM₁₀, PM_{2.5}, 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 PM_{2.5}, 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.
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 PM_{2.5} primary standard was lowered from 15 µg/m³ to 12.0 µg/m³. The existing national 24-hour PM_{2.5} 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 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 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.

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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-transitional, 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



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 1

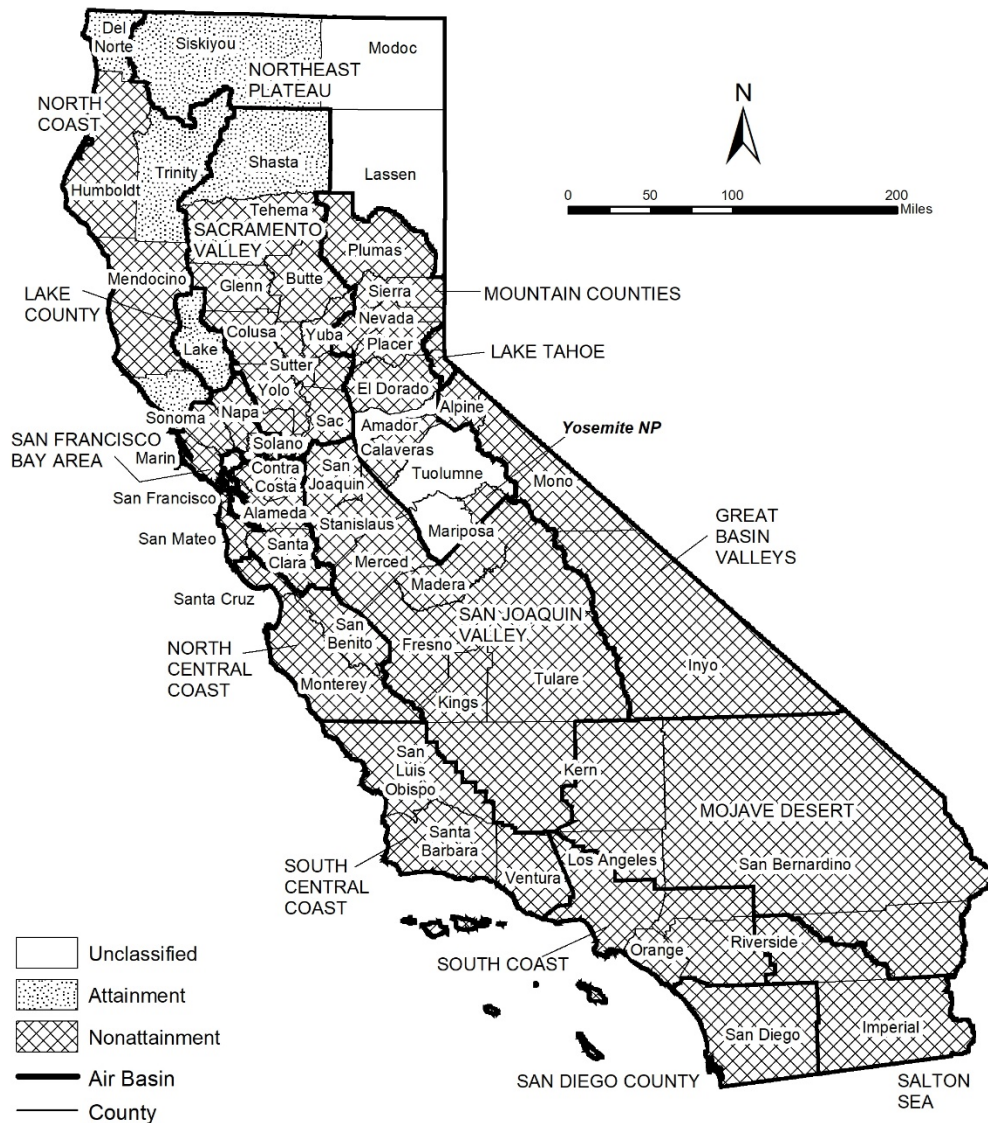
**California Ambient Air Quality Standards
Area Designations for Ozone ⁽¹⁾**

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTHEAST PLATEAU AIR BASIN				X
Alpine County			X		SACRAMENTO VALLEY AIR BASIN				
Inyo County	X				Colusa and Glenn Counties				X
Mono County	X				Sutter/Yuba Counties				
LAKE COUNTY AIR BASIN				X	Sutter Buttes	X			
LAKE TAHOE AIR BASIN				X	Remainder of Sutter County				X
MOJAVE DESERT AIR BASIN	X				Yuba County				X
MOUNTAIN COUNTIES AIR BASIN					Yolo/Solano Counties		X		
Amador County	X				Remainder of Air Basin	X			
Calaveras County	X				SALTON SEA AIR BASIN	X			
El Dorado County (portion)	X				SAN DIEGO AIR BASIN	X			
Mariposa County	X				SAN FRANCISCO BAY AREA AIR BASIN	X			
Nevada County	X				SAN JOAQUIN VALLEY AIR BASIN	X			
Placer County (portion)	X				SOUTH CENTRAL COAST AIR BASIN				
Plumas County			X		San Luis Obispo County	X			
Sierra County			X		Santa Barbara County		X		
Tuolumne County	X				Ventura County	X			
NORTH CENTRAL COAST AIR BASIN		X			SOUTH COAST AIR BASIN	X			
NORTH COAST AIR BASIN				X					

(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

**2018
Area Designations for State
Ambient Air Quality Standards
PM₁₀**



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 2

**California Ambient Air Quality Standards
Area Designation for Suspended Particulate Matter (PM10)**

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN	X			NORTH CENTRAL COAST AIR BASIN	X		
LAKE COUNTY AIR BASIN			X	NORTH COAST AIR BASIN			
LAKE TAHOE AIR BASIN	X			Del Norte, Sonoma (portion) and Trinity Counties			X
MOJAVE DESERT AIR BASIN	X			Remainder of Air Basin	X		
MOUNTAIN COUNTIES AIR BASIN				NORTHEAST PLATEAU AIR BASIN			
Amador County		X		Siskiyou County			X
Calaveras County	X			Remainder of Air Basin		X	
El Dorado County (portion)	X			SACRAMENTO VALLEY AIR BASIN			
Mariposa County				Shasta County			X
- Yosemite National Park	X			Remainder of Air Basin	X		
- Remainder of County		X		SALTON SEA AIR BASIN	X		
Nevada County	X			SAN DIEGO AIR BASIN	X		
Placer County (portion)	X			SAN FRANCISCO BAY AREA AIR BASIN	X		
Plumas County	X			SAN JOAQUIN VALLEY AIR BASIN	X		
Sierra County	X			SOUTH CENTRAL COAST AIR BASIN	X		
Tuolumne County		X		SOUTH COAST AIR BASIN	X		

FIGURE 3

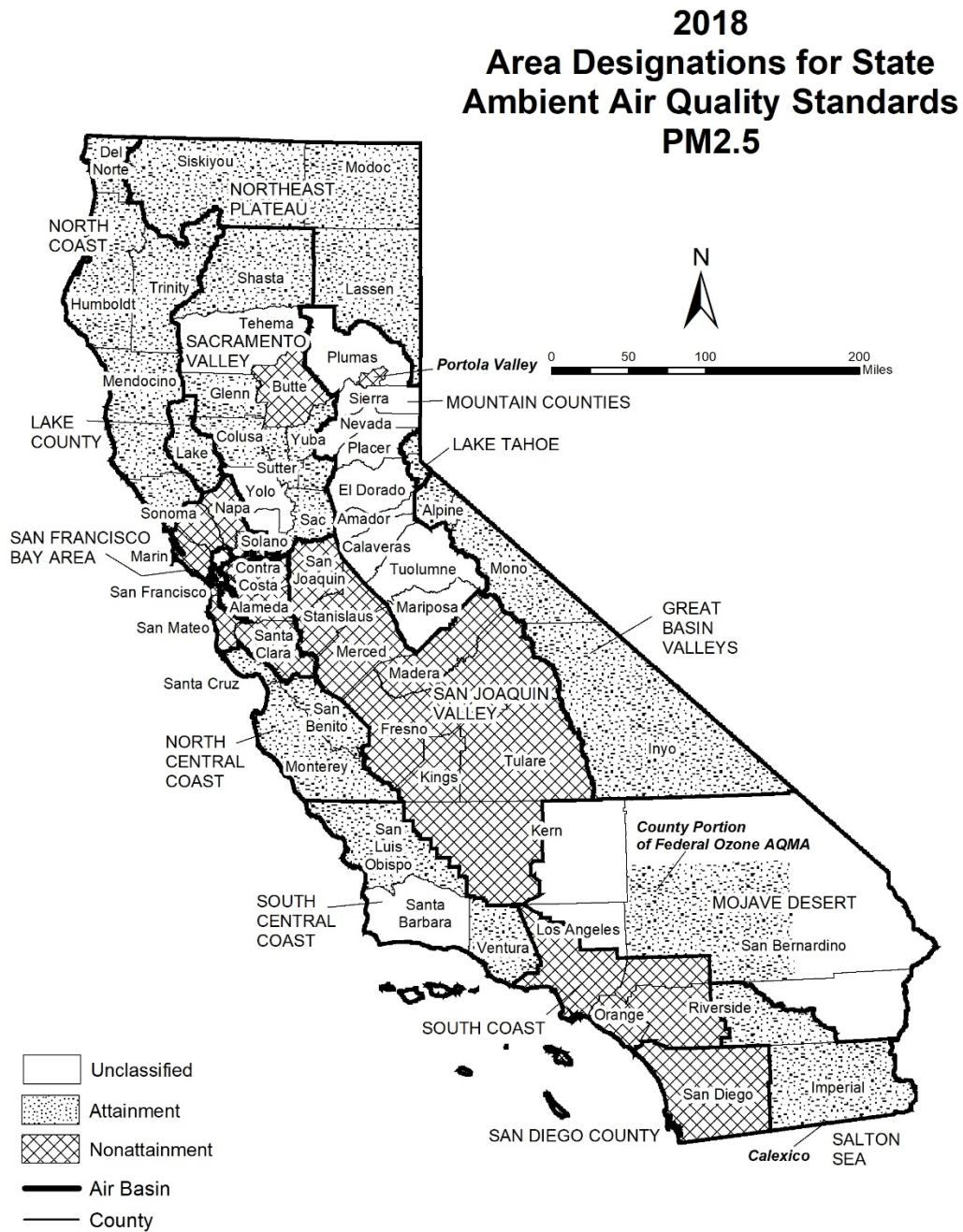


TABLE 3

**California Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)**

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			
LAKE COUNTY AIR BASIN			X	Imperial County			
LAKE TAHOE AIR BASIN			X	- City of Calexico (3)	X		
MOJAVE DESERT AIR BASIN				Remainder of Air Basin			X
San Bernardino County				SAN DIEGO AIR BASIN	X		
- County portion of federal Southeast Desert Modified AQMA for Ozone (1)			X	SAN FRANCISCO BAY AREA AIR BASIN	X		
				SAN JOAQUIN VALLEY AIR BASIN	X		
Remainder of Air Basin		X		SOUTH CENTRAL COAST AIR BASIN			
MOUNTAIN COUNTIES AIR BASIN				San Luis Obispo County			X
Plumas County				Santa Barbara County		X	
- Portola Valley (2)	X			Ventura County			X
Remainder of Air Basin		X		SOUTH COAST AIR BASIN	X		
NORTH CENTRAL COAST AIR BASIN			X				
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN							
Butte County	X						
Colusa County			X				
Glenn County			X				
Placer County (portion)			X				
Sacramento County			X				
Shasta County			X				
Sutter and Yuba Counties			X				
Remainder of Air Basin		X					

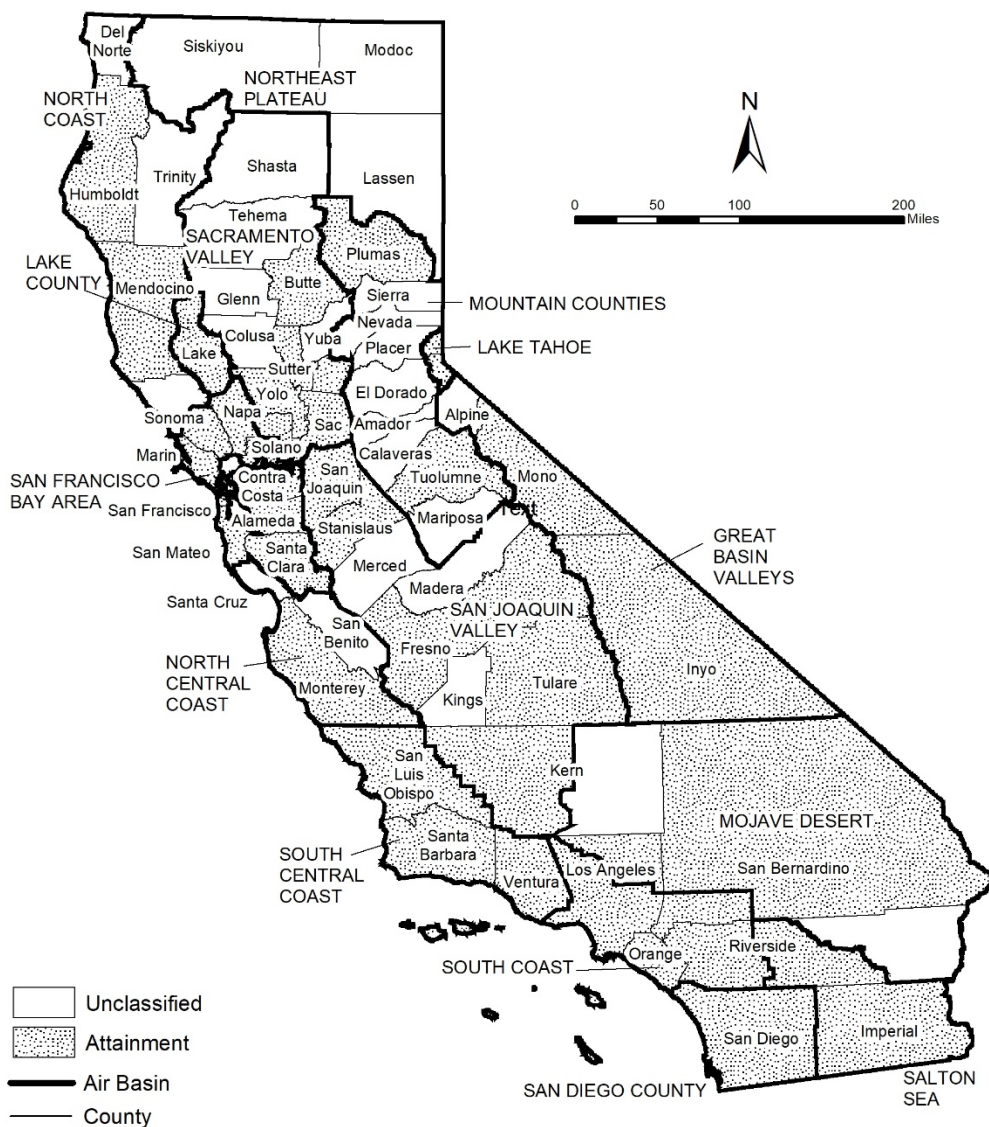
(1) California Code of Regulations, title 17, section 60200(b)

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

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

FIGURE 4

**2018
Area Designations for State
Ambient Air Quality Standards
CARBON MONOXIDE**



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 4

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

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

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

FIGURE 5

2018
Area Designations for State
Ambient Air Quality Standards
NITROGEN DIOXIDE



TABLE 5

**California Ambient Air Quality Standards
Area Designation for Nitrogen Dioxide**

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			
NORTHEAST PLATEAU AIR BASIN			X	CA 60 Near-road Portion of San Bernardino, Riverside, and Los Angeles Counties	X		
				Remainder of Air Basin			X

FIGURE 6



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

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

* The area designated for sulfur dioxide is a county or portion of a county

FIGURE 7

2018
Area Designations for State
Ambient Air Quality Standards
SULFATES



Source Date:
 October 2018
 Air Quality Planning and Science Division

TABLE 7**California Ambient Air Quality Standards
Area Designation for Sulfates**

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SACRAMENTO VALLEY AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN DIEGO AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTHEAST PLATEAU AIR BASIN			X				

FIGURE 8

2018
Area Designations for State
Ambient Air Quality Standards
LEAD



Source Date:
 October 2018
 Air Quality Planning and Science Division

TABLE 8

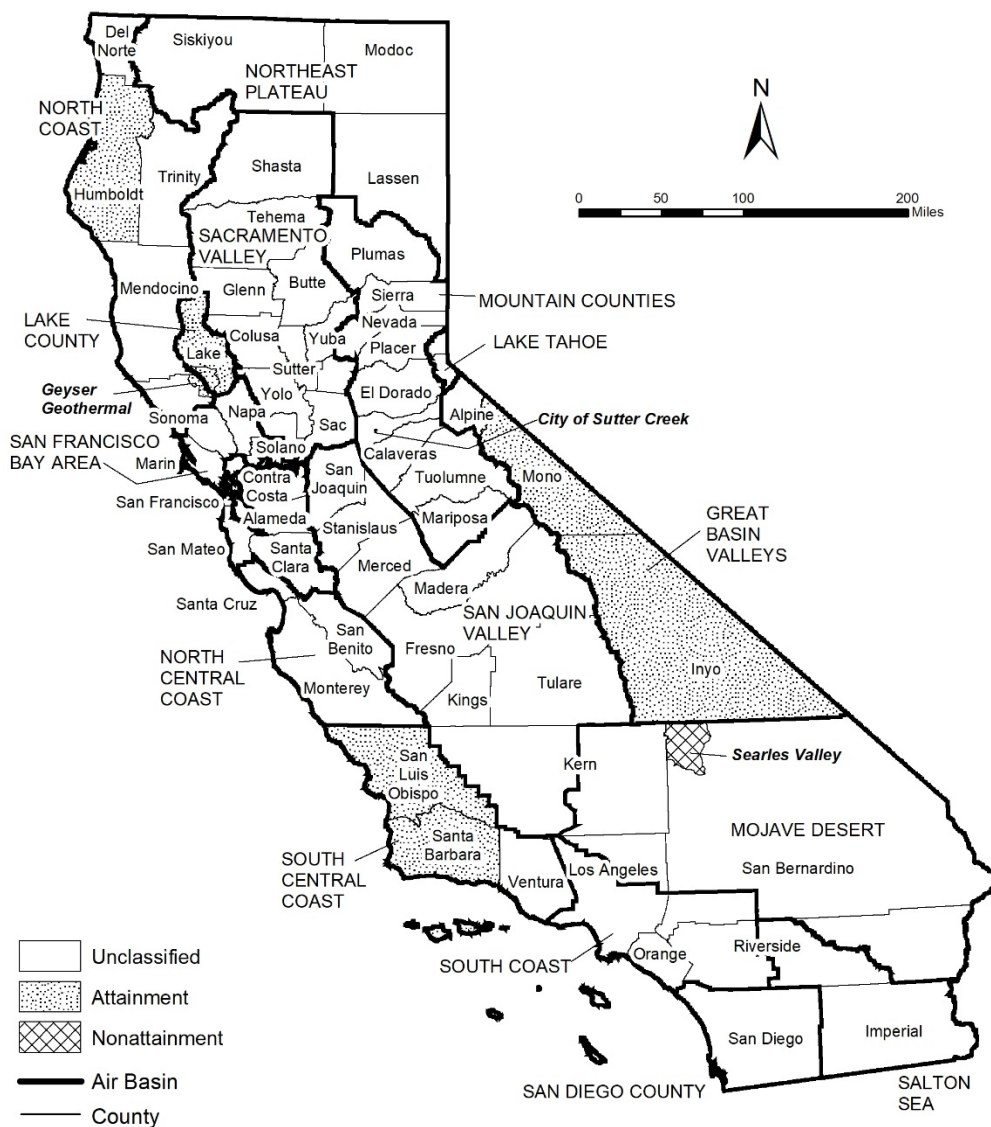
**California Ambient Air Quality Standards
Area Designations for Lead (particulate)***

