AB 987 Application

for the

Inglewood Basketball and Entertainment Center

Project

Prepared for

Murphy's Bowl LLC

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TABLE OF CONTENTS

Section **Page**

Project Description 1
LEED Gold Certification 3
Transportation Demand Management Program and Trip Reduction 6
Infill Site in Urbanized Area 11
Consistency With Sustainable Communities Strategy 12
Minimum Investment 16
Prevailing Wage and Living Wage Commitments 17
Greenhouse Gas Analysis 18
Waste Recycling 24
Commitments Regarding Pub. Res. Code §21168.6.8(b)(5 – 7) 26

LIST OF TABLES

Table **Page**

Table 1. IBEC Project Land Uses 2
Table 2: IBEC TDM Program Vehicle Trip Reduction 10
Table 3. IBEC Project Local Direct Measures Emissions Reductions and Offsets Summary.....21
Table 4. IBEC Project Variants Local Direct Emissions Reductions and Offsets Summary 22

LIST OF MAPS
(In Attachment A)

Map

Attachment A-1. Project Area and Project Site Boundary 29
Attachment A-2. Proposed Inglewood Basketball and Entertainment Center Project Site Plan .30

ATTACHMENTS

Attachment A IBEC Project Maps
Attachment B LEED Scorecards
Attachment C IBEC TDM Program
Attachment D IBEC Project Trip Generation Memorandum
Attachment E ARB Executive Order
Attachment F Letter from Project Sponsor and City of Inglewood
Attachment G IBEC Project GHG Analysis

By this application, the project sponsor, Murphy's Bowl LLC, seeks certification of the proposed Inglewood Basketball and Entertainment Center Project (IBEC Project) pursuant to Assembly Bill (AB) 987, which enacted Public Resources Code Section 21168.6.8 et seq. This AB 987 certification process is separate from and in addition to the preparation of the environmental review document for the IBEC Project under the California Environmental Quality Act (CEQA).

PROJECT DESCRIPTION

I. INTRODUCTION

The project sponsor proposes the construction of a new basketball and entertainment center and related development in the City of Inglewood, California to serve as the new home of the LA Clippers National Basketball Association (NBA) franchise. The proposed IBEC Project includes a new arena, practice and training facility, and office space for the LA Clippers, as well as ancillary development including a sports medicine clinic and retail, restaurant, community space and hotel uses. The multipurpose arena would be used for LA Clippers home basketball games and as a performance venue that could be configured for other events of various size, including concerts, other sporting events, family shows, conferences, and civic and community events.

The LA Clippers currently play their home basketball games at the Staples Center located in downtown Los Angeles. The LA Clippers team offices are also located in downtown Los Angeles, and the LA Clippers Training Center team practice and training facility is located in the Playa Vista neighborhood of Los Angeles. Upon completion of the IBEC Project, all LA Clippers home basketball games would be played at the new arena, and the team offices and practice and athletic training facilities would relocate to the LA Clippers new home.

It is expected that the LA Clippers would host up to five preseason games, 41 regular season games, and up to a maximum of 16 playoff games each NBA season. Other events such as concerts, family shows, conventions and corporate or civic events, and non-LA Clippers sporting events would take place in the proposed arena throughout the year.

II. LOCATION

The IBEC Project Site is located in the City of Inglewood, California, entirely within the "project area" as defined in Public Resources Code Section 21168.6.8(a)(5) and shown in **Attachment A-1** ***Project Area and Project Site Boundary***.

The majority of parcels that comprise the Project Site are currently vacant or undeveloped. Developed parcels within the Project Site include a fast food restaurant, a retail store, a motel, warehouse and light manufacturing facilities, and a municipal groundwater well and related facilities. The "project area" defined in Public Resources Code Section 21168.6.8(a)(5) includes four parcels that are not included in the current IBEC Project Site boundary shown in **Attachment A-1**, but which could be included in the proposed IBEC Project if acquired by the

Project Sponsor. Those parcels are currently developed with residential, hotel, commercial, and self-storage uses.

III. PROPOSED IBEC PROJECT

The IBEC Project consists of an arena with up to 18,000 fixed seats for LA Clippers basketball games, with capacity to add up to 500 additional temporary seats for other events. The proposed IBEC Project Site is shown in **Attachment A-2** ***Inglewood Basketball and Entertainment Center Project Site Plan***.

In addition, the proposed IBEC Project includes a new LA Clippers practice and athletic training facility, LA Clippers team offices, a sports medicine clinic, community space, and ancillary retail and dining uses as shown in Table 1. The proposed IBEC Project also includes the option to develop a hotel of up to 150 rooms within the IBEC Project Site.

Table 1. IBEC Project Land Uses

Land Use	Size
Arena	Up to 18,000 fixed seats with capacity to add 500 temporary seats
LA Clippers Practice and Athletic Training Facility	85,000 SF
LA Clippers Offices	71,000 SF
Sports Medicine Clinic	25,000 SF
Dining and Retail Space	48,000 SF
Community Space	15,000 SF
Hotel	150 rooms

The proposed IBEC Project includes two parking structures and a surface parking lot, with a pedestrian bridge across South Prairie Avenue connecting one of the parking structures to the arena and plaza area. As part of the proposed IBEC Project, an existing municipal groundwater well would be relocated within the Project Site.

IV. IBEC PROJECT VARIANTS

The proposed IBEC Project includes two variants, collectively referred to in this application as the IBEC Project Variants, to allow for flexibility in the development of the project.

A. Alternate Prairie Access Variant

The Alternate Prairie Access Variant contemplates the potential acquisition by the project sponsor of two additional parcels adjacent to the proposed IBEC Project Site within the "project area" defined in Public Resources Code Section 21168.6.8(a)(5), as shown in **Attachment A-1.**

The Alternate Prairie Access Variant would allow for a different configuration for vehicular access from South Prairie Avenue and minor alterations to the design of the main pedestrian plaza and the alignment of the arena structure. The Alternate Prairie Access Variant would only be implemented if the two additional parcels included in this variant are made available for sale by the property owners and acquired by the project sponsor. Eminent domain would not be used in connection with the acquisition of either of the additional two parcels included in the Alternate Prairie Access Variant, or for any property with an existing home or church in connection with the IBEC Project or the IBEC Project Variants.