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN			X	SALTON SEA AIR BASIN			X
LAKE COUNTY AIR BASIN			X	SAN DIEGO AIR BASIN			X
LAKE TAHOE AIR BASIN			X	SAN FRANCISCO BAY AREA AIR BASIN			X
MOJAVE DESERT AIR BASIN			X	SAN JOAQUIN VALLEY AIR BASIN			X
MOUNTAIN COUNTIES AIR BASIN			X	SOUTH CENTRAL COAST AIR BASIN			X
NORTH CENTRAL COAST AIR BASIN			X	SOUTH COAST AIR BASIN			X
NORTH COAST AIR BASIN			X				
NORTHEAST PLATEAU AIR BASIN			X				
SACRAMENTO VALLEY AIR BASIN			X				

* 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

2018
Area Designations for State
Ambient Air Quality Standards
HYDROGEN SULFIDE



Source Date:
 October 2018
 Air Quality Planning and Science Division

TABLE 9

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

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN					NORTH CENTRAL COAST AIR BASIN			X	
Alpine County			X		NORTH COAST AIR BASIN				
Inyo County				X	Del Norte County			X	
Mono County				X	Humboldt County				X
LAKE COUNTY AIR BASIN				X	Mendocino County			X	
LAKE TAHOE AIR BASIN			X		Sonoma County (portion)				
MOJAVE DESERT AIR BASIN					- Geyser Geothermal Area (2)				X
Kern County (portion)			X		- Remainder of County			X	
Los Angeles County (portion)			X		Trinity County			X	
Riverside County (portion)			X		NORTHEAST PLATEAU AIR BASIN			X	
San Bernardino County (portion)					SACRAMENTO VALLEY AIR BASIN			X	
- Searles Valley Planning Area (1)	X				SALTON SEA AIR BASIN			X	
- Remainder of County			X		SAN DIEGO AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN					SAN FRANCISCO BAY AREA AIR BASIN			X	
Amador County					SAN JOAQUIN VALLEY AIR BASIN			X	
- City of Sutter Creek	X				SOUTH CENTRAL COAST AIR BASIN				
- Remainder of County			X		San Luis Obispo County				X
Calaveras County			X		Santa Barbara County				X
El Dorado County (portion)			X		Ventura County			X	
Mariposa County			X		SOUTH COAST AIR BASIN			X	
Nevada County			X						
Placer County (portion)			X						
Plumas County			X						
Sierra County			X						
Tuolumne County			X						

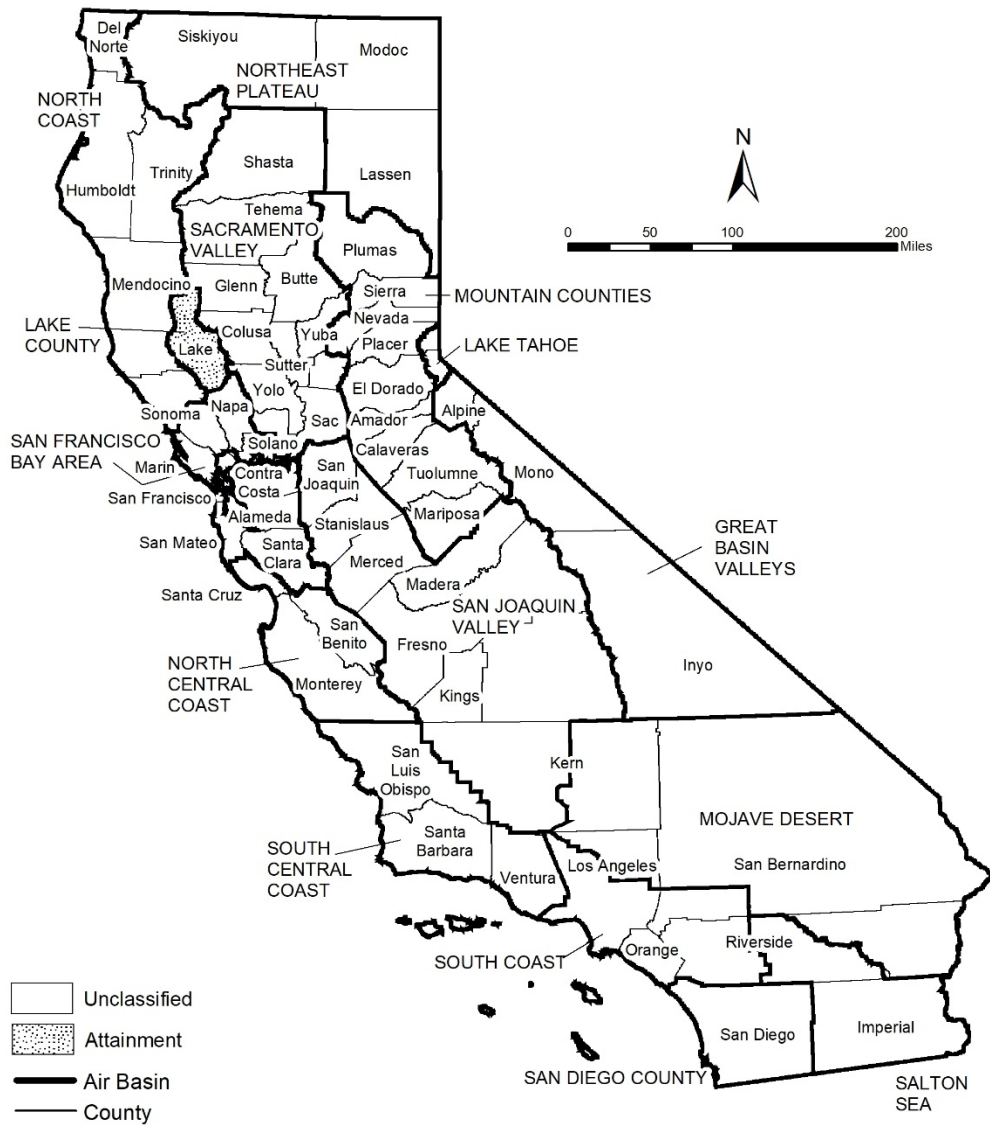
* The area designated for hydrogen sulfide is a county or portion of a county

(1) 52 Federal Register 29384 (August 7, 1987)

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

FIGURE 10

**2018
Area Designations for State
Ambient Air Quality Standards
VISIBILITY REDUCING PARTICLES**



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 10

**California Ambient Air Quality Standards
Area Designation for Visibility Reducing Particles**

	N	NA-T	U	A		N	NA-T	U	A
GREAT BASIN VALLEYS AIR BASIN			X		SACRAMENTO VALLEY AIR BASIN			X	
LAKE COUNTY AIR BASIN				X	SALTON SEA AIR BASIN			X	
LAKE TAHOE AIR BASIN			X		SAN DIEGO AIR BASIN			X	
MOJAVE DESERT AIR BASIN			X		SAN FRANCISCO BAY AREA AIR BASIN			X	
MOUNTAIN COUNTIES AIR BASIN			X		SAN JOAQUIN VALLEY AIR BASIN			X	
NORTH CENTRAL COAST AIR BASIN			X		SOUTH CENTRAL COAST AIR BASIN			X	
NORTH COAST AIR BASIN			X		SOUTH COAST AIR BASIN			X	
NORTHEAST PLATEAU AIR BASIN			X						

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. 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 (PM₁₀). The U.S. EPA uses three categories to designate areas with respect to PM₁₀:

- Attainment
- Nonattainment
- Unclassifiable

Ozone, Fine Suspended Particulate Matter (PM_{2.5}), Carbon Monoxide (CO), and Nitrogen Dioxide (NO₂). The U.S. EPA uses two categories to designate areas with respect to these standards:

- Nonattainment
- Unclassifiable/Attainment

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. Original 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 µg/m³. New area designations reflecting this revised standard became final in December 2014. The current designation map reflects the most recently revised (2012) annual average standard of 12.0 µg/m³ as well as the 24-hour standard of 35 µg/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 NO₂ 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,
- Unclassifiable, and
- Attainment/Unclassifiable.

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 µg/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



TABLE 11

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

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SACRAMENTO VALLEY AIR BASIN (cont.)		
LAKE COUNTY AIR BASIN		X	Yolo County (2)	X	
LAKE TAHOE AIR BASIN		X	Yuba County		X
MOUNTAIN COUNTIES AIR BASIN			SAN DIEGO COUNTY	X	
Amador County	X		SAN FRANCISCO BAY AREA AIR BASIN	X	
Calaveras County	X		SAN JOAQUIN VALLEY AIR BASIN	X	
El Dorado County (portion) (2)	X		SOUTH CENTRAL COAST AIR BASIN (1)		
Mariposa County	X		San Luis Obispo County		
Nevada County			- Eastern San Luis Obispo County	X	
- Western Nevada County	X		- Remainder of County		X
- Remainder of County		X	Santa Barbara County		X
Placer County (portion) (2)	X		Ventura County		
Plumas County		X	- Area excluding Anacapa and San Nicolas Islands	X	
Sierra County		X	- Channel Islands (1)		X
Tuolumne County	X		SOUTH COAST AIR BASIN (1)	X	
NORTH CENTRAL COAST AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
NORTH COAST AIR BASIN		X	Kern County (portion)	X	
NORTHEAST PLATEAU AIR BASIN		X	- Indian Wells Valley		X
SACRAMENTO VALLEY AIR BASIN			Imperial County	X	
Butte County	X		Los Angeles County (portion)	X	
Colusa County		X	Riverside County (portion)		
Glenn County		X	- Coachella Valley	X	
Sacramento Metro Area (2)	X		- Non-AQMA portion		X
Shasta County		X	San Bernardino County		
Sutter County			- Western portion (AQMA)	X	
- Sutter Buttes	X		- Eastern portion (non-AQMA)		X
- Southern portion of Sutter County (2)	X				
- Remainder of Sutter County		X			
Tehama County					
- Tuscan Buttes	X				
- Remainder of Tehama County		X			

* 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) 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.

South Coast Air Basin:

Los Angeles County includes San Clemente and Santa Catalina Islands.

(2) 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.

FIGURE 12

Area Designations for National Ambient Air Quality Standards PM10

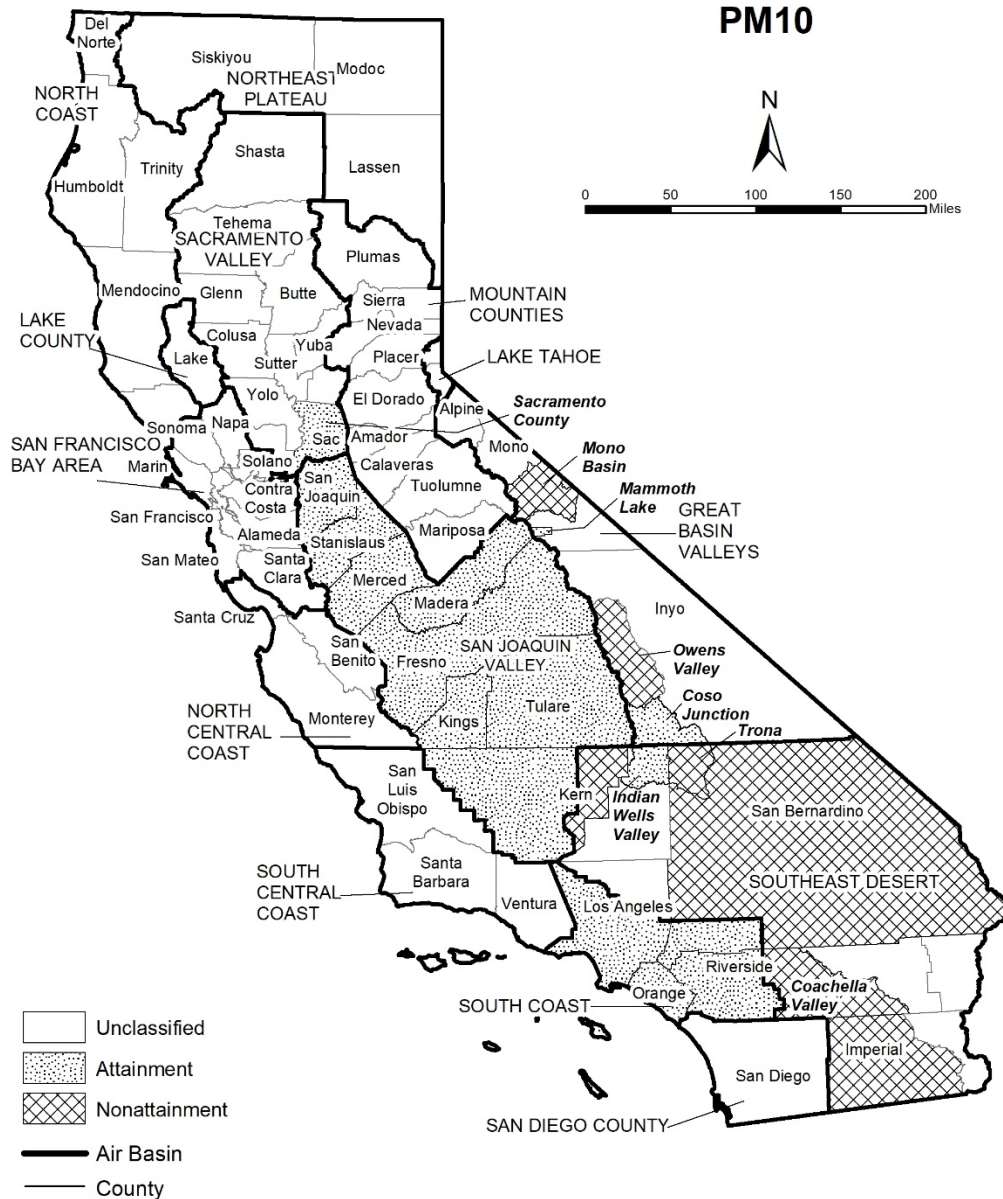


TABLE 12

**National Ambient Air Quality Standards
Area Designations for Suspended Particulate Matter (PM10)***

	N	U	A		N	U	A
GREAT BASIN VALLEYS AIR BASIN				SAN DIEGO COUNTY		X	
Alpine County		X		SAN FRANCISCO BAY AREA AIR BASIN		X	
Inyo County				SAN JOAQUIN VALLEY AIR BASIN			X
- Owens Valley Planning Area	X			SOUTH CENTRAL COAST AIR BASIN		X	
- Coso Junction			X	SOUTH COAST AIR BASIN			X
- Remainder of County		X		SOUTHEAST DESERT AIR BASIN			
Mono County				Eastern Kern County			
- Mammoth Lake Planning Area			X	- Indian Wells Valley			X
- Mono Lake Basin	X			- Portion within San Joaquin Valley Planning Area	X		
- Remainder of County		X		- Remainder of County		X	
LAKE COUNTY AIR BASIN		X		Imperial County			
LAKE TAHOE AIR BASIN		X		- Imperial Valley Planning Area	X		
MOUNTAIN COUNTIES AIR BASIN				- Remainder of County		X	
Placer County (portion) (2)		X		Los Angeles County (portion)		X	
Remainder of Air Basin		X		Riverside County (portion)			
NORTH CENTRAL COAST AIR BASIN		X		- Coachella Valley (3)	X		
NORTH COAST AIR BASIN		X		- Non-AQMA portion		X	
NORTHEAST PLATEAU AIR BASIN		X		San Bernardino County			
SACRAMENTO VALLEY AIR BASIN				- Trona	X		
Butte County		X		- Remainder of County	X		
Colusa County		X					
Glenn County		X					
Placer County (portion) (2)		X					
Sacramento County (1)			X				
Shasta County		X					
Solano County (portion)		X					
Sutter County		X					
Tehama County		X					
Yolo County		X					
Yuba County		X					

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

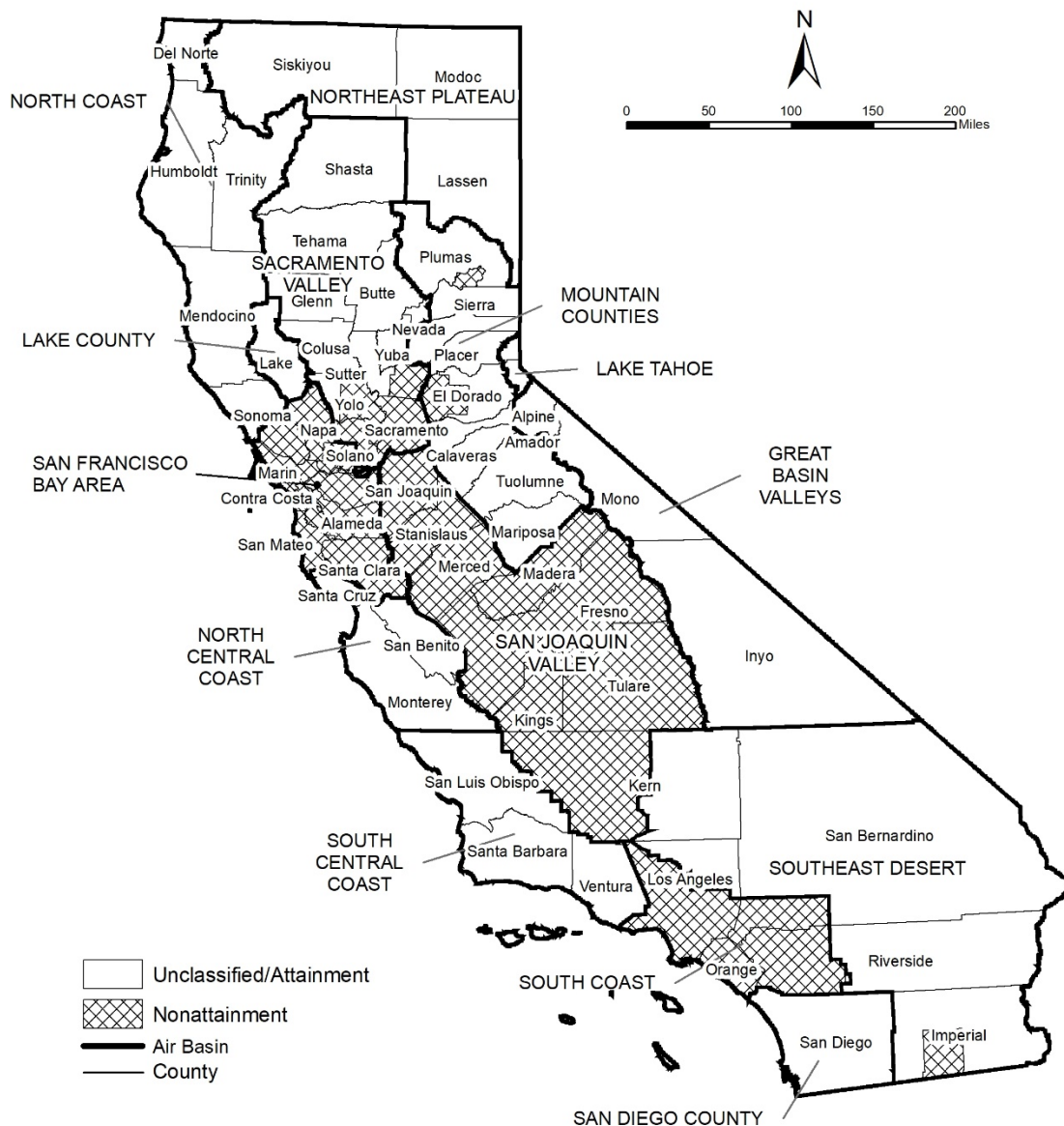
(1) Air quality in Sacramento County meets the national PM10 standards. The request for redesignation to attainment was approved by U.S. EPA in September 2013.

(2) U.S. EPA designation puts the Sacramento Valley Air Basin portion of Placer County in the Mountain Counties Air Basin.

(3) Air quality in Coachella Valley meets the national PM10 standards. A request for redesignation to attainment has been submitted to U.S. EPA.

FIGURE 13

Area Designations for National Ambient Air Quality Standards PM2.5



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 13

**National Ambient Air Quality Standards
Area Designations for Fine Particulate Matter (PM2.5)***

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN (2)	X	
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN	X	
MOUNTAIN COUNTIES AIR BASIN			SOUTH CENTRAL COAST AIR BASIN		X
Plumas County			SOUTH COAST AIR BASIN (3)	X	
- Portola Valley Portion of Plumas	X		SOUTHEAST DESERT AIR BASIN		
- Remainder of Plumas County		X	Imperial County (portion) (4)	X	
Remainder of Air Basin		X	Remainder of Air Basin		X
NORTH CENTRAL COAST AIR BASIN		X			
NORTH COAST AIR BASIN		X			
NORTHEAST PLATEAU AIR BASIN		X			
SACRAMENTO VALLEY AIR BASIN					
Sacramento Metro Area (1)	X				
Sutter County		X			
Yuba County (portion)		X			
Remainder of Air Basin		X			

* Definitions and references for all areas can be found in 40 CFR, Chapter I, Part 81.305. This map reflects the 2006 24-hour PM2.5 standard as well as the 1997 and 2012 PM2.5 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 PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

(2) Air quality in this area meets the national PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 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 PM2.5 standards. A Determination of Attainment for the 2006 24-hour PM2.5 standard was made by U.S. EPA in June 2017.

FIGURE 14

**Area Designations for National
Ambient Air Quality Standards
CARBON MONOXIDE**



Source Date:
October 2018
Air Quality Planning and Science Division

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

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

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

FIGURE 15

**Area Designations for National
Ambient Air Quality Standards
NITROGEN DIOXIDE**



Source Date:
October 2018
Air Quality Planning and Science Division

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

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

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

FIGURE 16



Source Date:
October 2018
Air Quality Planning and Science Division

TABLE 16

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

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		
LAKE COUNTY AIR BASIN		X	San Luis Obispo County		X
LAKE TAHOE AIR BASIN		X	Santa Barbara County		X
MOUNTAIN COUNTIES AIR BASIN		X	Ventura County		X
NORTH CENTRAL COAST AIR BASIN		X	Channel Islands (1)		X
NORTH COAST AIR BASIN		X	SOUTH COAST AIR BASIN		X
NORTHEAST PLATEAU AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		
SACRAMENTO VALLEY AIR BASIN		X	Imperial County		X
SAN DIEGO COUNTY		X	Remainder of Air Basin		X
SAN FRANCISCO BAY AREA AIR BASIN		X			
SAN JOAQUIN VALLEY AIR BASIN					
Fresno County		X			
Kern County (portion)		X			
Kings County		X			
Madera County		X			
Merced County		X			
San Joaquin County		X			
Stanislaus County		X			
Tulare County		X			

* 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 SO₂ 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

Area Designations for National Ambient Air Quality Standards LEAD



TABLE 17

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

	N	U/A		N	U/A
GREAT BASIN VALLEYS AIR BASIN		X	SAN DIEGO COUNTY		X
LAKE COUNTY AIR BASIN		X	SAN FRANCISCO BAY AREA AIR BASIN		X
LAKE TAHOE AIR BASIN		X	SAN JOAQUIN VALLEY AIR BASIN		X
MOUNTAIN COUNTIES AIR BASIN		X	SOUTH CENTRAL COAST AIR BASIN		X
NORTH CENTRAL COAST AIR BASIN		X	SOUTH COAST AIR BASIN		
NORTH COAST AIR BASIN		X	Los Angeles County (portion) (1)	X	
NORTHEAST PLATEAU AIR BASIN		X	Remainder of Air Basin		X
SACRAMENTO VALLEY AIR BASIN		X	SOUTHEAST DESERT AIR BASIN		X

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

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APPENDIX 3.1:

CALEEMOD CONSTRUCTION (UNMITIGATED) EMISSIONS MODEL OUTPUTS

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #1 is expected to be conducted in 55 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #1 is approximately 1.3 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	55.00
tblConstructionPhase	NumDays	155.00	55.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	462,518.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.30
tblTripsAndVMT	HaulingTripLength	20.00	1.30
tblTripsAndVMT	HaulingTripNumber	57,815.00	68,522.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.5853	229.0421	81.9499	0.3733	8.0979	3.7491	11.8470	1.2208	3.4524	4.6732	0.0000	38,402.55 30	38,402.55 30	7.5254	0.0000	38,590.68 86
Maximum	10.5853	229.0421	81.9499	0.3733	8.0979	3.7491	11.8470	1.2208	3.4524	4.6732	0.0000	38,402.55 30	38,402.55 30	7.5254	0.0000	38,590.68 86

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.5853	229.0421	81.9499	0.3733	4.2833	3.7491	8.0323	0.7837	3.4524	4.2360	0.0000	38,402.55 30	38,402.55 30	7.5254	0.0000	38,590.68 86
Maximum	10.5853	229.0421	81.9499	0.3733	4.2833	3.7491	8.0323	0.7837	3.4524	4.2360	0.0000	38,402.55 30	38,402.55 30	7.5254	0.0000	38,590.68 86

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	47.11	0.00	32.20	35.80	0.00	9.35	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	6/11/2021	8/26/2021	5	55	
2	Import Dirt (Hauling from Site #1)	Grading	6/11/2021	8/26/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #1)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #1)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #1)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #1)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #1)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #1)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	1.30	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #1)	5	13.00	0.00	68,522.00	14.70	6.90	1.30	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	2.0680	2.7636	4.8316	0.2233	2.5426	2.7658	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #1) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9510	0.0000	0.9510	0.1440	0.0000	0.1440			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.9510	0.8962	1.8472	0.1440	0.8245	0.9685		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.8228	145.4121	14.0963	0.2462	1.4420	0.0867	1.5287	0.3975	0.0830	0.4805		26,074.3201	26,074.3201	3.6544		26,165.6801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	2.8888	145.4529	14.6345	0.2476	1.5873	0.0876	1.6749	0.4361	0.0838	0.5199		26,216.5505	26,216.5505	3.6585		26,308.0118

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #1) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3709	0.0000	0.3709	0.0562	0.0000	0.0562			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.3709	0.8962	1.2671	0.0562	0.8245	0.8806	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.8228	145.4121	14.0963	0.2462	1.4420	0.0867	1.5287	0.3975	0.0830	0.4805		26,074.3201	26,074.3201	3.6544		26,165.6801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	2.8888	145.4529	14.6345	0.2476	1.5873	0.0876	1.6749	0.4361	0.0838	0.5199		26,216.5505	26,216.5505	3.6585		26,308.0118

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated)**San Bernardino-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #1 is expected to be conducted in 55 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #1 is approximately 1.3 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	55.00
tblConstructionPhase	NumDays	155.00	55.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	462,518.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.30
tblTripsAndVMT	HaulingTripLength	20.00	1.30
tblTripsAndVMT	HaulingTripNumber	57,815.00	68,522.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.9220	223.6944	88.0769	0.3475	8.0979	3.7602	11.8580	1.2208	3.4629	4.6837	0.0000	35,667.74 55	35,667.74 55	7.9989	0.0000	35,867.71 77
Maximum	10.9220	223.6944	88.0769	0.3475	8.0979	3.7602	11.8580	1.2208	3.4629	4.6837	0.0000	35,667.74 55	35,667.74 55	7.9989	0.0000	35,867.71 77

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.9220	223.6944	88.0769	0.3475	4.2833	3.7602	8.0434	0.7837	3.4629	4.2466	0.0000	35,667.74 54	35,667.74 54	7.9989	0.0000	35,867.71 77
Maximum	10.9220	223.6944	88.0769	0.3475	4.2833	3.7602	8.0434	0.7837	3.4629	4.2466	0.0000	35,667.74 54	35,667.74 54	7.9989	0.0000	35,867.71 77

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	47.11	0.00	32.17	35.80	0.00	9.33	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	6/11/2021	8/26/2021	5	55	
2	Import Dirt (Hauling from Site #1)	Grading	6/11/2021	8/26/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #1)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #1)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #1)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #1)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #1)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #1)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	1.30	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #1)	5	13.00	0.00	68,522.00	14.70	6.90	1.30	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	2.0680	2.7636	4.8316	0.2233	2.5426	2.7658	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #1) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9510	0.0000	0.9510	0.1440	0.0000	0.1440			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.9510	0.8962	1.8472	0.1440	0.8245	0.9685		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1591	140.0584	20.4913	0.2207	1.4420	0.0978	1.5397	0.3975	0.0935	0.4911		23,380.0423	23,380.0423	4.1292		23,483.2733
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.2253	140.1014	20.9327	0.2220	1.5873	0.0987	1.6860	0.4361	0.0944	0.5305		23,507.6370	23,507.6370	4.1328		23,610.9568

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #1) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3709	0.0000	0.3709	0.0562	0.0000	0.0562			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.3709	0.8962	1.2671	0.0562	0.8245	0.8806	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1591	140.0584	20.4913	0.2207	1.4420	0.0978	1.5397	0.3975	0.0935	0.4911		23,380.0423	23,380.0423	4.1292		23,483.2733
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.2253	140.1014	20.9327	0.2220	1.5873	0.0987	1.6860	0.4361	0.0944	0.5305		23,507.6370	23,507.6370	4.1328		23,610.9568

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #5 is expected to be conducted in 22 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #3 is approximately 3.0 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	22.00
tblConstructionPhase	NumDays	155.00	22.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	156,222.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripNumber	19,528.00	23,144.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.4976	217.0671	82.0529	0.3905	9.2885	3.7907	13.0792	1.5649	3.4921	5.0570	0.0000	40,235.65 13	40,235.65 13	7.0993	0.0000	40,413.13 41
Maximum	10.4976	217.0671	82.0529	0.3905	9.2885	3.7907	13.0792	1.5649	3.4921	5.0570	0.0000	40,235.65 13	40,235.65 13	7.0993	0.0000	40,413.13 41

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.4976	217.0671	82.0529	0.3905	5.5641	3.7907	9.3548	1.1415	3.4921	4.6336	0.0000	40,235.65 13	40,235.65 13	7.0993	0.0000	40,413.13 41
Maximum	10.4976	217.0671	82.0529	0.3905	5.5641	3.7907	9.3548	1.1415	3.4921	4.6336	0.0000	40,235.65 13	40,235.65 13	7.0993	0.0000	40,413.13 41

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	40.10	0.00	28.48	27.06	0.00	8.37	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	8/27/2021	9/27/2021	5	22	
2	Import Dirt (Hauling from Site #3)	Grading	8/27/2021	9/27/2021	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #3)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #3)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #3)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #3)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #3)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #3)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	3.00	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #3)	5	13.00	0.00	23,144.00	14.70	6.90	3.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	2.0680	2.7636	4.8316	0.2233	2.5426	2.7658	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #3) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8031	0.0000	0.8031	0.1216	0.0000	0.1216			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.8031	0.8962	1.6992	0.1216	0.8245	0.9461		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.7352	133.4370	14.1994	0.2633	2.7806	0.1283	2.9088	0.7640	0.1227	0.8867		27,907.4183	27,907.4183	3.2283		27,988.1255
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	2.8012	133.4778	14.7375	0.2647	2.9259	0.1292	3.0551	0.8026	0.1236	0.9261		28,049.6488	28,049.6488	3.2323		28,130.4572

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #3) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3132	0.0000	0.3132	0.0474	0.0000	0.0474			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.3132	0.8962	1.2094	0.0474	0.8245	0.8719	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.7352	133.4370	14.1994	0.2633	2.7806	0.1283	2.9088	0.7640	0.1227	0.8867		27,907.4183	27,907.4183	3.2283		27,988.1255
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	2.8012	133.4778	14.7375	0.2647	2.9259	0.1292	3.0551	0.8026	0.1236	0.9261		28,049.6488	28,049.6488	3.2323		28,130.4572

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated)**San Bernardino-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #5 is expected to be conducted in 22 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #3 is approximately 3.0 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	22.00
tblConstructionPhase	NumDays	155.00	22.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	156,222.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripNumber	19,528.00	23,144.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.7819	213.0453	87.1739	0.3686	9.2885	3.8000	13.0885	1.5649	3.5010	5.0659	0.0000	37,920.07 24	37,920.07 24	7.4988	0.0000	38,107.54 29
Maximum	10.7819	213.0453	87.1739	0.3686	9.2885	3.8000	13.0885	1.5649	3.5010	5.0659	0.0000	37,920.07 24	37,920.07 24	7.4988	0.0000	38,107.54 29

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.7819	213.0453	87.1739	0.3686	5.5641	3.8000	9.3641	1.1415	3.5010	4.6425	0.0000	37,920.07 24	37,920.07 24	7.4988	0.0000	38,107.54 29
Maximum	10.7819	213.0453	87.1739	0.3686	5.5641	3.8000	9.3641	1.1415	3.5010	4.6425	0.0000	37,920.07 24	37,920.07 24	7.4988	0.0000	38,107.54 29

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	40.10	0.00	28.46	27.06	0.00	8.36	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	8/27/2021	9/27/2021	5	22	
2	Import Dirt (Hauling from Site #3)	Grading	8/27/2021	9/27/2021	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #3)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #3)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #3)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #3)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #3)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #3)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	3.00	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #3)	5	13.00	0.00	23,144.00	14.70	6.90	3.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	2.0680	2.7636	4.8316	0.2233	2.5426	2.7658	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #3) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8031	0.0000	0.8031	0.1216	0.0000	0.1216			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.8031	0.8962	1.6992	0.1216	0.8245	0.9461		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0190	129.4093	19.5883	0.2418	2.7806	0.1376	2.9182	0.7640	0.1317	0.8957		25,632.3693	25,632.3693	3.6292		25,723.0985
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.0852	129.4523	20.0298	0.2431	2.9259	0.1385	3.0644	0.8026	0.1325	0.9351		25,759.9640	25,759.9640	3.6327		25,850.7820

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #3) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3132	0.0000	0.3132	0.0474	0.0000	0.0474			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.3132	0.8962	1.2094	0.0474	0.8245	0.8719	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0190	129.4093	19.5883	0.2418	2.7806	0.1376	2.9182	0.7640	0.1317	0.8957		25,632.3693	25,632.3693	3.6292		25,723.0985
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.0852	129.4523	20.0298	0.2431	2.9259	0.1385	3.0644	0.8026	0.1325	0.9351		25,759.9640	25,759.9640	3.6327		25,850.7820

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #4 is expected to be conducted in 21 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #4 is approximately 3.6 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	21.00
tblConstructionPhase	NumDays	155.00	21.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	168,254.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripNumber	21,032.00	24,928.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.9888	238.4384	84.7903	0.4463	10.3709	3.8290	14.2000	1.8492	3.5288	5.3780	0.0000	46,163.97 75	46,163.97 75	7.5705	0.0000	46,353.23 98
Maximum	10.9888	238.4384	84.7903	0.4463	10.3709	3.8290	14.2000	1.8492	3.5288	5.3780	0.0000	46,163.97 75	46,163.97 75	7.5705	0.0000	46,353.23 98

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.9888	238.4384	84.7903	0.4463	6.5837	3.8290	10.4127	1.4162	3.5288	4.9450	0.0000	46,163.97 75	46,163.97 75	7.5705	0.0000	46,353.23 98
Maximum	10.9888	238.4384	84.7903	0.4463	6.5837	3.8290	10.4127	1.4162	3.5288	4.9450	0.0000	46,163.97 75	46,163.97 75	7.5705	0.0000	46,353.23 98

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	36.52	0.00	26.67	23.41	0.00	8.05	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	9/28/2021	10/26/2021	5	21	
2	Import Dirt (Hauling from Site #4)	Grading	9/28/2021	10/26/2021	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #4)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #4)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #4)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #4)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #4)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #4)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	3.60	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #4)	5	13.00	0.00	24,928.00	14.70	6.90	3.60	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	2.0680	2.7636	4.8316	0.2233	2.5426	2.7658	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #4) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9061	0.0000	0.9061	0.1372	0.0000	0.1372			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.9061	0.8962	1.8022	0.1372	0.8245	0.9617		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.2263	154.8084	16.9367	0.3191	3.7600	0.1667	3.9266	1.0327	0.1595	1.1921		33,835.7445	33,835.7445	3.6995		33,928.2312
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.2923	154.8492	17.4749	0.3206	3.9053	0.1676	4.0729	1.0712	0.1603	1.2315		33,977.9750	33,977.9750	3.7035		34,070.5629

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #4) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3534	0.0000	0.3534	0.0535	0.0000	0.0535			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.3534	0.8962	1.2495	0.0535	0.8245	0.8780	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.2263	154.8084	16.9367	0.3191	3.7600	0.1667	3.9266	1.0327	0.1595	1.1921		33,835.7445	33,835.7445	3.6995		33,928.2312
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.2923	154.8492	17.4749	0.3206	3.9053	0.1676	4.0729	1.0712	0.1603	1.2315		33,977.9750	33,977.9750	3.7035		34,070.5629

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated)**San Bernardino-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #4 is expected to be conducted in 21 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #4 is approximately 3.6 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	21.00
tblConstructionPhase	NumDays	155.00	21.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	168,254.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripNumber	21,032.00	24,928.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.3094	234.0959	90.5987	0.4217	10.3709	3.8396	14.2105	1.8492	3.5389	5.3881	0.0000	43,556.34 54	43,556.34 54	8.0214	0.0000	43,756.88 11
Maximum	11.3094	234.0959	90.5987	0.4217	10.3709	3.8396	14.2105	1.8492	3.5389	5.3881	0.0000	43,556.34 54	43,556.34 54	8.0214	0.0000	43,756.88 11

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.3094	234.0959	90.5987	0.4217	6.5837	3.8396	10.4233	1.4162	3.5389	4.9551	0.0000	43,556.34 54	43,556.34 54	8.0214	0.0000	43,756.88 11
Maximum	11.3094	234.0959	90.5987	0.4217	6.5837	3.8396	10.4233	1.4162	3.5389	4.9551	0.0000	43,556.34 54	43,556.34 54	8.0214	0.0000	43,756.88 11

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	36.52	0.00	26.65	23.41	0.00	8.04	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	9/28/2021	10/26/2021	5	21	
2	Import Dirt (Hauling from Site #4)	Grading	9/28/2021	10/26/2021	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #4)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #4)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #4)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #4)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #4)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #4)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	3.60	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #4)	5	13.00	0.00	24,928.00	14.70	6.90	3.60	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	2.0680	2.7636	4.8316	0.2233	2.5426	2.7658	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #4) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9061	0.0000	0.9061	0.1372	0.0000	0.1372			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.9061	0.8962	1.8022	0.1372	0.8245	0.9617		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.5465	150.4600	23.0131	0.2949	3.7600	0.1772	3.9372	1.0327	0.1695	1.2022		31,268.6423	31,268.6423	4.1518		31,372.4368
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.6127	150.5029	23.4546	0.2962	3.9053	0.1781	4.0834	1.0712	0.1704	1.2416		31,396.2370	31,396.2370	4.1553		31,500.1203

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #4) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3534	0.0000	0.3534	0.0535	0.0000	0.0535			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.3534	0.8962	1.2495	0.0535	0.8245	0.8780	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.5465	150.4600	23.0131	0.2949	3.7600	0.1772	3.9372	1.0327	0.1695	1.2022		31,268.6423	31,268.6423	4.1518		31,372.4368
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.6127	150.5029	23.4546	0.2962	3.9053	0.1781	4.0834	1.0712	0.1704	1.2416		31,396.2370	31,396.2370	4.1553		31,500.1203

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #5 is expected to be conducted in 11 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #5 is approximately 4.2 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	11.00
tblConstructionPhase	NumDays	155.00	11.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	98,867.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblTripsAndVMT	HaulingTripNumber	12,358.00	14,648.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.5388	262.0533	87.8792	0.5100	11.6375	3.8739	15.5115	2.1830	3.5718	5.7548	0.0000	52,916.86 93	52,916.86 93	8.0848	0.0000	53,118.98 87
Maximum	11.5388	262.0533	87.8792	0.5100	11.6375	3.8739	15.5115	2.1830	3.5718	5.7548	0.0000	52,916.86 93	52,916.86 93	8.0848	0.0000	53,118.98 87