B. West Century Boulevard Pedestrian Bridge Variant

The West Century Boulevard Pedestrian Bridge Variant would allow for the construction of a second pedestrian bridge, across West Century Boulevard, for pedestrian access to the IBEC Project Site from the Los Angeles Sports and Entertainment District located north of West Century Boulevard. The West Century Boulevard Pedestrian Bridge Variant could be incorporated into the development of either the IBEC Project or the Alternate Prairie Access Variant.

Both IBEC Project Variants involve the same program and size of development for the proposed uses as the IBEC Project, and would include the same number of parking and loading spaces, mechanical equipment, general vehicular circulation, transportation demand management program, streetscape improvements, and sustainability features as the IBEC Project. Therefore, this application and the analyses in the appendices generally refer to the IBEC Project, except where the IBEC Project Variants could be expected to produce different results for the analysis of greenhouse gas emissions included below.

V. CONSTRUCTION

Construction of the IBEC Project is anticipated to begin in 2021 and to last approximately three years, with completion in June 2024.

Information to show the project will qualify for Leadership in Energy and Environmental Design (LEED) Gold certification for new construction within one year of the completion of the first NBA season consistent with the requirements of Public Resources Code section 2168.6.8(a)(3)(A).

This section refers only to the proposed IBEC Project since neither the Alternate Prairie Access Variant nor the West Century Boulevard Pedestrian Bridge Variant would make a notable difference to the LEED rating. The IBEC Project is designed to reduce energy and water use, promote resource conservation through redevelopment and the sourcing of local construction materials, and to create healthier indoor environments. The IBEC Project would meet or exceed current uniform codes designed to achieve a LEED Gold rating, as shown in **Attachment B *LEED Scorecards***. The applicant will apply for LEED certification of the buildings and

accompanying development in the Building Design + Construction (BD+C) category, and would adopt a LEED campus approach in order to capture site-wide strategies such as those related to storm water and open space. LEED certification for the main arena structure will be sought under LEED BD+C New Construction and Major Renovation, certification for the other IBEC Project plaza buildings would be sought under LEED BD+C Core + Shell, and certification for the hotel would be sought under LEED BD+C Hospitality. Measures to achieve certification in these areas include energy efficiency, water conservation, low-impact development, and other green-building practices. These measures would be incorporated into the final design of each component to achieve sufficient points for LEED Gold certification. Two concept phase LEED scorecards are included with this application in **Attachment B**; the main arena scorecard and the Core + Shell scorecard associated with the plaza buildings.

The LEED rating system offers four certification levels for new construction that correspond to the number of credits accrued in categories for location and transportation, sustainable sites, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality, innovation, and regional priority (USGBC 2015). The number of points that the proposed IBEC Project earns determines the level of LEED certification that the IBEC Project will receive:

- LEED Certified™: 40-49 points earned
- LEED Silver®: 50-59 points earned
- LEED Gold®: 60-79 points earned
- LEED Platinum®: 80+ points earned

LEED provides a level of flexibility for projects to choose the exact credits and project features. At the time of this application the IBEC Project design is in the conceptual stage, so the exact LEED credits and project features that would be selected to achieve LEED Gold certification (i.e., 60-79 LEED points) have not yet been finalized. However, some of the design features that would help the IBEC Project achieve LEED Gold certification include:

- *Location and Transportation.* The IBEC Project would be eligible for credits in the location and transportation category in the following areas: (1) the Project Site is currently developed with access to high quality transit, (2) the IBEC Project would include bicycle and electric vehicle charging facilities, and (3) the IBEC Project would have a reduced parking footprint.

  The IBEC Project would be eligible to achieve the Access to Quality Transit credit because local transit service to the project area would be provided by the Los Angeles Metropolitan Transportation Authority (Metro) in the form of future below- and at-grade light rail on the Metro Crenshaw/LAX Line, which is currently under construction and expected to be complete in 2019, and above-ground route bus services. The IBEC Project would provide shuttle pick-up and drop-off service at the following three Metro rail stations: the existing Metro Green Line - Hawthorne Station, and the future Metro Crenshaw/LAX Line – Florence/La Brea Station and Metro Crenshaw/LAX Line – AMC

96th Street Stations. In addition, the IBEC Project is located within ¼ mile of 8 existing Metro bus stops along the following four Metro routes, 117, 211, 212, and 312.

The IBEC Project would also provide electric vehicle charging stations at 8% of parking spaces, which would exceed the requirements for the IBEC Project to be eligible for the Green Vehicles credit.

- *Sustainable Sites.* The IBEC Project would be eligible for credits for rainwater management, open space, heat island reduction, and light pollution reduction. Credits for open space are based on the percentage of permeable surfaces, including roof-top gardens.
- *Water Efficiency*. The IBEC Project would be eligible for credits for the use of ultra-low flow fixtures in restrooms such as low flow faucets with aerators, dual flush toilets, and waterless urinals. These features would reduce indoor water use by a minimum of 40 percent and would be required to meet Universal Plumbing Code standards. The IBEC Project would also be eligible for credits for using 100% recycled water to service project landscaping designed for low water usage.
- *Energy and Atmosphere*. The IBEC Project would be eligible for credits for optimized performance and renewable energy production. The IBEC Project will provide photovoltaic panels on the main arena building roof and fund the purchase of carbon offsets. The IBEC Project will also implement the following energy efficiency measures: Title 24 compliance; use of 100% light emitting diode (LED) lighting indoors and outdoors throughout the site; and implementation of high efficiency HVAC-related strategies.
- *Materials and Resources*. The IBEC Project would be eligible for credits for Construction and Demolition Waste Management and sourcing of raw materials. The IBEC Project would recycle at least 75 percent of demolition materials, which exceeds the City of Inglewood's target of 50 percent demolition waste recycling and is in accordance with State diversion targets that aim to divert a minimum of 75 percent of construction and demolition materials from landfill disposal.
- *Indoor Environmental Quality.* The IBEC Project would be eligible for credits for enhanced indoor and outdoor air quality, and would meet American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) 62.1:2010 indoor air quality requirements and ASHRAE 55 thermal comfort requirements.
- *Innovation.* The IBEC Project would be eligible for innovation credits. Innovative strategies include the following: implementation of the FanFirst/Occupant Comfort Survey,[1] green education program, LEED Operations + Management (O+M) Starter Kit