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.5388	262.0533	87.8792	0.5100	7.7830	3.8739	11.6569	1.7399	3.5718	5.3117	0.0000	52,916.86 93	52,916.86 93	8.0848	0.0000	53,118.98 87
Maximum	11.5388	262.0533	87.8792	0.5100	7.7830	3.8739	11.6569	1.7399	3.5718	5.3117	0.0000	52,916.86 93	52,916.86 93	8.0848	0.0000	53,118.98 87

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	33.12	0.00	24.85	20.30	0.00	7.70	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	10/27/2021	11/10/2021	5	11	
2	Import Dirt (Hauling from Site #5)	Grading	10/27/2021	11/10/2021	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #5)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #5)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #5)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #5)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #5)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #5)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	4.20	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #5)	5	13.00	0.00	14,648.00	14.70	6.90	4.20	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	2.0680	2.7636	4.8316	0.2233	2.5426	2.7658	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #5) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0164	0.0000	1.0164	0.1539	0.0000	0.1539			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	1.0164	0.8962	1.9126	0.1539	0.8245	0.9784		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7763	178.4233	20.0257	0.3828	4.9162	0.2116	5.1278	1.3498	0.2024	1.5522		40,588.6364	40,588.6364	4.2138		40,693.9801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.8424	178.4641	20.5638	0.3842	5.0615	0.2125	5.2740	1.3884	0.2033	1.5916		40,730.8668	40,730.8668	4.2178		40,836.3118

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #5) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3964	0.0000	0.3964	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.3964	0.8962	1.2926	0.0600	0.8245	0.8845	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7763	178.4233	20.0257	0.3828	4.9162	0.2116	5.1278	1.3498	0.2024	1.5522		40,588.6364	40,588.6364	4.2138		40,693.9801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.8424	178.4641	20.5638	0.3842	5.0615	0.2125	5.2740	1.3884	0.2033	1.5916		40,730.8668	40,730.8668	4.2178		40,836.3118

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated)**San Bernardino-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #5 is expected to be conducted in 11 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #5 is approximately 4.2 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	11.00
tblConstructionPhase	NumDays	155.00	11.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	98,867.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblTripsAndVMT	HaulingTripNumber	12,358.00	14,648.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.8984	257.4014	94.4229	0.4823	11.6375	3.8858	15.5233	2.1830	3.5831	5.7661	0.0000	49,996.5505	49,996.5505	8.5908	0.0000	50,211.3198
Maximum	11.8984	257.4014	94.4229	0.4823	11.6375	3.8858	15.5233	2.1830	3.5831	5.7661	0.0000	49,996.5505	49,996.5505	8.5908	0.0000	50,211.3198

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.8984	257.4014	94.4229	0.4823	7.7830	3.8858	11.6687	1.7399	3.5831	5.3230	0.0000	49,996.5505	49,996.5505	8.5908	0.0000	50,211.3198
Maximum	11.8984	257.4014	94.4229	0.4823	7.7830	3.8858	11.6687	1.7399	3.5831	5.3230	0.0000	49,996.5505	49,996.5505	8.5908	0.0000	50,211.3198

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	33.12	0.00	24.83	20.30	0.00	7.69	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	10/27/2021	11/10/2021	5	11	
2	Import Dirt (Hauling from Site #5)	Grading	10/27/2021	11/10/2021	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #5)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #5)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #5)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #5)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #5)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #5)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	4.20	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #5)	5	13.00	0.00	14,648.00	14.70	6.90	4.20	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	2.0680	2.7636	4.8316	0.2233	2.5426	2.7658	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #5) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0164	0.0000	1.0164	0.1539	0.0000	0.1539			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	1.0164	0.8962	1.9126	0.1539	0.8245	0.9784		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1355	173.7655	26.8373	0.3556	4.9162	0.2234	5.1396	1.3498	0.2137	1.5636		37,708.8474	37,708.8474	4.7211		37,826.8754
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	4.2017	173.8084	27.2788	0.3568	5.0615	0.2243	5.2858	1.3884	0.2146	1.6029		37,836.4421	37,836.4421	4.7247		37,954.5589

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #5) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3964	0.0000	0.3964	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.3964	0.8962	1.2926	0.0600	0.8245	0.8845	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1355	173.7655	26.8373	0.3556	4.9162	0.2234	5.1396	1.3498	0.2137	1.5636		37,708.8474	37,708.8474	4.7211		37,826.8754
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	4.2017	173.8084	27.2788	0.3568	5.0615	0.2243	5.2858	1.3884	0.2146	1.6029		37,836.4421	37,836.4421	4.7247		37,954.5589

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #2 is expected to be conducted in 6 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #2 is approximately 1.5 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	6.00
tblConstructionPhase	NumDays	155.00	6.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	54,490.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.50
tblTripsAndVMT	HaulingTripLength	20.00	1.50
tblTripsAndVMT	HaulingTripNumber	6,811.00	8,074.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.8643	242.2947	83.4248	0.4014	8.5246	3.7643	12.2890	1.3286	3.4669	4.7956	0.0000	41,377.92 17	41,377.92 17	7.8397	0.0000	41,573.91 29
Maximum	10.8643	242.2947	83.4248	0.4014	8.5246	3.7643	12.2890	1.3286	3.4669	4.7956	0.0000	41,377.92 17	41,377.92 17	7.8397	0.0000	41,573.91 29

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.8643	242.2947	83.4248	0.4014	4.6636	3.7643	8.4280	0.8845	3.4669	4.3514	0.0000	41,377.92 17	41,377.92 17	7.8397	0.0000	41,573.91 29
Maximum	10.8643	242.2947	83.4248	0.4014	4.6636	3.7643	8.4280	0.8845	3.4669	4.3514	0.0000	41,377.92 17	41,377.92 17	7.8397	0.0000	41,573.91 29

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	45.29	0.00	31.42	33.43	0.00	9.26	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	11/11/2021	11/18/2021	5	6	
2	Import Dirt (Hauling from Site #2)	Grading	11/11/2021	11/18/2021	5	6	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #2)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #2)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #2)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #2)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #2)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #2)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	1.50	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #2)	5	13.00	0.00	8,074.00	14.70	6.90	1.50	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	2.0680	2.7636	4.8316	0.2233	2.5426	2.7658	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #2) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0270	0.0000	1.0270	0.1555	0.0000	0.1555			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	1.0270	0.8962	1.9232	0.1555	0.8245	0.9800		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1019	158.6647	15.5712	0.2742	1.7927	0.1020	1.8947	0.4939	0.0975	0.5914		29,049.6888	29,049.6888	3.9686		29,148.9043
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.1679	158.7055	16.1094	0.2756	1.9380	0.1029	2.0409	0.5324	0.0984	0.6308		29,191.9193	29,191.9193	3.9727		29,291.2360

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #2) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4006	0.0000	0.4006	0.0607	0.0000	0.0607			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.4006	0.8962	1.2967	0.0607	0.8245	0.8851	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1019	158.6647	15.5712	0.2742	1.7927	0.1020	1.8947	0.4939	0.0975	0.5914		29,049.6888	29,049.6888	3.9686		29,148.9043
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.1679	158.7055	16.1094	0.2756	1.9380	0.1029	2.0409	0.5324	0.0984	0.6308		29,191.9193	29,191.9193	3.9727		29,291.2360

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated)**San Bernardino-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #2 is expected to be conducted in 6 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #2 is approximately 1.5 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	6.00
tblConstructionPhase	NumDays	155.00	6.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00

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tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	54,490.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.50
tblTripsAndVMT	HaulingTripLength	20.00	1.50
tblTripsAndVMT	HaulingTripNumber	6,811.00	8,074.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.2279	236.5922	90.0625	0.3735	8.5246	3.7763	12.3009	1.3286	3.4784	4.8070	0.0000	38,427.26 11	38,427.26 11	8.3511	0.0000	38,636.03 96
Maximum	11.2279	236.5922	90.0625	0.3735	8.5246	3.7763	12.3009	1.3286	3.4784	4.8070	0.0000	38,427.26 11	38,427.26 11	8.3511	0.0000	38,636.03 96

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.2279	236.5922	90.0625	0.3735	4.6636	3.7763	8.4399	0.8845	3.4784	4.3629	0.0000	38,427.26 11	38,427.26 11	8.3511	0.0000	38,636.03 96
Maximum	11.2279	236.5922	90.0625	0.3735	4.6636	3.7763	8.4399	0.8845	3.4784	4.3629	0.0000	38,427.26 11	38,427.26 11	8.3511	0.0000	38,636.03 96

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	45.29	0.00	31.39	33.43	0.00	9.24	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	11/11/2021	11/18/2021	5	6	
2	Import Dirt (Hauling from Site #2)	Grading	11/11/2021	11/18/2021	5	6	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #2)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #2)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #2)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #2)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #2)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #2)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	1.50	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #2)	5	13.00	0.00	8,074.00	14.70	6.90	1.50	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	2.0680	2.7636	4.8316	0.2233	2.5426	2.7658	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #2) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0270	0.0000	1.0270	0.1555	0.0000	0.1555			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	1.0270	0.8962	1.9232	0.1555	0.8245	0.9800		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4651	152.9563	22.4769	0.2467	1.7927	0.1139	1.9066	0.4939	0.1090	0.6028		26,139.5580	26,139.5580	4.4815		26,251.5952
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.5313	152.9993	22.9183	0.2480	1.9380	0.1148	2.0528	0.5324	0.1098	0.6422		26,267.1527	26,267.1527	4.4850		26,379.2787

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #2) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4006	0.0000	0.4006	0.0607	0.0000	0.0607			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.4006	0.8962	1.2967	0.0607	0.8245	0.8851	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4651	152.9563	22.4769	0.2467	1.7927	0.1139	1.9066	0.4939	0.1090	0.6028		26,139.5580	26,139.5580	4.4815		26,251.5952
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.5313	152.9993	22.9183	0.2480	1.9380	0.1148	2.0528	0.5324	0.1098	0.6422		26,267.1527	26,267.1527	4.4850		26,379.2787

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas s Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Construction Process (Construction - Unmitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Project Area is 96.64 acres.

Construction Phase - Construction Schedule adjusted to meet the 2022 OY.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment -

Grading - Based on the Equipment List the total acres graded per day is 5.0 acres for grading activities.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstructionPhase	NumDays	110.00	190.00
tblConstructionPhase	NumDays	1,550.00	220.00
tblConstructionPhase	NumDays	155.00	60.00
tblConstructionPhase	PhaseEndDate	4/5/2029	12/15/2022
tblConstructionPhase	PhaseEndDate	6/1/2028	12/15/2022
tblConstructionPhase	PhaseEndDate	6/23/2022	2/10/2022
tblConstructionPhase	PhaseEndDate	11/2/2028	12/15/2022
tblConstructionPhase	PhaseStartDate	11/3/2028	3/25/2022

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblConstructionPhase	PhaseStartDate	6/24/2022	2/11/2022
tblConstructionPhase	PhaseStartDate	6/2/2028	7/15/2022
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	0.00	300.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblVehicleTrips	CC_TL	8.40	0.00

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.4771	23.3927	29.9419	0.0469	5.5596	1.2056	6.7652	0.6407	1.1091	1.7499	0.0000	4,551.447 4	4,551.447 4	1.3978	0.0000	4,586.392 6
2022	68.3001	99.1157	127.5852	0.4677	28.3969	1.7863	30.1831	7.6317	1.6726	9.3043	0.0000	47,466.43 69	47,466.43 69	3.2098	0.0000	47,546.68 20
Maximum	68.3001	99.1157	127.5852	0.4677	28.3969	1.7863	30.1831	7.6317	1.6726	9.3043	0.0000	47,466.43 69	47,466.43 69	3.2098	0.0000	47,546.68 20

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.4771	23.3927	29.9419	0.0469	2.3251	1.2056	3.5307	0.2915	1.1091	1.4006	0.0000	4,551.447 4	4,551.447 4	1.3978	0.0000	4,586.392 6
2022	68.3001	99.1157	127.5852	0.4677	28.3969	1.7863	30.1831	7.6317	1.6726	9.3043	0.0000	47,466.43 69	47,466.43 69	3.2098	0.0000	47,546.68 20
Maximum	68.3001	99.1157	127.5852	0.4677	28.3969	1.7863	30.1831	7.6317	1.6726	9.3043	0.0000	47,466.43 69	47,466.43 69	3.2098	0.0000	47,546.68 20

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	9.53	0.00	8.75	4.22	0.00	3.16	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4828	3.4200e-003	0.3747	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003	0.0000	0.8548

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4828	3.4200e-003	0.3747	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003	0.0000	0.8548

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/19/2021	2/10/2022	5	60	
2	Building Construction	Building Construction	2/11/2022	12/15/2022	5	220	
3	Architectural Coating	Architectural Coating	3/25/2022	12/15/2022	5	190	
4	Paving	Paving	7/15/2022	12/15/2022	5	110	

Acres of Grading (Site Preparation Phase): 0**Acres of Grading (Grading Phase): 300****Acres of Paving: 49.13****Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,124,050; Non-Residential Outdoor: 1,041,350; Striped Parking Area: 128,400 (Architectural Coating – sqft)****OffRoad Equipment**

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	5	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Other Construction Equipment	2	8.00	172	0.42
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,774.00	692.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	355.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	2.3602	23.3205	28.9898	0.0444		1.2039	1.2039		1.1076	1.1076		4,299.8089	4,299.8089	1.3907		4,334.5750
Total	2.3602	23.3205	28.9898	0.0444	5.3025	1.2039	6.5064	0.5726	1.1076	1.6802		4,299.8089	4,299.8089	1.3907		4,334.5750

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Grading - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3602	23.3205	28.9898	0.0444		1.2039	1.2039		1.1076	1.1076	0.0000	4,299.8089	4,299.8089	1.3907		4,334.5750
Total	2.3602	23.3205	28.9898	0.0444	2.0680	1.2039	3.2719	0.2233	1.1076	1.3309	0.0000	4,299.8089	4,299.8089	1.3907		4,334.5750

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	2.0935	19.8664	28.7921	0.0444		1.0079	1.0079		0.9273	0.9273		4,299.2168	4,299.2168	1.3905		4,333.9781
Total	2.0935	19.8664	28.7921	0.0444	5.3025	1.0079	6.3104	0.5726	0.9273	1.4999		4,299.2168	4,299.2168	1.3905		4,333.9781

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1091	0.0650	0.8747	2.4400e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		242.5586	242.5586	6.4200e-003		242.7192
Total	0.1091	0.0650	0.8747	2.4400e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		242.5586	242.5586	6.4200e-003		242.7192

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.2 Grading - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.0935	19.8664	28.7921	0.0444		1.0079	1.0079		0.9273	0.9273	0.0000	4,299.2168	4,299.2168	1.3905		4,333.9781
Total	2.0935	19.8664	28.7921	0.0444	2.0680	1.0079	3.0759	0.2233	0.9273	1.1506	0.0000	4,299.2168	4,299.2168	1.3905		4,333.9781

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1091	0.0650	0.8747	2.4400e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		242.5586	242.5586	6.4200e-003		242.7192
Total	0.1091	0.0650	0.8747	2.4400e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		242.5586	242.5586	6.4200e-003		242.7192

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6682	63.2917	11.6100	0.1851	4.4320	0.0961	4.5281	1.2761	0.0919	1.3680		19,535.6847	19,535.6847	1.2015		19,565.7213
Worker	8.4175	5.0094	67.4661	0.1878	19.8291	0.1231	19.9523	5.2588	0.1134	5.3722		18,708.6470	18,708.6470	0.4955		18,721.0342
Total	10.0857	68.3010	79.0761	0.3729	24.2611	0.2192	24.4804	6.5349	0.2053	6.7402		38,244.3316	38,244.3316	1.6970		38,286.7555

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.3 Building Construction - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6682	63.2917	11.6100	0.1851	4.4320	0.0961	4.5281	1.2761	0.0919	1.3680		19,535.6847	19,535.6847	1.2015		19,565.7213
Worker	8.4175	5.0094	67.4661	0.1878	19.8291	0.1231	19.9523	5.2588	0.1134	5.3722		18,708.6470	18,708.6470	0.4955		18,721.0342
Total	10.0857	68.3010	79.0761	0.3729	24.2611	0.2192	24.4804	6.5349	0.2053	6.7402		38,244.3316	38,244.3316	1.6970		38,286.7555

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.4 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.3731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	52.6458	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.6845	1.0024	13.5008	0.0376	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,743.8386	3,743.8386	0.0992		3,746.3174
Total	1.6845	1.0024	13.5008	0.0376	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,743.8386	3,743.8386	0.0992		3,746.3174

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.4 Architectural Coating - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.3731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	52.6458	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.6845	1.0024	13.5008	0.0376	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,743.8386	3,743.8386	0.0992		3,746.3174
Total	1.6845	1.0024	13.5008	0.0376	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,743.8386	3,743.8386	0.0992		3,746.3174

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.8956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9984	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

3.5 Paving - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.8956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9984	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951

4.0 Operational Detail - Mobile

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Refrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Unmitigated	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Total	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Total	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Construction Process (Construction - Unmitigated)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Project Area is 96.64 acres.

Construction Phase - Construction Schedule adjusted to meet the 2022 OY.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment -

Grading - Based on the Equipment List the total acres graded per day is 5.0 acres for grading activities.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Rule 403

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstructionPhase	NumDays	110.00	190.00
tblConstructionPhase	NumDays	1,550.00	220.00
tblConstructionPhase	NumDays	155.00	60.00
tblConstructionPhase	PhaseEndDate	4/5/2029	12/15/2022
tblConstructionPhase	PhaseEndDate	6/1/2028	12/15/2022
tblConstructionPhase	PhaseEndDate	6/23/2022	2/10/2022
tblConstructionPhase	PhaseEndDate	11/2/2028	12/15/2022
tblConstructionPhase	PhaseStartDate	11/3/2028	3/25/2022

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblConstructionPhase	PhaseStartDate	6/24/2022	2/11/2022
tblConstructionPhase	PhaseStartDate	6/2/2028	7/15/2022
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	0.00	300.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblVehicleTrips	CC_TL	8.40	0.00

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.4773	23.3965	29.7708	0.0467	5.5596	1.2056	6.7652	0.6407	1.1091	1.7499	0.0000	4,525.553 4	4,525.553 4	1.3969	0.0000	4,560.476 6
2022	68.4522	98.6823	114.8421	0.4370	28.3969	1.7891	30.1860	7.6317	1.6753	9.3070	0.0000	44,376.37 90	44,376.37 90	3.2690	0.0000	44,458.10 28
Maximum	68.4522	98.6823	114.8421	0.4370	28.3969	1.7891	30.1860	7.6317	1.6753	9.3070	0.0000	44,376.37 90	44,376.37 90	3.2690	0.0000	44,458.10 28

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.4773	23.3965	29.7708	0.0467	2.3251	1.2056	3.5307	0.2915	1.1091	1.4006	0.0000	4,525.553 4	4,525.553 4	1.3969	0.0000	4,560.476 6
2022	68.4522	98.6823	114.8421	0.4370	28.3969	1.7891	30.1860	7.6317	1.6753	9.3070	0.0000	44,376.37 90	44,376.37 90	3.2690	0.0000	44,458.10 28
Maximum	68.4522	98.6823	114.8421	0.4370	28.3969	1.7891	30.1860	7.6317	1.6753	9.3070	0.0000	44,376.37 90	44,376.37 90	3.2690	0.0000	44,458.10 28

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	9.53	0.00	8.75	4.22	0.00	3.16	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4828	3.4200e-003	0.3747	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003	0.0000	0.8548

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4828	3.4200e-003	0.3747	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003	0.0000	0.8548

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/19/2021	2/10/2022	5	60	
2	Building Construction	Building Construction	2/11/2022	12/15/2022	5	220	
3	Architectural Coating	Architectural Coating	3/25/2022	12/15/2022	5	190	
4	Paving	Paving	7/15/2022	12/15/2022	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 300

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,124,050; Non-Residential Outdoor: 1,041,350; Striped Parking Area: 128,400 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	5	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Other Construction Equipment	2	8.00	172	0.42
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,774.00	692.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	355.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	2.3602	23.3205	28.9898	0.0444		1.2039	1.2039		1.1076	1.1076		4,299.8089	4,299.8089	1.3907		4,334.5750
Total	2.3602	23.3205	28.9898	0.0444	5.3025	1.2039	6.5064	0.5726	1.1076	1.6802		4,299.8089	4,299.8089	1.3907		4,334.5750

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Grading - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3602	23.3205	28.9898	0.0444		1.2039	1.2039		1.1076	1.1076	0.0000	4,299.8089	4,299.8089	1.3907		4,334.5750
Total	2.3602	23.3205	28.9898	0.0444	2.0680	1.2039	3.2719	0.2233	1.1076	1.3309	0.0000	4,299.8089	4,299.8089	1.3907		4,334.5750

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	2.0935	19.8664	28.7921	0.0444		1.0079	1.0079		0.9273	0.9273		4,299.2168	4,299.2168	1.3905		4,333.9781
Total	2.0935	19.8664	28.7921	0.0444	5.3025	1.0079	6.3104	0.5726	0.9273	1.4999		4,299.2168	4,299.2168	1.3905		4,333.9781

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1097	0.0683	0.7163	2.1800e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		217.6136	217.6136	5.6400e-003		217.7546
Total	0.1097	0.0683	0.7163	2.1800e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		217.6136	217.6136	5.6400e-003		217.7546

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.2 Grading - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.0935	19.8664	28.7921	0.0444		1.0079	1.0079		0.9273	0.9273	0.0000	4,299.2168	4,299.2168	1.3905		4,333.9781
Total	2.0935	19.8664	28.7921	0.0444	2.0680	1.0079	3.0759	0.2233	0.9273	1.1506	0.0000	4,299.2168	4,299.2168	1.3905		4,333.9781

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1097	0.0683	0.7163	2.1800e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		217.6136	217.6136	5.6400e-003		217.7546
Total	0.1097	0.0683	0.7163	2.1800e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		217.6136	217.6136	5.6400e-003		217.7546

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7718	62.5475	13.6361	0.1779	4.4320	0.0989	4.5309	1.2761	0.0946	1.3707		18,770.9327	18,770.9327	1.3337		18,804.2759
Worker	8.4576	5.2665	55.2457	0.1684	19.8291	0.1231	19.9523	5.2588	0.1134	5.3722		16,784.6298	16,784.6298	0.4350		16,795.5046
Total	10.2294	67.8140	68.8818	0.3463	24.2611	0.2221	24.4832	6.5349	0.2080	6.7429		35,555.5625	35,555.5625	1.7687		35,599.7805

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.3 Building Construction - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122	0.0000	2,737.1520	2,737.1520	0.6711		2,753.9288

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7718	62.5475	13.6361	0.1779	4.4320	0.0989	4.5309	1.2761	0.0946	1.3707		18,770.9327	18,770.9327	1.3337		18,804.2759
Worker	8.4576	5.2665	55.2457	0.1684	19.8291	0.1231	19.9523	5.2588	0.1134	5.3722		16,784.6298	16,784.6298	0.4350		16,795.5046
Total	10.2294	67.8140	68.8818	0.3463	24.2611	0.2221	24.4832	6.5349	0.2080	6.7429		35,555.5625	35,555.5625	1.7687		35,599.7805

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.4 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.3731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	52.6458	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.6925	1.0539	11.0554	0.0337	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,358.8183	3,358.8183	0.0871		3,360.9944
Total	1.6925	1.0539	11.0554	0.0337	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,358.8183	3,358.8183	0.0871		3,360.9944

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.4 Architectural Coating - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.3731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749
Total	52.6458	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090	0.0000	375.2641	375.2641	0.0244		375.8749

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.6925	1.0539	11.0554	0.0337	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,358.8183	3,358.8183	0.0871		3,360.9944
Total	1.6925	1.0539	11.0554	0.0337	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,358.8183	3,358.8183	0.0871		3,360.9944

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.8956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9984	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

3.5 Paving - 2022**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.8956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9984	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225	0.0000	2,207.660 3	2,207.660 3	0.7140		2,225.510 4

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139

4.0 Operational Detail - Mobile

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Refrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Unmitigated	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Total	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Total	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Construction Process (Construction - Unmitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.2:

CALEEMOD CONSTRUCTION (MITIGATED) EMISSIONS MODEL OUTPUTS

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #1 is expected to be conducted in 55 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #1 is approximately 1.3 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	155.00	55.00
tblConstructionPhase	NumDays	155.00	55.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	462,518.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.30
tblTripsAndVMT	HaulingTripLength	20.00	1.30
tblTripsAndVMT	HaulingTripNumber	57,815.00	68,522.00
tblVehicleTrips	CC_TL	8.40	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.5853	229.0421	81.9499	0.3733	8.0979	3.7491	11.8470	1.2208	3.4524	4.6732	0.0000	38,402.55 30	38,402.55 30	7.5254	0.0000	38,590.68 86
Maximum	10.5853	229.0421	81.9499	0.3733	8.0979	3.7491	11.8470	1.2208	3.4524	4.6732	0.0000	38,402.55 30	38,402.55 30	7.5254	0.0000	38,590.68 86

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.0404	204.7272	92.0677	0.3733	4.2833	2.6501	6.9334	0.7837	2.6461	3.4298	0.0000	38,402.55 30	38,402.55 30	7.5254	0.0000	38,590.68 86
Maximum	6.0404	204.7272	92.0677	0.3733	4.2833	2.6501	6.9334	0.7837	2.6461	3.4298	0.0000	38,402.55 30	38,402.55 30	7.5254	0.0000	38,590.68 86

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	42.94	10.62	-12.35	0.00	47.11	29.31	41.48	35.80	23.35	26.61	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	6/11/2021	8/26/2021	5	55	
2	Import Dirt (Hauling from Site #1)	Grading	6/11/2021	8/26/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #1)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #1)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #1)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #1)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #1)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #1)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	1.30	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #1)	5	13.00	0.00	68,522.00	14.70	6.90	1.30	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3219	45.4210	54.5025	0.0944		1.8955	1.8955		1.8955	1.8955	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	2.3219	45.4210	54.5025	0.0944	2.0680	1.8955	3.9635	0.2233	1.8955	2.1188	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #1) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9510	0.0000	0.9510	0.1440	0.0000	0.1440			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.9510	0.8962	1.8472	0.1440	0.8245	0.9685		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.8228	145.4121	14.0963	0.2462	1.4420	0.0867	1.5287	0.3975	0.0830	0.4805		26,074.3201	26,074.3201	3.6544		26,165.6801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	2.8888	145.4529	14.6345	0.2476	1.5873	0.0876	1.6749	0.4361	0.0838	0.5199		26,216.5505	26,216.5505	3.6585		26,308.0118

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #1) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3709	0.0000	0.3709	0.0562	0.0000	0.0562			0.0000			0.0000
Off-Road	0.7128	13.7811	21.9785	0.0289		0.6653	0.6653		0.6653	0.6653	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	0.7128	13.7811	21.9785	0.0289	0.3709	0.6653	1.0362	0.0562	0.6653	0.7215	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.8228	145.4121	14.0963	0.2462	1.4420	0.0867	1.5287	0.3975	0.0830	0.4805		26,074.3201	26,074.3201	3.6544		26,165.6801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	2.8888	145.4529	14.6345	0.2476	1.5873	0.0876	1.6749	0.4361	0.0838	0.5199		26,216.5505	26,216.5505	3.6585		26,308.0118

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated)**San Bernardino-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #1 is expected to be conducted in 55 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #1 is approximately 1.3 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	155.00	55.00
tblConstructionPhase	NumDays	155.00	55.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	462,518.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.30
tblTripsAndVMT	HaulingTripLength	20.00	1.30
tblTripsAndVMT	HaulingTripNumber	57,815.00	68,522.00
tblVehicleTrips	CC_TL	8.40	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.9220	223.6944	88.0769	0.3475	8.0979	3.7602	11.8580	1.2208	3.4629	4.6837	0.0000	35,667.74 55	35,667.74 55	7.9989	0.0000	35,867.71 77
Maximum	10.9220	223.6944	88.0769	0.3475	8.0979	3.7602	11.8580	1.2208	3.4629	4.6837	0.0000	35,667.74 55	35,667.74 55	7.9989	0.0000	35,867.71 77

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.3771	199.3795	98.1947	0.3475	4.2833	2.6612	6.9444	0.7837	2.6567	3.4404	0.0000	35,667.74 54	35,667.74 54	7.9989	0.0000	35,867.71 77
Maximum	6.3771	199.3795	98.1947	0.3475	4.2833	2.6612	6.9444	0.7837	2.6567	3.4404	0.0000	35,667.74 54	35,667.74 54	7.9989	0.0000	35,867.71 77

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	41.61	10.87	-11.49	0.00	47.11	29.23	41.44	35.80	23.28	26.55	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	6/11/2021	8/26/2021	5	55	
2	Import Dirt (Hauling from Site #1)	Grading	6/11/2021	8/26/2021	5	55	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #1)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #1)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #1)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #1)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #1)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #1)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	1.30	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #1)	5	13.00	0.00	68,522.00	14.70	6.90	1.30	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3219	45.4210	54.5025	0.0944		1.8955	1.8955		1.8955	1.8955	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	2.3219	45.4210	54.5025	0.0944	2.0680	1.8955	3.9635	0.2233	1.8955	2.1188	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #1) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9510	0.0000	0.9510	0.1440	0.0000	0.1440			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.9510	0.8962	1.8472	0.1440	0.8245	0.9685		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1591	140.0584	20.4913	0.2207	1.4420	0.0978	1.5397	0.3975	0.0935	0.4911		23,380.0423	23,380.0423	4.1292		23,483.2733
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.2253	140.1014	20.9327	0.2220	1.5873	0.0987	1.6860	0.4361	0.0944	0.5305		23,507.6370	23,507.6370	4.1328		23,610.9568

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #1) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3709	0.0000	0.3709	0.0562	0.0000	0.0562			0.0000			0.0000
Off-Road	0.7128	13.7811	21.9785	0.0289		0.6653	0.6653		0.6653	0.6653	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	0.7128	13.7811	21.9785	0.0289	0.3709	0.6653	1.0362	0.0562	0.6653	0.7215	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1591	140.0584	20.4913	0.2207	1.4420	0.0978	1.5397	0.3975	0.0935	0.4911		23,380.0423	23,380.0423	4.1292		23,483.2733
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.2253	140.1014	20.9327	0.2220	1.5873	0.0987	1.6860	0.4361	0.0944	0.5305		23,507.6370	23,507.6370	4.1328		23,610.9568

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #1 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #5 is expected to be conducted in 22 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #3 is approximately 3.0 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	155.00	22.00
tblConstructionPhase	NumDays	155.00	22.00
tblEnergyUse	LightingElect	0.35	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	156,222.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripNumber	19,528.00	23,144.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.4976	217.0671	82.0529	0.3905	9.2885	3.7907	13.0792	1.5649	3.4921	5.0570	0.0000	40,235.65 13	40,235.65 13	7.0993	0.0000	40,413.13 41
Maximum	10.4976	217.0671	82.0529	0.3905	9.2885	3.7907	13.0792	1.5649	3.4921	5.0570	0.0000	40,235.65 13	40,235.65 13	7.0993	0.0000	40,413.13 41

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	5.9527	192.7522	92.1707	0.3905	5.5641	2.6917	8.2558	1.1415	2.6859	3.8274	0.0000	40,235.65 13	40,235.65 13	7.0993	0.0000	40,413.13 41
Maximum	5.9527	192.7522	92.1707	0.3905	5.5641	2.6917	8.2558	1.1415	2.6859	3.8274	0.0000	40,235.65 13	40,235.65 13	7.0993	0.0000	40,413.13 41

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	43.29	11.20	-12.33	0.00	40.10	28.99	36.88	27.06	23.09	24.32	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	8/27/2021	9/27/2021	5	22	
2	Import Dirt (Hauling from Site #3)	Grading	8/27/2021	9/27/2021	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #3)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #3)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #3)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #3)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #3)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #3)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	3.00	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #3)	5	13.00	0.00	23,144.00	14.70	6.90	3.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3219	45.4210	54.5025	0.0944		1.8955	1.8955		1.8955	1.8955	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	2.3219	45.4210	54.5025	0.0944	2.0680	1.8955	3.9635	0.2233	1.8955	2.1188	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #3) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8031	0.0000	0.8031	0.1216	0.0000	0.1216			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.8031	0.8962	1.6992	0.1216	0.8245	0.9461		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.7352	133.4370	14.1994	0.2633	2.7806	0.1283	2.9088	0.7640	0.1227	0.8867		27,907.4183	27,907.4183	3.2283		27,988.1255
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	2.8012	133.4778	14.7375	0.2647	2.9259	0.1292	3.0551	0.8026	0.1236	0.9261		28,049.6488	28,049.6488	3.2323		28,130.4572

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #3) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3132	0.0000	0.3132	0.0474	0.0000	0.0474			0.0000			0.0000
Off-Road	0.7128	13.7811	21.9785	0.0289		0.6653	0.6653		0.6653	0.6653	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	0.7128	13.7811	21.9785	0.0289	0.3132	0.6653	0.9785	0.0474	0.6653	0.7127	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	2.7352	133.4370	14.1994	0.2633	2.7806	0.1283	2.9088	0.7640	0.1227	0.8867		27,907.4183	27,907.4183	3.2283		27,988.1255
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	2.8012	133.4778	14.7375	0.2647	2.9259	0.1292	3.0551	0.8026	0.1236	0.9261		28,049.6488	28,049.6488	3.2323		28,130.4572

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated)**San Bernardino-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #5 is expected to be conducted in 22 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #3 is approximately 3.0 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	155.00	22.00
tblConstructionPhase	NumDays	155.00	22.00
tblEnergyUse	LightingElect	0.35	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	156,222.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripLength	20.00	3.00
tblTripsAndVMT	HaulingTripNumber	19,528.00	23,144.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.7819	213.0453	87.1739	0.3686	9.2885	3.8000	13.0885	1.5649	3.5010	5.0659	0.0000	37,920.07 24	37,920.07 24	7.4988	0.0000	38,107.54 29
Maximum	10.7819	213.0453	87.1739	0.3686	9.2885	3.8000	13.0885	1.5649	3.5010	5.0659	0.0000	37,920.07 24	37,920.07 24	7.4988	0.0000	38,107.54 29

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.2370	188.7304	97.2918	0.3686	5.5641	2.7010	8.2651	1.1415	2.6948	3.8363	0.0000	37,920.07 24	37,920.07 24	7.4988	0.0000	38,107.54 29
Maximum	6.2370	188.7304	97.2918	0.3686	5.5641	2.7010	8.2651	1.1415	2.6948	3.8363	0.0000	37,920.07 24	37,920.07 24	7.4988	0.0000	38,107.54 29

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	42.15	11.41	-11.61	0.00	40.10	28.92	36.85	27.06	23.03	24.27	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	8/27/2021	9/27/2021	5	22	
2	Import Dirt (Hauling from Site #3)	Grading	8/27/2021	9/27/2021	5	22	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #3)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #3)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #3)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #3)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #3)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #3)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	3.00	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #3)	5	13.00	0.00	23,144.00	14.70	6.90	3.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3219	45.4210	54.5025	0.0944		1.8955	1.8955		1.8955	1.8955	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	2.3219	45.4210	54.5025	0.0944	2.0680	1.8955	3.9635	0.2233	1.8955	2.1188	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #3) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.8031	0.0000	0.8031	0.1216	0.0000	0.1216			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.8031	0.8962	1.6992	0.1216	0.8245	0.9461		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0190	129.4093	19.5883	0.2418	2.7806	0.1376	2.9182	0.7640	0.1317	0.8957		25,632.3693	25,632.3693	3.6292		25,723.0985
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.0852	129.4523	20.0298	0.2431	2.9259	0.1385	3.0644	0.8026	0.1325	0.9351		25,759.9640	25,759.9640	3.6327		25,850.7820

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #3) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3132	0.0000	0.3132	0.0474	0.0000	0.0474			0.0000			0.0000
Off-Road	0.7128	13.7811	21.9785	0.0289		0.6653	0.6653		0.6653	0.6653	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	0.7128	13.7811	21.9785	0.0289	0.3132	0.6653	0.9785	0.0474	0.6653	0.7127	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.0190	129.4093	19.5883	0.2418	2.7806	0.1376	2.9182	0.7640	0.1317	0.8957		25,632.3693	25,632.3693	3.6292		25,723.0985
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.0852	129.4523	20.0298	0.2431	2.9259	0.1385	3.0644	0.8026	0.1325	0.9351		25,759.9640	25,759.9640	3.6327		25,850.7820

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #3 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #4 is expected to be conducted in 21 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #4 is approximately 3.6 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	155.00	21.00
tblConstructionPhase	NumDays	155.00	21.00
tblEnergyUse	LightingElect	0.35	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	168,254.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripNumber	21,032.00	24,928.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.9888	238.4384	84.7903	0.4463	10.3709	3.8290	14.2000	1.8492	3.5288	5.3780	0.0000	46,163.97 75	46,163.97 75	7.5705	0.0000	46,353.23 98
Maximum	10.9888	238.4384	84.7903	0.4463	10.3709	3.8290	14.2000	1.8492	3.5288	5.3780	0.0000	46,163.97 75	46,163.97 75	7.5705	0.0000	46,353.23 98

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.4439	214.1235	94.9081	0.4463	6.5837	2.7301	9.3138	1.4162	2.7226	4.1388	0.0000	46,163.97 75	46,163.97 75	7.5705	0.0000	46,353.23 98
Maximum	6.4439	214.1235	94.9081	0.4463	6.5837	2.7301	9.3138	1.4162	2.7226	4.1388	0.0000	46,163.97 75	46,163.97 75	7.5705	0.0000	46,353.23 98

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	41.36	10.20	-11.93	0.00	36.52	28.70	34.41	23.41	22.85	23.04	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	9/28/2021	10/26/2021	5	21	
2	Import Dirt (Hauling from Site #4)	Grading	9/28/2021	10/26/2021	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #4)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #4)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #4)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #4)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #4)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #4)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	3.60	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #4)	5	13.00	0.00	24,928.00	14.70	6.90	3.60	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3219	45.4210	54.5025	0.0944		1.8955	1.8955		1.8955	1.8955	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	2.3219	45.4210	54.5025	0.0944	2.0680	1.8955	3.9635	0.2233	1.8955	2.1188	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #4) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9061	0.0000	0.9061	0.1372	0.0000	0.1372			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.9061	0.8962	1.8022	0.1372	0.8245	0.9617		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.2263	154.8084	16.9367	0.3191	3.7600	0.1667	3.9266	1.0327	0.1595	1.1921		33,835.7445	33,835.7445	3.6995		33,928.2312
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.2923	154.8492	17.4749	0.3206	3.9053	0.1676	4.0729	1.0712	0.1603	1.2315		33,977.9750	33,977.9750	3.7035		34,070.5629

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #4) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3534	0.0000	0.3534	0.0535	0.0000	0.0535			0.0000			0.0000
Off-Road	0.7128	13.7811	21.9785	0.0289		0.6653	0.6653		0.6653	0.6653	0.0000	2,795.957 3	2,795.957 3	0.9043		2,818.564 0
Total	0.7128	13.7811	21.9785	0.0289	0.3534	0.6653	1.0187	0.0535	0.6653	0.7188	0.0000	2,795.957 3	2,795.957 3	0.9043		2,818.564 0