[1] FanFirst Connected Comfort utilizes real time crowdsourced feedback during an event to adjust temperature in the arena bowl to increase fan comfort and reduce over cooling/wasted energy.

(Pest Management and Green Cleaning Program), and the purchasing of 100% LED lamps.

The project sponsor will seek LEED Gold certification for all buildings constructed as part of the IBEC Project within one year of the completion of the first NBA season at the IBEC Project arena, anticipated to occur in the summer of 2025.

Information to show that the transportation demand management program, upon full implementation, will achieve and maintain a 15-percent reduction in the number of vehicle trips, collectively, by attendees, employees, visitors, and customers as compared to operations absent the transportation demand management program.

Under the requirements of AB 987, the IBEC Project must include implementation of a transportation demand management that will achieve and maintain a 15% reduction in the number of vehicle trips, collectively, by attendees, employees, visitors, and customers as compared to trips generated by IBEC Project operations absent the transportation demand management program. The measures included in the transportation demand management program must be implemented as soon as feasible, so that a 7.5% reduction in vehicle trips is achieved and maintained by the end of the first NBA season during which an NBA team has played at the IBEC Project arena, anticipated to occur by June 2025.

AB 987 further requires that the transportation demand management program for the IBEC Project consist of a specific program of strategies, incentives, and tools that includes, but is not limited to, the following:

- Provision of shuttles, charter buses, or similar services from a major transit stop to serve arena events.
- Provision of onsite electric vehicle charging stations in excess of applicable requirements.
- Provision of dedicated parking for car-share or zero-emission vehicles, or both types of vehicle, in excess of applicable requirements.
- Provision of bicycle parking in excess of applicable requirements.
- Inclusion of a transit facility with area dedicated to shuttle bus staging, ride share, bicycle parking, and other modalities intended to reduce the use of single occupant vehicles.

The IBEC Transportation Demand Management Program (IBEC TDM Program) has been designed to achieve the required 15% reduction in vehicle trips on an annual basis as compared to IBEC Project operations absent the IBEC TDM Program, as further described in **Attachment C *IBEC TDM Program***. The measures and strategies included in the IBEC TDM Program are subject to further refinement and revision through the CEQA environmental review process. The final IBEC TDM Program will be coordinated with the City of Inglewood at the time of project

approval, with achievement of the 15% reduction in vehicle trips verified to the City of Inglewood and Office of Planning and Research no later than January 1, 2030. The project sponsor will implement the measures included in the final IBEC TDM Program as soon as feasible, and therefore will exceed the required 7.5% reduction in vehicle trips by the end of the first NBA season.

Existing and Planned Transit Network

The IBEC Project Site is located along two multimodal corridors, W. Century Blvd. and S. Prairie Ave., and includes access to transit. In particular, multimodal access to the Project Site is available in the form of local bus service, automobile access, and a pedestrian network comprised of continuous sidewalks, curb ramps, and painted crosswalks at area intersections. Local bus service is currently provided by the Metro at 8 Metro stops within a ¼-mile of the Project Site along the following four Metro routes: 117, 211, 212, and 312. The Bus Rapid Transit (BRT) Line 740 Hawthorne/Century transit stop is located approximately 0.5 miles west of the Project Site.

The existing and planned fixed guideway network in the City of Inglewood includes several rail stops that would provide access to the IBEC Project. Metro's existing and planned fixed guideway network includes several rail stops that would provide access to the proposed IBEC Project. The Project Site is located approximately 0.8 miles from the existing Metro Green Line Hawthorne Station. Future transportation network improvement includes the LA Metro Crenshaw/LAX project. The LA Metro Crenshaw/LAX project is an 8.5-mile light rail line between the Metro Green Line and Exposition Line serving the cities of Los Angeles, Inglewood and El Segundo and is planned to be open in 2019. Three stations associated with the Metro Crenshaw/LAX Line are planned in the City of Inglewood: the Downtown Inglewood Station located approximately 1.6 miles to the north of the IBEC Project Site, the Westchester/Veterans Station located approximately 2 miles northwest of the Project Site, and the Fairview Heights station located approximately 2 miles north of the Project Site. Once completed, the Crenshaw/LAX Line and the existing Green Line (with operational updates) will both stop at the future Airport Metro connector (AMC) 96th Street Transit Station which is located approximately 2.0 miles west of the Project Site. This station is also planned to connect to the proposed future automated people mover (APM) which is currently under the final design and construction phase and will be operated by the Los Angeles World Airports (LAWA). The APM and the AMC 96th Street Transit Station are anticipated to open in 2023, before the IBEC Project becomes operational.

IBEC TDM Program

This section includes a summary of the IBEC TDM Program measures and the resulting estimated trip reduction. Trip generation estimates for the proposed IBEC Project were

calculated to demonstrate the effectiveness of the IBEC TDM Program, as detailed in **Attachment D *IBEC Project Trip Generation Memorandum***.[2]

The IBEC TDM Program includes strategies, incentives and tools that provide opportunities for event attendees and employees to reduce single-occupancy vehicle (SOV) trips and use other modes of transportation besides automobile to travel to work and to basketball games and other events hosted at the IBEC Project arena.