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.2263	154.8084	16.9367	0.3191	3.7600	0.1667	3.9266	1.0327	0.1595	1.1921		33,835.74 45	33,835.74 45	3.6995		33,928.23 12
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.2923	154.8492	17.4749	0.3206	3.9053	0.1676	4.0729	1.0712	0.1603	1.2315		33,977.97 50	33,977.97 50	3.7035		34,070.56 29

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated)**San Bernardino-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #4 is expected to be conducted in 21 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #4 is approximately 3.6 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	155.00	21.00
tblConstructionPhase	NumDays	155.00	21.00
tblEnergyUse	LightingElect	0.35	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	168,254.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripLength	20.00	3.60
tblTripsAndVMT	HaulingTripNumber	21,032.00	24,928.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.3094	234.0959	90.5987	0.4217	10.3709	3.8396	14.2105	1.8492	3.5389	5.3881	0.0000	43,556.34 54	43,556.34 54	8.0214	0.0000	43,756.88 11
Maximum	11.3094	234.0959	90.5987	0.4217	10.3709	3.8396	14.2105	1.8492	3.5389	5.3881	0.0000	43,556.34 54	43,556.34 54	8.0214	0.0000	43,756.88 11

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.7645	209.7810	100.7166	0.4217	6.5837	2.7406	9.3243	1.4162	2.7327	4.1489	0.0000	43,556.34 54	43,556.34 54	8.0214	0.0000	43,756.88 11
Maximum	6.7645	209.7810	100.7166	0.4217	6.5837	2.7406	9.3243	1.4162	2.7327	4.1489	0.0000	43,556.34 54	43,556.34 54	8.0214	0.0000	43,756.88 11

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	40.19	10.39	-11.17	0.00	36.52	28.62	34.38	23.41	22.78	23.00	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	9/28/2021	10/26/2021	5	21	
2	Import Dirt (Hauling from Site #4)	Grading	9/28/2021	10/26/2021	5	21	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #4)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #4)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #4)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #4)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #4)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #4)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	3.60	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #4)	5	13.00	0.00	24,928.00	14.70	6.90	3.60	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3219	45.4210	54.5025	0.0944		1.8955	1.8955		1.8955	1.8955	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	2.3219	45.4210	54.5025	0.0944	2.0680	1.8955	3.9635	0.2233	1.8955	2.1188	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #4) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.9061	0.0000	0.9061	0.1372	0.0000	0.1372			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	0.9061	0.8962	1.8022	0.1372	0.8245	0.9617		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.5465	150.4600	23.0131	0.2949	3.7600	0.1772	3.9372	1.0327	0.1695	1.2022		31,268.6423	31,268.6423	4.1518		31,372.4368
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.6127	150.5029	23.4546	0.2962	3.9053	0.1781	4.0834	1.0712	0.1704	1.2416		31,396.2370	31,396.2370	4.1553		31,500.1203

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #4) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3534	0.0000	0.3534	0.0535	0.0000	0.0535			0.0000			0.0000
Off-Road	0.7128	13.7811	21.9785	0.0289		0.6653	0.6653		0.6653	0.6653	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	0.7128	13.7811	21.9785	0.0289	0.3534	0.6653	1.0187	0.0535	0.6653	0.7188	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.5465	150.4600	23.0131	0.2949	3.7600	0.1772	3.9372	1.0327	0.1695	1.2022		31,268.6423	31,268.6423	4.1518		31,372.4368
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.6127	150.5029	23.4546	0.2962	3.9053	0.1781	4.0834	1.0712	0.1704	1.2416		31,396.2370	31,396.2370	4.1553		31,500.1203

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #4 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #5 is expected to be conducted in 11 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #5 is approximately 4.2 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	155.00	11.00
tblConstructionPhase	NumDays	155.00	11.00
tblEnergyUse	LightingElect	0.35	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	98,867.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblTripsAndVMT	HaulingTripNumber	12,358.00	14,648.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.5388	262.0533	87.8792	0.5100	11.6375	3.8739	15.5115	2.1830	3.5718	5.7548	0.0000	52,916.86 93	52,916.86 93	8.0848	0.0000	53,118.98 87
Maximum	11.5388	262.0533	87.8792	0.5100	11.6375	3.8739	15.5115	2.1830	3.5718	5.7548	0.0000	52,916.86 93	52,916.86 93	8.0848	0.0000	53,118.98 87

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.9939	237.7384	97.9970	0.5100	7.7830	2.7750	10.5579	1.7399	2.7656	4.5055	0.0000	52,916.86 93	52,916.86 93	8.0848	0.0000	53,118.98 87
Maximum	6.9939	237.7384	97.9970	0.5100	7.7830	2.7750	10.5579	1.7399	2.7656	4.5055	0.0000	52,916.86 93	52,916.86 93	8.0848	0.0000	53,118.98 87

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	39.39	9.28	-11.51	0.00	33.12	28.37	31.93	20.30	22.57	21.71	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	10/27/2021	11/10/2021	5	11	
2	Import Dirt (Hauling from Site #5)	Grading	10/27/2021	11/10/2021	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #5)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #5)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #5)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #5)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #5)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #5)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	4.20	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #5)	5	13.00	0.00	14,648.00	14.70	6.90	4.20	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3219	45.4210	54.5025	0.0944		1.8955	1.8955		1.8955	1.8955	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	2.3219	45.4210	54.5025	0.0944	2.0680	1.8955	3.9635	0.2233	1.8955	2.1188	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #5) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0164	0.0000	1.0164	0.1539	0.0000	0.1539			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	1.0164	0.8962	1.9126	0.1539	0.8245	0.9784		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7763	178.4233	20.0257	0.3828	4.9162	0.2116	5.1278	1.3498	0.2024	1.5522		40,588.6364	40,588.6364	4.2138		40,693.9801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.8424	178.4641	20.5638	0.3842	5.0615	0.2125	5.2740	1.3884	0.2033	1.5916		40,730.8668	40,730.8668	4.2178		40,836.3118

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #5) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3964	0.0000	0.3964	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	0.7128	13.7811	21.9785	0.0289		0.6653	0.6653		0.6653	0.6653	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	0.7128	13.7811	21.9785	0.0289	0.3964	0.6653	1.0617	0.0600	0.6653	0.7253	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.7763	178.4233	20.0257	0.3828	4.9162	0.2116	5.1278	1.3498	0.2024	1.5522		40,588.6364	40,588.6364	4.2138		40,693.9801
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.8424	178.4641	20.5638	0.3842	5.0615	0.2125	5.2740	1.3884	0.2033	1.5916		40,730.8668	40,730.8668	4.2178		40,836.3118

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated)**San Bernardino-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #5 is expected to be conducted in 11 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #5 is approximately 4.2 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	155.00	11.00
tblConstructionPhase	NumDays	155.00	11.00
tblEnergyUse	LightingElect	0.35	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	98,867.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblTripsAndVMT	HaulingTripLength	20.00	4.20
tblTripsAndVMT	HaulingTripNumber	12,358.00	14,648.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.8984	257.4014	94.4229	0.4823	11.6375	3.8858	15.5233	2.1830	3.5831	5.7661	0.0000	49,996.5505	49,996.5505	8.5908	0.0000	50,211.3198
Maximum	11.8984	257.4014	94.4229	0.4823	11.6375	3.8858	15.5233	2.1830	3.5831	5.7661	0.0000	49,996.5505	49,996.5505	8.5908	0.0000	50,211.3198

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	7.3535	233.0865	104.5408	0.4823	7.7830	2.7868	10.5698	1.7399	2.7769	4.5168	0.0000	49,996.5505	49,996.5505	8.5908	0.0000	50,211.3198
Maximum	7.3535	233.0865	104.5408	0.4823	7.7830	2.7868	10.5698	1.7399	2.7769	4.5168	0.0000	49,996.5505	49,996.5505	8.5908	0.0000	50,211.3198

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	38.20	9.45	-10.72	0.00	33.12	28.28	31.91	20.30	22.50	21.67	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	10/27/2021	11/10/2021	5	11	
2	Import Dirt (Hauling from Site #5)	Grading	10/27/2021	11/10/2021	5	11	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #5)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #5)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #5)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #5)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #5)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #5)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	4.20	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #5)	5	13.00	0.00	14,648.00	14.70	6.90	4.20	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3219	45.4210	54.5025	0.0944		1.8955	1.8955		1.8955	1.8955	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	2.3219	45.4210	54.5025	0.0944	2.0680	1.8955	3.9635	0.2233	1.8955	2.1188	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #5) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0164	0.0000	1.0164	0.1539	0.0000	0.1539			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	1.0164	0.8962	1.9126	0.1539	0.8245	0.9784		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1355	173.7655	26.8373	0.3556	4.9162	0.2234	5.1396	1.3498	0.2137	1.5636		37,708.8474	37,708.8474	4.7211		37,826.8754
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	4.2017	173.8084	27.2788	0.3568	5.0615	0.2243	5.2858	1.3884	0.2146	1.6029		37,836.4421	37,836.4421	4.7247		37,954.5589

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #5) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.3964	0.0000	0.3964	0.0600	0.0000	0.0600			0.0000			0.0000
Off-Road	0.7128	13.7811	21.9785	0.0289		0.6653	0.6653		0.6653	0.6653	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	0.7128	13.7811	21.9785	0.0289	0.3964	0.6653	1.0617	0.0600	0.6653	0.7253	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	4.1355	173.7655	26.8373	0.3556	4.9162	0.2234	5.1396	1.3498	0.2137	1.5636		37,708.8474	37,708.8474	4.7211		37,826.8754
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	4.2017	173.8084	27.2788	0.3568	5.0615	0.2243	5.2858	1.3884	0.2146	1.6029		37,836.4421	37,836.4421	4.7247		37,954.5589

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #5 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #2 is expected to be conducted in 6 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #2 is approximately 1.5 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	155.00	6.00
tblConstructionPhase	NumDays	155.00	6.00
tblEnergyUse	LightingElect	0.35	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	54,490.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.50
tblTripsAndVMT	HaulingTripLength	20.00	1.50
tblTripsAndVMT	HaulingTripNumber	6,811.00	8,074.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	10.8643	242.2947	83.4248	0.4014	8.5246	3.7643	12.2890	1.3286	3.4669	4.7956	0.0000	41,377.92 17	41,377.92 17	7.8397	0.0000	41,573.91 29
Maximum	10.8643	242.2947	83.4248	0.4014	8.5246	3.7643	12.2890	1.3286	3.4669	4.7956	0.0000	41,377.92 17	41,377.92 17	7.8397	0.0000	41,573.91 29

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.3194	217.9798	93.5426	0.4014	4.6636	2.6653	7.3290	0.8845	2.6607	3.5452	0.0000	41,377.92 17	41,377.92 17	7.8397	0.0000	41,573.91 29
Maximum	6.3194	217.9798	93.5426	0.4014	4.6636	2.6653	7.3290	0.8845	2.6607	3.5452	0.0000	41,377.92 17	41,377.92 17	7.8397	0.0000	41,573.91 29

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	41.83	10.04	-12.13	0.00	45.29	29.19	40.36	33.43	23.25	26.07	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	11/11/2021	11/18/2021	5	6	
2	Import Dirt (Hauling from Site #2)	Grading	11/11/2021	11/18/2021	5	6	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #2)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #2)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #2)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #2)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #2)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #2)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	1.50	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #2)	5	13.00	0.00	8,074.00	14.70	6.90	1.50	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3219	45.4210	54.5025	0.0944		1.8955	1.8955		1.8955	1.8955	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	2.3219	45.4210	54.5025	0.0944	2.0680	1.8955	3.9635	0.2233	1.8955	2.1188	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #2) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0270	0.0000	1.0270	0.1555	0.0000	0.1555			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	1.0270	0.8962	1.9232	0.1555	0.8245	0.9800		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1019	158.6647	15.5712	0.2742	1.7927	0.1020	1.8947	0.4939	0.0975	0.5914		29,049.6888	29,049.6888	3.9686		29,148.9043
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.1679	158.7055	16.1094	0.2756	1.9380	0.1029	2.0409	0.5324	0.0984	0.6308		29,191.9193	29,191.9193	3.9727		29,291.2360

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Import Dirt (Hauling from Site #2) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4006	0.0000	0.4006	0.0607	0.0000	0.0607			0.0000			0.0000
Off-Road	0.7128	13.7811	21.9785	0.0289		0.6653	0.6653		0.6653	0.6653	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	0.7128	13.7811	21.9785	0.0289	0.4006	0.6653	1.0659	0.0607	0.6653	0.7260	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.1019	158.6647	15.5712	0.2742	1.7927	0.1020	1.8947	0.4939	0.0975	0.5914		29,049.6888	29,049.6888	3.9686		29,148.9043
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0661	0.0408	0.5382	1.4300e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		142.2305	142.2305	4.0500e-003		142.3317
Total	3.1679	158.7055	16.1094	0.2756	1.9380	0.1029	2.0409	0.5324	0.0984	0.6308		29,191.9193	29,191.9193	3.9727		29,291.2360

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated)**San Bernardino-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Site Area is 96.94 acres.

Construction Phase - As per information provided by the Project Applicant, Rough Grading and Import activities for Site #2 is expected to be conducted in 6 days.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Trips and VMT - As per information provided by the Project Applicant, the haul capacity is 13.5 cubic yards per load. The distance from the Project site to Borrow Site #2 is approximately 1.5 miles.

Grading -

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	155.00	6.00
tblConstructionPhase	NumDays	155.00	6.00
tblEnergyUse	LightingElect	0.35	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00
tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	MaterialExported	0.00	54,490.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblTripsAndVMT	HaulingTripLength	20.00	1.50
tblTripsAndVMT	HaulingTripLength	20.00	1.50
tblTripsAndVMT	HaulingTripNumber	6,811.00	8,074.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	11.2279	236.5922	90.0625	0.3735	8.5246	3.7763	12.3009	1.3286	3.4784	4.8070	0.0000	38,427.26 11	38,427.26 11	8.3511	0.0000	38,636.03 96
Maximum	11.2279	236.5922	90.0625	0.3735	8.5246	3.7763	12.3009	1.3286	3.4784	4.8070	0.0000	38,427.26 11	38,427.26 11	8.3511	0.0000	38,636.03 96

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	6.6831	212.2773	100.1803	0.3735	4.6636	2.6773	7.3409	0.8845	2.6721	3.5567	0.0000	38,427.26 11	38,427.26 11	8.3511	0.0000	38,636.03 96
Maximum	6.6831	212.2773	100.1803	0.3735	4.6636	2.6773	7.3409	0.8845	2.6721	3.5567	0.0000	38,427.26 11	38,427.26 11	8.3511	0.0000	38,636.03 96

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	40.48	10.28	-11.23	0.00	45.29	29.10	40.32	33.43	23.18	26.01	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4831	3.4500e-003	0.3756	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003	0.0000	0.8552

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Rough Grade Site	Grading	11/11/2021	11/18/2021	5	6	
2	Import Dirt (Hauling from Site #2)	Grading	11/11/2021	11/18/2021	5	6	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Rough Grade Site	Excavators	0	8.00	158	0.38
Rough Grade Site	Graders	0	8.00	187	0.41
Rough Grade Site	Other Construction Equipment	2	8.00	172	0.42
Rough Grade Site	Rubber Tired Dozers	0	8.00	247	0.40
Rough Grade Site	Scrapers	5	8.00	367	0.48
Rough Grade Site	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Import Dirt (Hauling from Site #2)	Excavators	2	8.00	158	0.38
Import Dirt (Hauling from Site #2)	Graders	0	8.00	187	0.41
Import Dirt (Hauling from Site #2)	Other Construction Equipment	3	8.00	172	0.42
Import Dirt (Hauling from Site #2)	Rubber Tired Dozers	0	8.00	247	0.40
Import Dirt (Hauling from Site #2)	Scrapers	0	8.00	367	0.48
Import Dirt (Hauling from Site #2)	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Rough Grade Site	9	23.00	0.00	0.00	14.70	6.90	1.50	LD_Mix	HDT_Mix	HHDT
Import Dirt (Hauling from Site #2)	5	13.00	0.00	8,074.00	14.70	6.90	1.50	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	5.8616	66.0674	47.6542	0.0944		2.7636	2.7636		2.5426	2.5426		9,138.4067	9,138.4067	2.9556		9,212.2953
Total	5.8616	66.0674	47.6542	0.0944	5.3025	2.7636	8.0661	0.5726	2.5426	3.1151		9,138.4067	9,138.4067	2.9556		9,212.2953

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Rough Grade Site - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	2.3219	45.4210	54.5025	0.0944		1.8955	1.8955		1.8955	1.8955	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953
Total	2.3219	45.4210	54.5025	0.0944	2.0680	1.8955	3.9635	0.2233	1.8955	2.1188	0.0000	9,138.4066	9,138.4066	2.9556		9,212.2953

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #2) - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0270	0.0000	1.0270	0.1555	0.0000	0.1555			0.0000			0.0000
Off-Road	1.7180	17.4496	18.7090	0.0289		0.8962	0.8962		0.8245	0.8245		2,795.9573	2,795.9573	0.9043		2,818.5640
Total	1.7180	17.4496	18.7090	0.0289	1.0270	0.8962	1.9232	0.1555	0.8245	0.9800		2,795.9573	2,795.9573	0.9043		2,818.5640

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4651	152.9563	22.4769	0.2467	1.7927	0.1139	1.9066	0.4939	0.1090	0.6028		26,139.5580	26,139.5580	4.4815		26,251.5952
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.5313	152.9993	22.9183	0.2480	1.9380	0.1148	2.0528	0.5324	0.1098	0.6422		26,267.1527	26,267.1527	4.4850		26,379.2787

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Import Dirt (Hauling from Site #2) - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4006	0.0000	0.4006	0.0607	0.0000	0.0607			0.0000			0.0000
Off-Road	0.7128	13.7811	21.9785	0.0289		0.6653	0.6653		0.6653	0.6653	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640
Total	0.7128	13.7811	21.9785	0.0289	0.4006	0.6653	1.0659	0.0607	0.6653	0.7260	0.0000	2,795.9573	2,795.9573	0.9043		2,818.5640

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	3.4651	152.9563	22.4769	0.2467	1.7927	0.1139	1.9066	0.4939	0.1090	0.6028		26,139.5580	26,139.5580	4.4815		26,251.5952
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0662	0.0429	0.4414	1.2800e-003	0.1453	9.3000e-004	0.1462	0.0385	8.6000e-004	0.0394		127.5947	127.5947	3.5500e-003		127.6835
Total	3.5313	152.9993	22.9183	0.2480	1.9380	0.1148	2.0528	0.5324	0.1098	0.6422		26,267.1527	26,267.1527	4.4850		26,379.2787

4.0 Operational Detail - Mobile

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Unrefrigerated Warehouse-No Rail	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Dirt Import Process Site #2 (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage Construction Process (Construction - Mitigated)**San Bernardino-South Coast County, Summer****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Project Area is 96.64 acres.

Construction Phase - Construction Schedule adjusted to meet the 2022 OY.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment -

Grading - Based on the Equipment List the total acres graded per day is 5.0 acres for grading activities.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	110.00	190.00
tblConstructionPhase	NumDays	1,550.00	220.00
tblConstructionPhase	NumDays	155.00	60.00
tblConstructionPhase	PhaseEndDate	4/5/2029	12/15/2022
tblConstructionPhase	PhaseEndDate	6/1/2028	12/15/2022
tblConstructionPhase	PhaseEndDate	6/23/2022	2/10/2022
tblConstructionPhase	PhaseEndDate	11/2/2028	12/15/2022
tblConstructionPhase	PhaseStartDate	11/3/2028	3/25/2022
tblConstructionPhase	PhaseStartDate	6/24/2022	2/11/2022
tblConstructionPhase	PhaseStartDate	6/2/2028	7/15/2022
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	0.00	300.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.4771	23.3927	29.9419	0.0469	5.5596	1.2056	6.7652	0.6407	1.1091	1.7499	0.0000	4,551.447 4	4,551.447 4	1.3978	0.0000	4,586.392 6
2022	68.3001	99.1157	127.5852	0.4677	28.3969	1.7863	30.1831	7.6317	1.6726	9.3043	0.0000	47,466.43 69	47,466.43 69	3.2098	0.0000	47,546.68 20
Maximum	68.3001	99.1157	127.5852	0.4677	28.3969	1.7863	30.1831	7.6317	1.6726	9.3043	0.0000	47,466.43 69	47,466.43 69	3.2098	0.0000	47,546.68 20

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.2099	21.7364	34.6547	0.0469	2.3251	1.1231	3.4482	0.2915	1.1230	1.4144	0.0000	4,551.447 4	4,551.447 4	1.3978	0.0000	4,586.392 6
2022	66.4702	97.6695	132.0223	0.4677	28.3969	1.9431	30.3400	7.6317	1.9271	9.5589	0.0000	47,466.43 69	47,466.43 69	3.2098	0.0000	47,546.68 20
Maximum	66.4702	97.6695	132.0223	0.4677	28.3969	1.9431	30.3400	7.6317	1.9271	9.5589	0.0000	47,466.43 69	47,466.43 69	3.2098	0.0000	47,546.68 20

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.38	2.53	-5.81	0.00	9.53	-2.49	8.55	4.22	-9.65	0.73	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4828	3.4200e-003	0.3747	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003	0.0000	0.8548

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4828	3.4200e-003	0.3747	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003	0.0000	0.8548

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/19/2021	2/10/2022	5	60	
2	Building Construction	Building Construction	2/11/2022	12/15/2022	5	220	
3	Architectural Coating	Architectural Coating	3/25/2022	12/15/2022	5	190	
4	Paving	Paving	7/15/2022	12/15/2022	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 300

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,124,050; Non-Residential Outdoor: 1,041,350; Striped Parking Area: 128,400 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	5	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Other Construction Equipment	2	8.00	172	0.42
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,774.00	692.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	355.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	2.3602	23.3205	28.9898	0.0444		1.2039	1.2039		1.1076	1.1076		4,299.808 9	4,299.808 9	1.3907		4,334.575 0
Total	2.3602	23.3205	28.9898	0.0444	5.3025	1.2039	6.5064	0.5726	1.1076	1.6802		4,299.808 9	4,299.808 9	1.3907		4,334.575 0

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	1.0931	21.6641	33.7025	0.0444		1.1215	1.1215		1.1215	1.1215	0.0000	4,299.8089	4,299.8089	1.3907		4,334.5750
Total	1.0931	21.6641	33.7025	0.0444	2.0680	1.1215	3.1894	0.2233	1.1215	1.3448	0.0000	4,299.8089	4,299.8089	1.3907		4,334.5750

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176
Total	0.1169	0.0722	0.9522	2.5300e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		251.6385	251.6385	7.1600e-003		251.8176

3.2 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	2.0935	19.8664	28.7921	0.0444		1.0079	1.0079		0.9273	0.9273		4,299.2168	4,299.2168	1.3905		4,333.9781
Total	2.0935	19.8664	28.7921	0.0444	5.3025	1.0079	6.3104	0.5726	0.9273	1.4999		4,299.2168	4,299.2168	1.3905		4,333.9781

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Grading - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1091	0.0650	0.8747	2.4400e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		242.5586	242.5586	6.4200e-003		242.7192
Total	0.1091	0.0650	0.8747	2.4400e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		242.5586	242.5586	6.4200e-003		242.7192

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	1.0931	21.6641	33.7025	0.0444		1.1215	1.1215		1.1215	1.1215	0.0000	4,299.2168	4,299.2168	1.3905		4,333.9781
Total	1.0931	21.6641	33.7025	0.0444	2.0680	1.1215	3.1894	0.2233	1.1215	1.3448	0.0000	4,299.2168	4,299.2168	1.3905		4,333.9781

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.2 Grading - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1091	0.0650	0.8747	2.4400e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		242.5586	242.5586	6.4200e-003		242.7192
Total	0.1091	0.0650	0.8747	2.4400e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		242.5586	242.5586	6.4200e-003		242.7192

3.3 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6682	63.2917	11.6100	0.1851	4.4320	0.0961	4.5281	1.2761	0.0919	1.3680		19,535.68 47	19,535.68 47	1.2015		19,565.72 13
Worker	8.4175	5.0094	67.4661	0.1878	19.8291	0.1231	19.9523	5.2588	0.1134	5.3722		18,708.64 70	18,708.64 70	0.4955		18,721.03 42
Total	10.0857	68.3010	79.0761	0.3729	24.2611	0.2192	24.4804	6.5349	0.2053	6.7402		38,244.33 16	38,244.33 16	1.6970		38,286.75 55

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7201	15.2191	19.1360	0.0288		0.9621	0.9621		0.9621	0.9621	0.0000	2,737.152 0	2,737.152 0	0.6711		2,753.928 8
Total	0.7201	15.2191	19.1360	0.0288		0.9621	0.9621		0.9621	0.9621	0.0000	2,737.152 0	2,737.152 0	0.6711		2,753.928 8

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.3 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.6682	63.2917	11.6100	0.1851	4.4320	0.0961	4.5281	1.2761	0.0919	1.3680		19,535.68 47	19,535.68 47	1.2015		19,565.72 13
Worker	8.4175	5.0094	67.4661	0.1878	19.8291	0.1231	19.9523	5.2588	0.1134	5.3722		18,708.64 70	18,708.64 70	0.4955		18,721.03 42
Total	10.0857	68.3010	79.0761	0.3729	24.2611	0.2192	24.4804	6.5349	0.2053	6.7402		38,244.33 16	38,244.33 16	1.6970		38,286.75 55

3.4 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.3731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	52.6458	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.4 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.6845	1.0024	13.5008	0.0376	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,743.8386	3,743.8386	0.0992		3,746.3174
Total	1.6845	1.0024	13.5008	0.0376	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,743.8386	3,743.8386	0.0992		3,746.3174

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.3731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.8093	2.4432	3.9600e-003		0.1268	0.1268		0.1268	0.1268	0.0000	375.2641	375.2641	0.0244		375.8749
Total	52.4523	1.8093	2.4432	3.9600e-003		0.1268	0.1268		0.1268	0.1268	0.0000	375.2641	375.2641	0.0244		375.8749

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.4 Architectural Coating - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.6845	1.0024	13.5008	0.0376	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,743.8386	3,743.8386	0.0992		3,746.3174
Total	1.6845	1.0024	13.5008	0.0376	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,743.8386	3,743.8386	0.0992		3,746.3174

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.8956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9984	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.6603	2,207.6603	0.7140		2,225.5104

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.5 Paving - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.8956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4565	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

3.5 Paving - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951
Total	0.0712	0.0424	0.5705	1.5900e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		158.1904	158.1904	4.1900e-003		158.2951

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Refrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Unmitigated	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Total	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Total	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage Construction Process (Construction - Mitigated)**San Bernardino-South Coast County, Winter****1.0 Project Characteristics****1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2022
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Project Area is 96.64 acres.

Construction Phase - Construction Schedule adjusted to meet the 2022 OY.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Hours are based on an 8-hour workday.

Off-road Equipment - Construction Equipment adjusted as per information provided by the Project Applicant.

Off-road Equipment -

Grading - Based on the Equipment List the total acres graded per day is 5.0 acres for grading activities.

Architectural Coating - Rule 1113

Vehicle Trips - Construction Run Only.

Energy Use - Construction Run Only.

Water And Wastewater - Construction Run Only.

Solid Waste - Construction Run Only.

Construction Off-road Equipment Mitigation - Tier 3 for all equipment

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	EF_Nonresidential_Exterior	100.00	50.00
tblArchitecturalCoating	EF_Nonresidential_Interior	100.00	50.00
tblArchitecturalCoating	EF_Parking	100.00	50.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	110.00	190.00
tblConstructionPhase	NumDays	1,550.00	220.00
tblConstructionPhase	NumDays	155.00	60.00
tblConstructionPhase	PhaseEndDate	4/5/2029	12/15/2022
tblConstructionPhase	PhaseEndDate	6/1/2028	12/15/2022
tblConstructionPhase	PhaseEndDate	6/23/2022	2/10/2022
tblConstructionPhase	PhaseEndDate	11/2/2028	12/15/2022
tblConstructionPhase	PhaseStartDate	11/3/2028	3/25/2022
tblConstructionPhase	PhaseStartDate	6/24/2022	2/11/2022
tblConstructionPhase	PhaseStartDate	6/2/2028	7/15/2022
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	2.37	0.00
tblEnergyUse	LightingElect	1.17	0.00

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblEnergyUse	NT24E	36.52	0.00
tblEnergyUse	NT24E	0.82	0.00
tblEnergyUse	NT24NG	48.51	0.00
tblEnergyUse	NT24NG	0.03	0.00
tblEnergyUse	T24E	1.06	0.00
tblEnergyUse	T24E	0.37	0.00
tblEnergyUse	T24NG	3.25	0.00
tblEnergyUse	T24NG	2.00	0.00
tblGrading	AcresOfGrading	0.00	300.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	5.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	UsageHours	6.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblOffRoadEquipment	UsageHours	7.00	8.00
tblSolidWaste	SolidWasteGenerationRate	94.00	0.00
tblSolidWaste	SolidWasteGenerationRate	1,863.74	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CC_TL	8.40	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TL	6.90	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TL	16.60	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	CW_TTP	59.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	PR_TP	92.00	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	ST_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	SU_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblVehicleTrips	WD_TR	1.68	0.00
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	0.00

2.0 Emissions Summary

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	2.4773	23.3965	29.7708	0.0467	5.5596	1.2056	6.7652	0.6407	1.1091	1.7499	0.0000	4,525.553 4	4,525.553 4	1.3969	0.0000	4,560.476 6
2022	68.4522	98.6823	114.8421	0.4370	28.3969	1.7891	30.1860	7.6317	1.6753	9.3070	0.0000	44,376.37 90	44,376.37 90	3.2690	0.0000	44,458.10 28
Maximum	68.4522	98.6823	114.8421	0.4370	28.3969	1.7891	30.1860	7.6317	1.6753	9.3070	0.0000	44,376.37 90	44,376.37 90	3.2690	0.0000	44,458.10 28

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	1.2102	21.7401	34.4835	0.0467	2.3251	1.1231	3.4482	0.2915	1.1230	1.4144	0.0000	4,525.553 4	4,525.553 4	1.3969	0.0000	4,560.476 6
2022	66.6223	97.2360	119.2793	0.4370	28.3969	1.9460	30.3428	7.6317	1.9299	9.5616	0.0000	44,376.37 90	44,376.37 90	3.2690	0.0000	44,458.10 28
Maximum	66.6223	97.2360	119.2793	0.4370	28.3969	1.9460	30.3428	7.6317	1.9299	9.5616	0.0000	44,376.37 90	44,376.37 90	3.2690	0.0000	44,458.10 28

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.37	2.54	-6.33	0.00	9.53	-2.48	8.55	4.22	-9.64	0.73	0.00	0.00	0.00	0.00	0.00	0.00

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4828	3.4200e-003	0.3747	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003	0.0000	0.8548

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	47.4828	3.4200e-003	0.3747	3.0000e-005	0.0000	1.3400e-003	1.3400e-003	0.0000	1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003	0.0000	0.8548

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	11/19/2021	2/10/2022	5	60	
2	Building Construction	Building Construction	2/11/2022	12/15/2022	5	220	
3	Architectural Coating	Architectural Coating	3/25/2022	12/15/2022	5	190	
4	Paving	Paving	7/15/2022	12/15/2022	5	110	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 300

Acres of Paving: 49.13

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 3,124,050; Non-Residential Outdoor: 1,041,350; Striped Parking Area: 128,400 (Architectural Coating – sqft)

OffRoad Equipment

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	5	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Other Construction Equipment	2	8.00	172	0.42
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	8.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	9	23.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	1,774.00	692.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	355.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	2.3602	23.3205	28.9898	0.0444		1.2039	1.2039		1.1076	1.1076		4,299.808 9	4,299.808 9	1.3907		4,334.575 0
Total	2.3602	23.3205	28.9898	0.0444	5.3025	1.2039	6.5064	0.5726	1.1076	1.6802		4,299.808 9	4,299.808 9	1.3907		4,334.575 0

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Grading - 2021**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	1.0931	21.6641	33.7025	0.0444		1.1215	1.1215		1.1215	1.1215	0.0000	4,299.8089	4,299.8089	1.3907		4,334.5750
Total	1.0931	21.6641	33.7025	0.0444	2.0680	1.1215	3.1894	0.2233	1.1215	1.3448	0.0000	4,299.8089	4,299.8089	1.3907		4,334.5750

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Grading - 2021**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016
Total	0.1171	0.0760	0.7810	2.2700e-003	0.2571	1.6400e-003	0.2587	0.0682	1.5100e-003	0.0697		225.7445	225.7445	6.2800e-003		225.9016

3.2 Grading - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					5.3025	0.0000	5.3025	0.5726	0.0000	0.5726			0.0000			0.0000
Off-Road	2.0935	19.8664	28.7921	0.0444		1.0079	1.0079		0.9273	0.9273		4,299.2168	4,299.2168	1.3905		4,333.9781
Total	2.0935	19.8664	28.7921	0.0444	5.3025	1.0079	6.3104	0.5726	0.9273	1.4999		4,299.2168	4,299.2168	1.3905		4,333.9781

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Grading - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1097	0.0683	0.7163	2.1800e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		217.6136	217.6136	5.6400e-003		217.7546
Total	0.1097	0.0683	0.7163	2.1800e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		217.6136	217.6136	5.6400e-003		217.7546

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.0680	0.0000	2.0680	0.2233	0.0000	0.2233			0.0000			0.0000
Off-Road	1.0931	21.6641	33.7025	0.0444		1.1215	1.1215		1.1215	1.1215	0.0000	4,299.2168	4,299.2168	1.3905		4,333.9781
Total	1.0931	21.6641	33.7025	0.0444	2.0680	1.1215	3.1894	0.2233	1.1215	1.3448	0.0000	4,299.2168	4,299.2168	1.3905		4,333.9781

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.2 Grading - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.1097	0.0683	0.7163	2.1800e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		217.6136	217.6136	5.6400e-003		217.7546
Total	0.1097	0.0683	0.7163	2.1800e-003	0.2571	1.6000e-003	0.2587	0.0682	1.4700e-003	0.0697		217.6136	217.6136	5.6400e-003		217.7546

3.3 Building Construction - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288
Total	1.8146	16.7670	17.4392	0.0288		0.8645	0.8645		0.8122	0.8122		2,737.1520	2,737.1520	0.6711		2,753.9288

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Building Construction - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7718	62.5475	13.6361	0.1779	4.4320	0.0989	4.5309	1.2761	0.0946	1.3707		18,770.93 27	18,770.93 27	1.3337		18,804.27 59
Worker	8.4576	5.2665	55.2457	0.1684	19.8291	0.1231	19.9523	5.2588	0.1134	5.3722		16,784.62 98	16,784.62 98	0.4350		16,795.50 46
Total	10.2294	67.8140	68.8818	0.3463	24.2611	0.2221	24.4832	6.5349	0.2080	6.7429		35,555.56 25	35,555.56 25	1.7687		35,599.78 05

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.7201	15.2191	19.1360	0.0288		0.9621	0.9621		0.9621	0.9621	0.0000	2,737.152 0	2,737.152 0	0.6711		2,753.928 8
Total	0.7201	15.2191	19.1360	0.0288		0.9621	0.9621		0.9621	0.9621	0.0000	2,737.152 0	2,737.152 0	0.6711		2,753.928 8

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.3 Building Construction - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	1.7718	62.5475	13.6361	0.1779	4.4320	0.0989	4.5309	1.2761	0.0946	1.3707		18,770.93 27	18,770.93 27	1.3337		18,804.27 59
Worker	8.4576	5.2665	55.2457	0.1684	19.8291	0.1231	19.9523	5.2588	0.1134	5.3722		16,784.62 98	16,784.62 98	0.4350		16,795.50 46
Total	10.2294	67.8140	68.8818	0.3463	24.2611	0.2221	24.4832	6.5349	0.2080	6.7429		35,555.56 25	35,555.56 25	1.7687		35,599.78 05

3.4 Architectural Coating - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.3731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2727	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749
Total	52.6458	1.8780	2.4181	3.9600e-003		0.1090	0.1090		0.1090	0.1090		375.2641	375.2641	0.0244		375.8749

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.4 Architectural Coating - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.6925	1.0539	11.0554	0.0337	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,358.818 3	3,358.818 3	0.0871		3,360.994 4
Total	1.6925	1.0539	11.0554	0.0337	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,358.818 3	3,358.818 3	0.0871		3,360.994 4

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	52.3731					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0792	1.8093	2.4432	3.9600e-003		0.1268	0.1268		0.1268	0.1268	0.0000	375.2641	375.2641	0.0244		375.8749
Total	52.4523	1.8093	2.4432	3.9600e-003		0.1268	0.1268		0.1268	0.1268	0.0000	375.2641	375.2641	0.0244		375.8749

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.4 Architectural Coating - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	1.6925	1.0539	11.0554	0.0337	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,358.818 3	3,358.818 3	0.0871		3,360.994 4
Total	1.6925	1.0539	11.0554	0.0337	3.9681	0.0246	3.9927	1.0524	0.0227	1.0750		3,358.818 3	3,358.818 3	0.0871		3,360.994 4

3.5 Paving - 2022**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1028	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4
Paving	0.8956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.9984	11.1249	14.5805	0.0228		0.5679	0.5679		0.5225	0.5225		2,207.660 3	2,207.660 3	0.7140		2,225.510 4

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.5 Paving - 2022**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104
Paving	0.8956					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4565	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,207.6603	2,207.6603	0.7140		2,225.5104

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

3.5 Paving - 2022**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139
Total	0.0715	0.0445	0.4671	1.4200e-003	0.1677	1.0400e-003	0.1687	0.0445	9.6000e-004	0.0454		141.9219	141.9219	3.6800e-003		142.0139

4.0 Operational Detail - Mobile**4.1 Mitigation Measures Mobile**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	0.00	0.00	0.00		
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0
Unrefrigerated Warehouse-No	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Parking Lot	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Refrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944
Unrefrigerated Warehouse-No Rail	0.553113	0.036408	0.180286	0.116335	0.016165	0.005101	0.018218	0.063797	0.001357	0.001565	0.005903	0.000808	0.000944

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Unrefrigerated Warehouse-No Rail	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Unmitigated	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Total	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0349	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548
Total	47.4828	3.4200e-003	0.3747	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1200e-003		0.8548

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Majestic Chino Heritage Construction Process (Construction - Mitigated) - San Bernardino-South Coast County, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.3:

CALEEMOD OPERATIONS (PASSENGER CARS) EMISSIONS MODEL OUTPUTS

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage (Operations - Passenger Cars)
San Bernardino-South Coast County, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Project Area is 96.94 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Grading -

Vehicle Trips - Trip Rates based on information provided in the TIA.