The IBEC TDM Program targets a reduction in SOV trips by encouraging event attendees and proposed IBEC Project employees to select other modes of transportation, including public transportation, walking, bicycling, car-share, carpooling and vanpooling, and park-n-ride services. As described in more detail in **Attachment D**, the IBEC TDM Program is designed to achieve a 15% reduction in vehicle trips through implementation of a combination of transportation demand management measures and strategies that may include the following:

> ***TDM 1*** *- Encourage Alternative Modes of Transportation (Rail, Public Bus, and Vanpool)*
>
> Provide monetary incentives and bus stop improvements near the Project Site.
>
> ***TDM 2*** *- Event-day Dedicated Shuttle Services*
>
> Provide connectivity to the existing and future Metro Rail Stations and take advantage of the transportation resources in the area. Ensure a sufficient number of shuttles will be provided for successful and convenient connectivity, with short wait times.
>
> ***TDM 3*** *– Encourage Carpools and Zero-Emission Vehicles*
>
> Provide several incentives that would encourage carpooling and zero-emission vehicles as a means for sharing access to and from the Project Site.
>
> ***TDM 4*** *– Encourage Active Transportation*
>
> Include features which would enhance the access for bicyclists and pedestrians.
>
> ***TDM 5*** *– Employee Vanpool Program*
>
> Provide an employee vanpool program that would accommodate 5% of the employees in conjunction with TDM 1.

[2] Given that both of the IBEC Project Variants would have the same program and size of development, anticipated events, and employment as the IBEC Project, the trip generation and travel demand would also be the same. Therefore, although the trip generation memo and this section only specifically address the IBEC Project, the analysis and conclusions would remain the same for either IBEC Project Variant.

***TDM 6** – Park-n-Ride Program*

Provide a regional park-n-ride program that would utilize charter coach buses.

***TDM 7** - Information Services*

Provide a number of services which would inform the public about activities at the IBEC.

***TDM 8** – Reduce On-Site Parking Demand*

Include features that reduce on-site parking demand.

***TDM 9** – Event-Day Local Microtransit Service*

Provide a local minibus/microtransit service for event days that would accommodate up to 66 employees and 180 attendees.

IBEC TDM Program Vehicle Trip Reduction

The IBEC Project Trip Generation Memorandum included as **Attachment D** to this application provides a detailed analysis that demonstrates the reduction in vehicle trips produced by the IBEC TDM Program. The analysis is based on estimates of vehicle trips for LA Clippers home basketball games and other non-NBA basketball game events to be hosted at the IBEC Project, as well as LA Clippers employees who will use the LA Clippers practice and training facility and the LA Clippers offices, and vehicle trips by employees and patrons of the sports medicine clinic, retail, restaurant, community space and hotel uses included in the IBEC Project.

The IBEC Project Trip Generation Memorandum includes an evaluation of two scenarios, the IBEC Project Without IBEC TDM Program, and the IBEC Project With IBEC TDM Program. Vehicle trip generation for the IBEC Project was estimated based on maximum anticipated event attendance levels to provide a conservative estimate of total trips.

Comparison of the IBEC Project With TDM Program scenario to the IBEC Project Without TDM Program scenario demonstrates that implementation of the IBEC TDM Program will achieve an approximately 15.151% reduction in vehicle trips.

As shown in Table 2, the IBEC Project with implementation of the IBEC TDM Program would generate a total of approximately 2,972,568 vehicle trips on an annual basis, representing a reduction of approximately 530,783 trips on an annual basis compared to the approximately 3,503,351 total annual vehicle trips generated by the IBEC Project without the IBEC TDM Program.

Table 2: IBEC TDM Program Vehicle Trip Reduction					
Scenario	**Estimated Annual Vehicle Trips**				
	Weekday		Weekend		**Total**
	Event Days	Non-Event Days	Event Days	Non-Event Days	
IBEC Project Without IBEC TDM Program	1,845,166	595,113	1,004,792	58,280	3,503,351
IBEC Project With IBEC TDM Program	1,537,765	568,615	810,430	55,758	2,972,568
IBEC TDM Program Reduction	-307,401	-26,498	-194,362	-2,522	-530,783
				% Vehicle Trips Reduced	**-15.151%**

Source: AECOM 2018

The analysis included in this application demonstrates that implementation of the IBEC TDM Program would meet the vehicle trip reduction requirements of AB 987. Upon implementation of the IBEC TDM Program, the IBEC Project would generate at least 15 percent fewer annual vehicle trips when measured against the IBEC Project absent a transportation demand management program. The measures in the final IBEC TDM Program would be implemented upon commencement of IBEC Project operations, exceeding the requirement to achieve a 7.5% reduction in vehicle trips by the end of the first NBA season.

Information to show the project is located on an infill site and will satisfy the requirements of Public Resources Code section 21168.6.8(a)(3)(C).

According to Public Resources Code 21061.3, an “infill site" is defined as a site in an urbanized area that meets either of the following criteria:

(a) The site has not been previously developed for urban uses and both of the following apply:

(1) the site is immediately adjacent to parcels that are developed with qualified urban uses, or at least 75 percent of the perimeter of the site adjoins parcels that are developed with qualified urban uses, and the remaining 25 percent of the site adjoins parcels that have previously been developed for qualified urban uses; and

(2) No parcel within the site has been created within the past 10 years unless the parcel was created as a result of the plan of a redevelopment agency.

(b) The site has been previously developed for qualified urban uses.

Public Resources Code section 21072 defines a "qualified urban use" as "any residential, commercial, public institutional, transit or transportation passenger facility, or retail use, or any combination of those uses."

The proposed IBEC Project meets the criteria for an "infill site" as defined in Public Resources Code section 21061.3(b), since all parcels within the Project Site either currently are or have previously been developed for qualified urban uses. The six currently-developed parcels within the IBEC Project Site that would be redeveloped include a fast-food restaurant, a retail store, a motel, warehouse and light manufacturing facilities, and a municipal groundwater well and related facilities. The Alternate Prairie Access Variant would include two additional parcels that currently are developed with a single-family home and a three-unit residential use, if made available for sale by the property owners and acquired by the project sponsor, resulting in a total of up to eight buildings that may be removed. Approximately 85% of the Project Site is vacant. However, all of the currently vacant parcels have previously been developed with qualified urban uses, including commercial, residential and mixed commercial/residential uses.

An urbanized area, according to Public Resources Code 21071, can be defined as an incorporated city that has a population of at least 100,000 persons. The IBEC Project Site is located in the City of Inglewood, which is an incorporated City with a population of approximately 110,000 people.

Information to show the project is consistent with the general use designation, density, building intensity, and applicable policies specified for the project area in either a sustainable communities strategy or an alternative planning strategy for which the State Air Resources Board, pursuant to subparagraph (H) of paragraph (2) of subdivision (b) of Section 65080 of the Government Code, has accepted a metropolitan planning organization's determination that the sustainable communities strategy or the alternative planning strategy would, if implemented, achieve the greenhouse gas emission reduction targets.

California Senate Bill (SB) 375 was passed by the State Assembly on August 25, 2008, and signed into law by the Governor on September 30, 2008. This legislation links regional planning for housing and transportation with the greenhouse gas (GHG) reduction goals outlined in California Assembly Bill (AB) 32. Under SB 375, each Metropolitan Planning Organization (MPO) is required to adopt a Sustainable Community Strategy (SCS) to encourage compact development that reduces passenger vehicle miles traveled (VMT) and trips so that the region will meet a target, created by the California Air Resources Board (CARB), for reducing GHG emissions.

The proposed IBEC Project is within the jurisdiction of the Southern California Association of Governments (SCAG). On April 4, 2012, SCAG's Regional Council adopted the 2012-2035 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS): Towards a Sustainable Future (2012 RTP/SCS). On April 7, 2016, SCAG's Regional Council adopted the 2016- 2040 RTP/SCS: A Plan for Mobility, Accessibility, Sustainability and a High Quality of Life (2016 RTC/SCS). The 2016 RTP/SCS reaffirms the land use policies that were incorporated into the 2012 RTP/SCS. On June 28, 2016, CARB accepted SCAG's quantification of GHG emission reductions from the 2016 RTC/SCS and the determination that the 2016 RTP/SCS would, if implemented, achieve the 2020 and 2035 GHG emission reduction targets established by CARB.[3]

The purpose of the 2016 RTP/SCS is to achieve its assigned regional per capita GHG reduction targets for the passenger vehicle and light-duty truck sector established by CARB pursuant to SB 375 through strategies for integrating transportation and land use planning, and an overall land use pattern that encourages growth in infill locations near bus corridors and other transit infrastructure[4]. The land use pattern supports and complements the proposed transportation network that emphasizes system preservation, active transportation, and transportation demand management (TDM) measures.

The 2012 RTP/SCS and the 2016 RTP/SCS include strategies and principles that are relevant to the IBEC Project, such as:

[3] California Air Resources Board (CARB), Executive Order G-16-066, Southern California Association of Governments' (SCAG) 2016 Sustainable Communities Strategy (SCS) ARB Acceptance of GHG Quantification Determination, available at: http://www.arb.ca.gov/cc/sb375/scag_executive_order_g_16_066.pdf. (CARB 2016). (Attachment E).

[4] See, for example, 2016 RTP/SCS Chapter 1, page 13, and Chapter 5, pages 68 and following.

- Support projects, programs, policies and regulations that encourage the development of complete communities, which includes a diversity of housing choices and educational opportunities, jobs for a variety of skills and education, recreation and culture, and a full-range of shopping, entertainment and services all within a relatively short distance;[5]
- Encourage compact growth in areas accessible to transit;[6]
- Identify regional strategic areas for infill and investment;[7]
- Plan for jobs closer to transit and housing, in sustainable transit-ready infill areas that can be reached by planned transit service and can readily access existing infrastructure;[8]
- Develop strategies focused on high-quality places, compact infill development, and more housing and transportation choices;[9]
- Encourage development in High Quality Transit Areas (HQTAs) and along "Livable Corridors";[10]
- Develop nodes on a corridor - intensify nodes along corridors with people-scaled, mixed-use developments;[11]
- Promote the use of TDM programs;[12] and
- Invest in biking and walking infrastructure to improve active transportation options and transit access.[13]

The IBEC Project is consistent with and furthers these strategies and principles as follows:

Consistent with the RTP/SCS, the IBEC Project would be infill development, as explained above, and proposes a dense mix of recreation and entertainment, office, retail, restaurant, community, and hotel uses consistent with compact growth, on parcels of infill urban land accessible to and served by public transit and near existing and planned housing. The IBEC Project has been designed with the complete communities concept in mind by integrating land use planning, transportation planning, and community design together, and by providing construction and permanent jobs for a variety of skills and education, recreational and cultural events, and a full-range of shopping, entertainment and services all within a relatively short distance.

[5] 2012 RTP/SCS p. 153.
[6] *See. e.g.,* 2012 RTP/SCS p. 121; 2016 RTP/SCS p. 2.
[7] 2016 RTP/SCS pp. 7-8.
[8] 2012 RTP/SCS p. 154.
[9] 2012 RTP/SCS p. 113.
[10] *See, e.g.,* 2012 RTP/SCS p. 8; 2016 RTP/SCS pp. 8, 74, 78, 80, 97, 165.
[11] 2012 RTP/SCS p. 121; 2016 RTP/SCS p. 75.
[12] 2012 RTP/SCS pp. 15, 121, 141, 151; 2016 RTP/SCS p. 65.
[13] 2012 RTP/SCS pp. 53, 155.