Water And Wastewater - As per the WSA, the total Indoor Water Demand for the Project is 107,496 gpd and the Outdoor Water Demand is 31,740 gpd.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Fleet Mix - Fleet Mix for Passenger Cars were split proportionally between LDA, LDT1, LDT2, and MDV.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CW_TL	16.60	14.50
tblVehicleTrips	CW_TL	16.60	14.50
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.44
tblVehicleTrips	ST_TR	1.68	1.75
tblVehicleTrips	SU_TR	1.68	1.44
tblVehicleTrips	SU_TR	1.68	1.75
tblVehicleTrips	WD_TR	1.68	1.44
tblVehicleTrips	WD_TR	1.68	1.75
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	39,236,040.00
tblWater	OutdoorWaterUseRate	0.00	11,585,100.00

2.0 Emissions Summary

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
Mobile	6.8870	10.2465	129.7667	0.4070	39.8082	0.2258	40.0340	10.5527	0.2080	10.7607		40,569.7397	40,569.7397	0.9589		40,593.7115
Offroad	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	55.7353	25.0900	138.4101	0.4472	39.8082	0.8325	40.6407	10.5527	0.7814	11.3341		45,992.8171	45,992.8171	1.8124	0.0544	46,054.3286

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
Mobile	6.8870	10.2465	129.7667	0.4070	39.8082	0.2258	40.0340	10.5527	0.2080	10.7607		40,569.7397	40,569.7397	0.9589		40,593.7115
Offroad	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	55.7353	25.0900	138.4101	0.4472	39.8082	0.8325	40.6407	10.5527	0.7814	11.3341		45,992.8171	45,992.8171	1.8124	0.0544	46,054.3286

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/11/2021	6/11/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

Acres of Paving: 49.13**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

3.2 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

3.2 Grading - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	6.8870	10.2465	129.7667	0.4070	39.8082	0.2258	40.0340	10.5527	0.2080	10.7607		40,569.73 97	40,569.73 97	0.9589		40,593.71 15
Unmitigated	6.8870	10.2465	129.7667	0.4070	39.8082	0.2258	40.0340	10.5527	0.2080	10.7607		40,569.73 97	40,569.73 97	0.9589		40,593.71 15

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	144.00	144.00	144.00	760,032	760,032
Unrefrigerated Warehouse-No Rail	3,469.73	3,469.73	3,469.73	18,313,209	18,313,209
Total	3,613.73	3,613.73	3,613.73	19,073,241	19,073,241

4.3 Trip Type Information

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	14.50	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	14.50	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.620587	0.041891	0.202723	0.134800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.620587	0.041891	0.202723	0.134800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
NaturalGas Unmitigated	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	14180.8	0.1529	1.3903	1.1678	8.3400e-003		0.1057	0.1057		0.1057	0.1057		1,668.3320	1,668.3320	0.0320	0.0306	1,678.2461
Unrefrigerated Warehouse-No Rail	11027.1	0.1189	1.0811	0.9081	6.4900e-003		0.0822	0.0822		0.0822	0.0822		1,297.3025	1,297.3025	0.0249	0.0238	1,305.0117
Total		0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	14.1808	0.1529	1.3903	1.1678	8.3400e-003		0.1057	0.1057		0.1057	0.1057		1,668.3320	1,668.3320	0.0320	0.0306	1,678.2461
Unrefrigerated Warehouse-No Rail	11.0271	0.1189	1.0811	0.9081	6.4900e-003		0.0822	0.0822		0.0822	0.0822		1,297.3025	1,297.3025	0.0249	0.0238	1,305.0117
Total		0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	8	4.00	365	200	0.37	CNG

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Summer

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage (Operations - Passenger Cars)
San Bernardino-South Coast County, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Project Area is 96.94 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Grading -

Vehicle Trips - Trip Rates based on information provided in the TIA.

Water And Wastewater - As per the WSA, the total Indoor Water Demand for the Project is 107,496 gpd and the Outdoor Water Demand is 31,740 gpd.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Fleet Mix - Fleet Mix for Passenger Cars were split proportionally between LDA, LDT1, LDT2, and MDV.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	1.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	HHD	0.06	0.00
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDA	0.55	0.62
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT1	0.04	0.04
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LDT2	0.18	0.20
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD1	0.02	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

tblFleetMix	MDV	0.12	0.13
tblFleetMix	MDV	0.12	0.13
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	MHD	0.02	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CNW_TTP	41.00	0.00

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CW_TL	16.60	14.50
tblVehicleTrips	CW_TL	16.60	14.50
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	1.44
tblVehicleTrips	ST_TR	1.68	1.75
tblVehicleTrips	SU_TR	1.68	1.44
tblVehicleTrips	SU_TR	1.68	1.75
tblVehicleTrips	WD_TR	1.68	1.44
tblVehicleTrips	WD_TR	1.68	1.75
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	39,236,040.00
tblWater	OutdoorWaterUseRate	0.00	11,585,100.00

2.0 Emissions Summary

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

[illegible]

Mitigated Construction

[illegible][illegible]

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
Mobile	5.6882	10.7375	105.8551	0.3649	39.8082	0.2258	40.0340	10.5527	0.2080	10.7607		36,393.8190	36,393.8190	0.8413		36,414.8520
Offroad	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	54.5365	25.5809	114.4985	0.4052	39.8082	0.8325	40.6407	10.5527	0.7814	11.3341		41,816.8964	41,816.8964	1.6948	0.0544	41,875.4691

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
Mobile	5.6882	10.7375	105.8551	0.3649	39.8082	0.2258	40.0340	10.5527	0.2080	10.7607		36,393.8190	36,393.8190	0.8413		36,414.8520
Offroad	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	54.5365	25.5809	114.4985	0.4052	39.8082	0.8325	40.6407	10.5527	0.7814	11.3341		41,816.8964	41,816.8964	1.6948	0.0544	41,875.4691

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/11/2021	6/11/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

Acres of Paving: 49.13**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

3.2 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

3.2 Grading - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.6882	10.7375	105.8551	0.3649	39.8082	0.2258	40.0340	10.5527	0.2080	10.7607		36,393.81 90	36,393.81 90	0.8413		36,414.85 20
Unmitigated	5.6882	10.7375	105.8551	0.3649	39.8082	0.2258	40.0340	10.5527	0.2080	10.7607		36,393.81 90	36,393.81 90	0.8413		36,414.85 20

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	144.00	144.00	144.00	760,032	760,032
Unrefrigerated Warehouse-No Rail	3,469.73	3,469.73	3,469.73	18,313,209	18,313,209
Total	3,613.73	3,613.73	3,613.73	19,073,241	19,073,241

4.3 Trip Type Information

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	14.50	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	14.50	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.620587	0.041891	0.202723	0.134800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.620587	0.041891	0.202723	0.134800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
NaturalGas Unmitigated	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	14180.8	0.1529	1.3903	1.1678	8.3400e-003		0.1057	0.1057		0.1057	0.1057		1,668.3320	1,668.3320	0.0320	0.0306	1,678.2461
Unrefrigerated Warehouse-No Rail	11027.1	0.1189	1.0811	0.9081	6.4900e-003		0.0822	0.0822		0.0822	0.0822		1,297.3025	1,297.3025	0.0249	0.0238	1,305.0117
Total		0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	14.1808	0.1529	1.3903	1.1678	8.3400e-003		0.1057	0.1057		0.1057	0.1057		1,668.3320	1,668.3320	0.0320	0.0306	1,678.2461
Unrefrigerated Warehouse-No Rail	11.0271	0.1189	1.0811	0.9081	6.4900e-003		0.0822	0.0822		0.0822	0.0822		1,297.3025	1,297.3025	0.0249	0.0238	1,305.0117
Total		0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	8	4.00	365	200	0.37	CNG

Majestic Chino Heritage (Operations - Passenger Cars) - San Bernardino-South Coast County, Winter

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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APPENDIX 3.4:

CALEEMOD OPERATIONS (TRUCKS) EMISSIONS MODEL OUTPUTS

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

Majestic Chino Heritage (Operations - Trucks)

San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

Project Characteristics -

Land Use - Total Project Area is 96.94 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Grading -

Vehicle Trips - Trip Rates based on information provided in the TIA. Trip Length based on SBTAM Model.

Water And Wastewater - As per the WSA, the total Indoor Water Demand for the Project is 107,496 gpd and the Outdoor Water Demand is 31,740 gpd.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Fleet Mix - Operations Run Only.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	1.00
tblFleetMix	HHD	0.06	0.54
tblFleetMix	HHD	0.06	0.79
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.35
tblFleetMix	LHD1	0.02	0.11
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblGrading	AcresOfGrading	0.00	2.50
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblVehicleTrips	CNW_TTP	41.00	0.00

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	31.82
tblVehicleTrips	CW_TL	16.60	26.18
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.68
tblVehicleTrips	ST_TR	1.68	0.38
tblVehicleTrips	SU_TR	1.68	0.68
tblVehicleTrips	SU_TR	1.68	0.38
tblVehicleTrips	WD_TR	1.68	0.68
tblVehicleTrips	WD_TR	1.68	0.38
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	39,236,040.00
tblWater	OutdoorWaterUseRate	0.00	11,585,100.00

2.0 Emissions Summary

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

[illegible]

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
Mobile	5.5579	188.9693	38.2520	0.7080	19.3016	0.6553	19.9569	5.3664	0.6268	5.9932		74,933.0185	74,933.0185	3.2403		75,014.0266
Offroad	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	54.4062	203.8128	46.8954	0.7482	19.3016	1.2621	20.5637	5.3664	1.2001	6.5665		80,356.0959	80,356.0959	4.0938	0.0544	80,474.6437

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
Mobile	5.5579	188.9693	38.2520	0.7080	19.3016	0.6553	19.9569	5.3664	0.6268	5.9932		74,933.0185	74,933.0185	3.2403		75,014.0266
Offroad	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	54.4062	203.8128	46.8954	0.7482	19.3016	1.2621	20.5637	5.3664	1.2001	6.5665		80,356.0959	80,356.0959	4.0938	0.0544	80,474.6437

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/11/2021	6/11/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.5

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

Acres of Paving: 49.13**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

3.2 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6513	0.0000	2.6513	0.2863	0.0000	0.2863			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

3.2 Grading - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6513	0.0000	2.6513	0.2863	0.0000	0.2863			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.5579	188.9693	38.2520	0.7080	19.3016	0.6553	19.9569	5.3664	0.6268	5.9932		74,933.0185	74,933.0185	3.2403		75,014.0266
Unmitigated	5.5579	188.9693	38.2520	0.7080	19.3016	0.6553	19.9569	5.3664	0.6268	5.9932		74,933.0185	74,933.0185	3.2403		75,014.0266

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	68.00	68.00	68.00	787,609	787,609
Unrefrigerated Warehouse-No Rail	753.43	753.43	753.43	7,179,788	7,179,788
Total	821.43	821.43	821.43	7,967,397	7,967,397

4.3 Trip Type Information

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	31.82	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	26.18	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.347000	0.000000	0.110000	0.543000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.106000	0.000000	0.106000	0.788000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
NaturalGas Unmitigated	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	14180.8	0.1529	1.3903	1.1678	8.3400e-003		0.1057	0.1057		0.1057	0.1057		1,668.3320	1,668.3320	0.0320	0.0306	1,678.2461
Unrefrigerated Warehouse-No Rail	11027.1	0.1189	1.0811	0.9081	6.4900e-003		0.0822	0.0822		0.0822	0.0822		1,297.3025	1,297.3025	0.0249	0.0238	1,305.0117
Total		0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	14.1808	0.1529	1.3903	1.1678	8.3400e-003		0.1057	0.1057		0.1057	0.1057		1,668.3320	1,668.3320	0.0320	0.0306	1,678.2461
Unrefrigerated Warehouse-No Rail	11.0271	0.1189	1.0811	0.9081	6.4900e-003		0.0822	0.0822		0.0822	0.0822		1,297.3025	1,297.3025	0.0249	0.0238	1,305.0117
Total		0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	8	4.00	365	200	0.37	CNG

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Summer

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

Majestic Chino Heritage (Operations - Trucks)

San Bernardino-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Refrigerated Warehouse-No Rail	100.00	1000sqft	2.30	100,000.00	0
Unrefrigerated Warehouse-No Rail	1,982.70	1000sqft	45.52	1,982,700.00	0
Other Non-Asphalt Surfaces	11.53	Acre	11.53	502,098.00	0
Parking Lot	1,570.00	Space	37.60	1,637,908.40	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	32
Climate Zone	10			Operational Year	2021
Utility Company	Southern California Edison				
CO2 Intensity (lb/MW hr)	702.44	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

Project Characteristics -

Land Use - Total Project Area is 96.94 acres.

Construction Phase - Operations Run Only.

Off-road Equipment - Operations Run Only.

Trips and VMT - Operations Run Only.

Grading -

Vehicle Trips - Trip Rates based on information provided in the TIA. Trip Length based on SBTAM Model.

Water And Wastewater - As per the WSA, the total Indoor Water Demand for the Project is 107,496 gpd and the Outdoor Water Demand is 31,740 gpd.

Operational Off-Road Equipment - Based on SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results (2014)

Fleet Mix - Operations Run Only.

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	155.00	1.00
tblFleetMix	HHD	0.06	0.54
tblFleetMix	HHD	0.06	0.79
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDA	0.55	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT1	0.04	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LDT2	0.18	0.00
tblFleetMix	LHD1	0.02	0.35
tblFleetMix	LHD1	0.02	0.11
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	LHD2	5.2670e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00
tblFleetMix	MCY	6.0000e-003	0.00

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

tblFleetMix	MDV	0.12	0.00
tblFleetMix	MDV	0.12	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MH	1.0100e-003	0.00
tblFleetMix	MHD	0.02	0.11
tblFleetMix	MHD	0.02	0.11
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	OBUS	1.3480e-003	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	SBUS	8.1200e-004	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblFleetMix	UBUS	1.6070e-003	0.00
tblGrading	AcresOfGrading	0.00	2.50
tblLandUse	LandUseSquareFeet	502,246.80	502,098.00
tblLandUse	LandUseSquareFeet	628,000.00	1,637,908.40
tblLandUse	LotAcreage	14.13	37.60
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOperationalOffRoadEquipment	OperDaysPerYear	260.00	365.00
tblOperationalOffRoadEquipment	OperFuelType	Diesel	CNG
tblOperationalOffRoadEquipment	OperHorsePower	97.00	200.00
tblOperationalOffRoadEquipment	OperHoursPerDay	8.00	4.00
tblOperationalOffRoadEquipment	OperOffRoadEquipmentNumber	0.00	8.00
tblVehicleTrips	CNW_TTP	41.00	0.00

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

tblVehicleTrips	CNW_TTP	41.00	0.00
tblVehicleTrips	CW_TL	16.60	31.82
tblVehicleTrips	CW_TL	16.60	26.18
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	CW_TTP	59.00	100.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	DV_TP	5.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PB_TP	3.00	0.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	PR_TP	92.00	100.00
tblVehicleTrips	ST_TR	1.68	0.68
tblVehicleTrips	ST_TR	1.68	0.38
tblVehicleTrips	SU_TR	1.68	0.68
tblVehicleTrips	SU_TR	1.68	0.38
tblVehicleTrips	WD_TR	1.68	0.68
tblVehicleTrips	WD_TR	1.68	0.38
tblWater	IndoorWaterUseRate	23,125,000.00	0.00
tblWater	IndoorWaterUseRate	458,499,375.00	39,236,040.00
tblWater	OutdoorWaterUseRate	0.00	11,585,100.00

2.0 Emissions Summary

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

[illegible]

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
Mobile	5.7287	191.5353	41.3717	0.6951	19.3016	0.6610	19.9625	5.3664	0.6322	5.9986		73,565.0219	73,565.0219	3.4785		73,651.9838
Offroad	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	54.5769	206.3787	50.0151	0.7353	19.3016	1.2677	20.5693	5.3664	1.2055	6.5719		78,988.0993	78,988.0993	4.3320	0.0544	79,112.6009

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

2.2 Overall Operational**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Energy	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
Mobile	5.7287	191.5353	41.3717	0.6951	19.3016	0.6610	19.9625	5.3664	0.6322	5.9986		73,565.0219	73,565.0219	3.4785		73,651.9838
Offroad	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	54.5769	206.3787	50.0151	0.7353	19.3016	1.2677	20.5693	5.3664	1.2055	6.5719		78,988.0993	78,988.0993	4.3320	0.0544	79,112.6009

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail**Construction Phase**

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Grading	Grading	6/11/2021	6/11/2021	5	1	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.5

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

Acres of Paving: 49.13**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)****OffRoad Equipment**

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Grading	Excavators	0	8.00	158	0.38
Grading	Graders	0	8.00	187	0.41
Grading	Rubber Tired Dozers	0	8.00	247	0.40
Grading	Scrapers	0	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	0	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Grading	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

3.2 Grading - 2021**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6513	0.0000	2.6513	0.2863	0.0000	0.2863			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863		0.0000	0.0000	0.0000		0.0000

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

3.2 Grading - 2021**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.6513	0.0000	2.6513	0.2863	0.0000	0.2863			0.0000			0.0000
Off-Road	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	2.6513	0.0000	2.6513	0.2863	0.0000	0.2863	0.0000	0.0000	0.0000	0.0000		0.0000

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	5.7287	191.5353	41.3717	0.6951	19.3016	0.6610	19.9625	5.3664	0.6322	5.9986		73,565.02 19	73,565.02 19	3.4785		73,651.98 38
Unmitigated	5.7287	191.5353	41.3717	0.6951	19.3016	0.6610	19.9625	5.3664	0.6322	5.9986		73,565.02 19	73,565.02 19	3.4785		73,651.98 38

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Refrigerated Warehouse-No Rail	68.00	68.00	68.00	787,609	787,609
Unrefrigerated Warehouse-No Rail	753.43	753.43	753.43	7,179,788	7,179,788
Total	821.43	821.43	821.43	7,967,397	7,967,397

4.3 Trip Type Information

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Other Non-Asphalt Surfaces	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Parking Lot	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Refrigerated Warehouse-No	31.82	8.40	6.90	100.00	0.00	0.00	100	0	0
Unrefrigerated Warehouse-No	26.18	8.40	6.90	100.00	0.00	0.00	100	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Other Non-Asphalt Surfaces	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Parking Lot	0.549952	0.037123	0.179649	0.119457	0.017229	0.005267	0.017877	0.062669	0.001348	0.001607	0.006000	0.000812	0.001010
Refrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.347000	0.000000	0.110000	0.543000	0.000000	0.000000	0.000000	0.000000	0.000000
Unrefrigerated Warehouse-No Rail	0.000000	0.000000	0.000000	0.000000	0.106000	0.000000	0.106000	0.788000	0.000000	0.000000	0.000000	0.000000	0.000000

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578
NaturalGas Unmitigated	0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	14180.8	0.1529	1.3903	1.1678	8.3400e-003		0.1057	0.1057		0.1057	0.1057		1,668.3320	1,668.3320	0.0320	0.0306	1,678.2461
Unrefrigerated Warehouse-No Rail	11027.1	0.1189	1.0811	0.9081	6.4900e-003		0.0822	0.0822		0.0822	0.0822		1,297.3025	1,297.3025	0.0249	0.0238	1,305.0117
Total		0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

5.2 Energy by Land Use - NaturalGas**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Refrigerated Warehouse-No Rail	14.1808	0.1529	1.3903	1.1678	8.3400e-003		0.1057	0.1057		0.1057	0.1057		1,668.3320	1,668.3320	0.0320	0.0306	1,678.2461
Unrefrigerated Warehouse-No Rail	11.0271	0.1189	1.0811	0.9081	6.4900e-003		0.0822	0.0822		0.0822	0.0822		1,297.3025	1,297.3025	0.0249	0.0238	1,305.0117
Total		0.2719	2.4714	2.0759	0.0148		0.1878	0.1878		0.1878	0.1878		2,965.6345	2,965.6345	0.0568	0.0544	2,983.2578

6.0 Area Detail**6.1 Mitigation Measures Area**

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Unmitigated	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	5.4525					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	41.9955					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	0.0351	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552
Total	47.4831	3.4500e-003	0.3756	3.0000e-005		1.3400e-003	1.3400e-003		1.3400e-003	1.3400e-003		0.8019	0.8019	2.1300e-003		0.8552

7.0 Water Detail**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste****9.0 Operational Offroad**

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
Tractors/Loaders/Backhoes	8	4.00	365	200	0.37	CNG

Majestic Chino Heritage (Operations - Trucks) - San Bernardino-South Coast County, Winter

UnMitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Tractors/Loaders/Backhoes	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042
Total	1.0933	12.3686	6.1919	0.0254		0.4176	0.4176		0.3842	0.3842		2,456.6410	2,456.6410	0.7945		2,476.5042

10.0 Stationary Equipment**Fire Pumps and Emergency Generators**

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

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