The IBEC Project meets the HQTA criteria of being within one half mile of a fixed guideway transit stop or a bus transit corridor where buses pick up passengers at a frequency of every 15 minutes or less during peak commuting hours.[14] The Project Site is adjacent to two (the 117 and 212/312 lines, which stop at the intersection of West Century Boulevard and South Prairie Avenue) and within one half mile of a third (the combined 740/40) Metro bus routes that are corridors that pick up passengers at intervals of 15 minute or less during peak commute hours. A fixed light rail system with a station adjacent to the IBEC Project Site is currently in the planning phase and, if approved, would be a major transit node to service the Project Site and surrounding uses.

In addition to the Project Site's proximity to the Metro bus routes and potential light rail system described above, it is less than one mile from the Los Angeles County Metropolitan Transportation Authority (Metro) Green Line's Hawthorne/Lennox Station. The Metro Green Line provides light rail service between Redondo Beach and Norwalk, and also serves the communities of El Segundo, Hawthorne, South Los Angeles, Lynwood, and Downey.

Currently under construction, the Metro Crenshaw/LAX Line will provide a new light rail connection between the existing Metro Exposition Line and the Metro Green Line. The Crenshaw/LAX Line will serve the cities of Los Angeles, Inglewood, Hawthorne, and El Segundo, and portions of unincorporated Los Angeles County. The Crenshaw/LAX Line will also provide light rail service to LAX. Three stations associated with the Metro Crenshaw/LAX Line are planned in the City of Inglewood: the Downtown Inglewood Station located approximately 1.6 miles to the north of the Project Site, the Westchester/Veterans Station located approximately 2 miles northwest of the Project Site, and the Fairview Heights station located approximately 2 miles north of the Project Site. Construction of the Metro Crenshaw/LAX Line is estimated to be completed in 2019, before construction of the proposed IBEC Project would begin.

In addition, the IBEC Project will provide a substantial number of jobs near transit, at an infill location along a Livable Corridor. Livable Corridors are defined as "arterial roadways where jurisdictions may plan for a combination of the following elements: high-quality bus frequency; higher density residential and employment at key intersections; and increased active transportation through dedicated bikeways."[15]

The IBEC Project would have a robust IBEC TDM Program to ensure that employees, attendees, customers, and visitors of the IBEC Project would have access to and would utilize alternative forms of transportation. The IBEC TDM Program would include monetary incentives to encourage the use of alternative transportation modes, event-day shuttles to Metro rail stations, an employee vanpool program, a regional park-n-ride program utilizing charter coach buses for NBA games and other large events, event day local minibus/microtransit service, and staging and parking areas for charter coach buses and minibus/microtransit vehicles, among

[14] 2016 RTP/SCS p. 8.
[15] 2016 RTP/SCS p. 8.

other measures. As part of the IBEC TDM Program, the IBEC Project also would provide bicycle parking spaces, dedicated spaces for car share or zero emission vehicles, and electric vehicle charging stations in excess of the requirements under Inglewood Municipal Code Section 12-42.1 to encourage non-polluting transportation alternatives.

Information to show the project will result in a minimum investment of one hundred million dollars ($100,000,000) in California upon completion of construction.

The proposed IBEC Project is a major arena development project with additional ancillary uses within the approximately 35-acre project area. It includes the purchase, excavation, grading, and geotechnical improvement of the Project Site, and the design and construction of the IBEC Project. The IBEC Project would consist of an arena designed to host the LA Clippers basketball team with up to 18,000 fixed seats for National Basketball Association (NBA) games. The arena could also be configured with up to 500 additional seats for events such as family shows, concerts, conventions and corporate events, and non-LA Clippers sporting events. In addition, the IBEC Project would include an approximately 85,000-square foot team practice and athletic training facility; approximately 71,000 square feet of LA Clippers team office space; an approximately 25,000-square foot sports medicine clinic; approximately 63,000 square feet of ancillary retail, restaurant, community space and similar uses; an outdoor plaza including landscaped areas, outdoor basketball courts, and outdoor community gathering space; two parking structures and a surface parking lot; and an approximately 150-room hotel. Anticipated construction duration would be 36 months. The IBEC Project costs would far exceed the $100 million minimum investment requirement of AB 987.

Information establishing that the prevailing wage, living wage, and skilled and trained workforce requirements of Public Resources Code section 21168.6.8(b)(2) will be satisfied.

The IBEC Project would create high-waged, highly skilled jobs that pay prevailing wages and living wages, and would employ a skilled and trained workforce, as defined in Public Contract Code section 2601(d), and will comply with all applicable provisions of Public Resources Code section 21168.6.8. As defined in Section 21168.6.8(b)(2), "jobs that pay prevailing wages" means that all construction workers employed in the execution of the IBEC Project would receive at least the general prevailing rate of per diem wages for the type of work and geographic area, as determined by the Director of Industrial Relations pursuant to Sections 1773 and 1773.9 of the Labor Code. The Applicant has already entered into a project labor agreement (PLA) to fulfill the requirements of Section 21168.6.8(b)(2), including the skilled and trained workforce requirements.

Information establishing that the project does not result in any net additional emission of greenhouse gases, including greenhouse gas emissions from employee transportation, as determined by the State Air Resources Board pursuant to Division 25.5 (commencing with Section 38500) of the Health and Safety Code.

The methodology applied to the proposed IBEC Project and IBEC Project Variants for this AB 987 application is consistent with AB 900 methodology developed by the California Air Resources Board. The GHG analysis quantified emissions anticipated from the IBEC Project and IBEC Project Variants including project construction emissions and operational emissions and compared them against existing baseline emissions in order to determine the IBEC Project's net new emissions. The full details of the analysis are provided in **Attachment G *IBEC Project GHG Analysis***.

To determine the existing 2018 baseline, the GHG analysis quantified emissions for existing buildings on the Project Site that would be removed and for existing uses that would relocate to the IBEC Project Site, including the existing LA Clippers games at the Staples Center, the existing LA Clippers Team Offices in downtown Los Angeles, the existing LA Clippers Training Center in the Playa Vista neighborhood of Los Angeles, and existing non-NBA events that would occur at the IBEC Project arena instead of at various other venues throughout the Los Angeles region (i.e., market-shifted non-NBA events). This analysis assumes that after the LA Clippers Team Offices relocate to the IBEC Project Site, the vacated existing office space would be used by a different, unknown office tenant in the future.

Construction emissions for the proposed IBEC Project and IBEC Project Variants were estimated for all construction years from 2021 through 2024. Construction activities would generate GHG emissions associated with heavy-duty construction equipment, material-hauling trucks, and construction-worker vehicles.

The operational life of the IBEC Project is assumed to be 30 years and operational emissions were estimated from July 1, 2024 (the anticipated beginning of operations) through 2054. Operational emission sources include on-road motor vehicles (mobile), energy (electricity and natural gas), water and wastewater, solid waste, area, and stationary (emergency generators). Mobile source emissions would be generated by vehicle trips from attendees, customers and employees. Energy sources would include both electricity and natural gas consumption. Indirect emissions sources include emissions from electricity generation at off-site utility providers.

Consumption of water and generation of wastewater would also result in indirect GHG emissions because of the electricity consumption associated with the off-site conveyance, distribution, and treatment of water and wastewater. Solid waste disposal from operation of the IBEC Project and IBEC Project Variants would result in indirect, off-site GHG emissions. Area source emissions would be associated with activities such as maintenance of landscaping and grounds. Operation of the emergency generators for testing and maintenance would be a source of direct stationary source emissions.

Operational emissions associated with the IBEC Project, anticipated to occur from July 1, 2024 through 2054, were estimated based on three operational scenarios: (1) IBEC Project without GHG reduction measures, representing IBEC Project operations absent implementation of any GHG reduction measures beyond current building code requirements (e.g., 2019 Title 24 standards); (2) IBEC Project with local, direct GHG reduction measures, demonstrating the reductions in GHG emissions achieved through local, direct measures as defined by AB 987, including the implementation of the IBEC TDM Program and 50% of the reductions attributable to project design features and measures necessary to meet the LEED Gold certification requirement; and (3) IBEC Project with GHG reduction measures, calculating the total net new emissions resulting from the project with implementation of the IBEC TDM Program and 100% of the reductions resulting from the project design features and measures included in the LEED Gold certification strategy.

Design features within the IBEC Project's LEED Gold strategy would include sustainable design measures, such as a 700-kilowatt (kW) solar photo-voltaic (PV) system, generating approximately 1,085,000 kW-hours of clean energy annually. The project design will also comply with CalGreen Code Voluntary Tier 1, which is estimated to achieve a 10 percent reduction in energy consumption over Title 24 2019 standards based on the preliminary design of the IBEC Project.

GHG emissions from construction of the IBEC Project and IBEC Project Variants include emissions from off-road equipment and construction trips. Emissions were estimated for each year that construction would occur based on emission factors for equipment fleet averages specific to that calendar year. Advancements in engine technology, retrofits, and turnover in the equipment fleet are anticipated to result in lower levels of emissions over time as stricter standards are required.

The trip generation analysis assumed two project conditions, annual trip rates for the IBEC Project Without IBEC TDM Program and annual trip rates for the IBEC Project With IBEC TDM Program. The calculations are included in **Attachment G.** The IBEC TDM Program would result in vehicle trip reductions from use of other modes of transportation, such as transit-rail shuttles, public buses, minibuses/microtransit buses, vanpool, charter coach buses, walking, and bicycling. Mobile source emissions for the With IBEC TDM Program scenario also include emissions from IBEC TDM Program measures, such as transit-rail shuttles, public buses, minibuses/microtransit buses, vanpool, and charter coach buses.[16]

The results of the GHG analysis indicate that the IBEC Project and the IBEC Project Variants under the IBEC Project without GHG reduction measures would result in net additional GHG emissions compared to the baseline. Half or 50 percent of these net new GHG emissions must

[16] Mobile source emissions for the Without IBEC TDM Program scenario include employee shuttle trips from off-site parking lots, as off-site employee parking would be used regardless of implementation of the IBEC TDM Program, but do not include trips from other IBEC TDM Program measures.

be reduced by local, direct measures including the IBEC TDM Program and half of the reductions achieved through project design features used to meet the LEED Gold certification requirement. Compliance with AB 987 is demonstrated by Table 3 for the proposed IBEC Project and Table 4 for the IBEC Project Variants. Tables 3 and 4 summarize the GHG emissions and identify the reductions that would be achieved through the local, direct measures implemented for the IBEC Project and IBEC Project Variants, the remaining 50 percent of reductions achieved through project design features used to meet the LEED Gold certification requirement, and the remaining emissions reductions needed to achieve net zero GHG emissions, which could be achieved through the purchase of offset credits and/or through GHG reductions that would result from measures identified in order to satisfy AB 987's separate NOx and $PM_{2.5}$ reduction requirements (i.e., GHG reduction co-benefits).[17]

17 AB 987 requires that, as a condition of project approval, the IBEC project must achieve reductions of 400 tons of oxides of nitrogen (NOx) and 10 tons of particulate matter less than 2.5 microns in diameter ($PM_{2.5}$) over 10 years following the commencement of construction of the project. Of these amounts, 130 tons of NOx and 3 tons of $PM_{2.5}$ must be achieved within the first year following commencement of construction. If the project sponsor can demonstrate and verify to the South Coast Air Quality Management District that it has invested at least $30 million dollars toward achieve those air pollutant reductions, only one-half of these reduction amounts must be achieved.

Table 3. IBEC Project Local Direct Measures Emissions Reductions and Offsets Summary		
IBEC Project Condition and Reductions	**Emissions Estimates (MT CO_2e)**	**Percent of Net New Emissions**
Total Net New Emissions IBEC Project Without GHG Reduction Measures	101,623	100%
Required GHG Reductions from Local, Direct Measures	50,812	50%
Total Emissions Reductions from LEED Gold	7,925	8%
50% of Total Emission Reductions from LEED Gold Qualifying as Local, Direct Measures	3,962	4%
Total Reductions from IBEC TDM Program	54,233	53%
Total Amount of Reductions from Local, Direct Measures (TDM Program and 50% of LEED Gold)	58,195	57%
Total Amount of Reductions from GHG Reduction Measures (TDM Program and 100% of LEED Gold)	62,158	61%
Additional Reductions Needed from Offset Credits and/or Co-benefits of NOx and PM2.5 Reduction Measures	39,466	39%
Total Net New Emissions	0	0%

Notes: Totals may not add due to rounding. MT CO_2e = metric tons carbon dioxide equivalents

Table 4. IBEC Project Variants Local Direct Emissions Reductions and Offsets Summary		
Project Condition and Reductions	**Emissions Estimates (MT CO_2e)**	**Percent of Net New Emissions**
Total Net New Emissions IBEC Project Variants Without GHG Reduction Measures	99,644	100%
Required GHG Reductions from Local, Direct Measures	49,822	50%
Total Emissions Reductions from LEED Gold	7,925	8%
50% of Total Emission Reductions from LEED Gold Qualifying as Local, Direct Measures	3,962	4%
Total Reductions from IBEC TDM Program	54,233	54%
Total Amount of Reductions from Local, Direct Measures (TDM Program and 50% of LEED Gold)	58,195	58%
Total Amount of Reductions from GHG Reduction Measures (TDM Program and 100% of LEED Gold)	62,158	62%
Additional Reductions Needed from Offset Credits and/or Co-benefits of NOx and PM2.5 Reduction Measures	37,486	38%
Total Net New Emissions	0	0%

Notes: Totals may not add due to rounding. MT CO_2e = metric tons carbon dioxide equivalents

The tables confirm that the IBEC Project and the IBEC Project Variants would meet the AB 987 local, direct measures requirement because at least half of the net new emissions would be offset by local, direct measures. The remaining net new emissions of 39,466MT CO_2e for the IBEC Project and 37,486 MT CO_2e for the IBEC Project Variants after implementation of the local, direct measures and the rest of the LEED Gold project design features and measures would need to be offset by the purchase of carbon credits, additional on- or off-site emissions reduction measures, and/or through GHG reduction co-benefits of NOx and $PM_{2.5}$ reduction measures.

As required by AB 987, the proposed IBEC Project cannot result in any net new emission of greenhouse gases, including greenhouse gas emissions from employee transportation. This must be determined by the Air Resources Board pursuant to Division 25.5 (commencing with Section 38500) of the Health and Safety Code. Measures for offsetting the net increase in GHG emissions include project design features incorporated to obtain LEED Gold certification, the IBEC TDM Program, potential GHG reduction co-benefits from NOx and $PM_{2.5}$ reduction measures, and carbon credit offsets. The project sponsor has committed to the LEED Gold and IBEC TDM Program, which are required under AB 987, and commits to obtaining sufficient additional GHG emission reductions through purchase of carbon offset credits and/or co-

benefits from NOx and $PM_{2.5}$ reduction measures to ensure there would be no net additional GHG emissions from the IBEC Project or IBEC Project Variants.

If using offset credits, the project sponsor will, to the extent feasible, place the highest priority on the purchase of offset credits that produce emission reduction within the City of Inglewood or the boundaries of the South Coast Air Quality Management District. As shown in Tables 3 and 4 above, the reductions estimated from local, direct GHG reduction measures for the IBEC Project and IBEC Project Variants exceed the requirement under AB 987 to obtain at least 50 percent of GHG emission reductions through such local, direct measures. Therefore, it is anticipated that offset credits would be used to achieve less than 50 percent of the overall GHG emission reductions necessary to meet the net zero GHG emissions requirement.

Carbon credits will be verified by a third party accredited by ARB, such as the American Carbon Registry, Climate Action Reserve, and Verified Carbon Standard. Carbon credits shall be purchased at a net present value although the contracts could propose acquiring the credits in advance of the emission-generating activities to be offset. Contracts to purchase carbon credits for construction emissions will be entered into prior to the issuance of grading permits, and contracts to purchase carbon credits for operational emissions will be entered into prior to the issuance of the final certificate of occupancy for the IBEC Project arena. Copies of the contract(s) shall be provided to ARB and the Governor's office to verify that construction and operational emissions have been offset.

Information establishing that the project will comply with the requirements for commercial and organic waste recycling in Chapters 12.8 (commencing with Public Resources Code section 42649) and 12.9 (commencing with Public Resources Code Section 42649.8), as applicable.

California has had statutory and regulatory requirements related to solid waste recycling for well over 10 years requiring local governments to reduce solid waste in landfills with waste diversion programs. The two more recent statutes, in Chapters 12.8 and 12.9 of Division 30 of the Public Resources Code related to waste management, require recycling of solid waste and organic waste. Chapter 12.8 requires that businesses and multi-family residential buildings with five units or more that generate more than four cubic yards of solid waste per week source separate its solid waste and subscribe to some kind of recycling service consistent with local ordinances or state regulations. Chapter 12.9 requires that businesses generating over specified amounts of organic solid waste per week arrange for recycling services for that organic solid waste, and also requires that if the state has not reached a reduction of 50 percent below the 2014 level of disposal of organic waste by 2020, businesses that generate more than two cubic yards of solid waste per week must source separate and arrange for recycling of organic solid waste. These statutes also require local jurisdictions to establish a commercial solid waste recycling program if it did not already have one as of July 2012, and an organic solid waste recycling program by January 2016 if it did not already have one.

The proposed IBEC Project or IBEC Project Variants will be subject to these statutory requirements, and will comply by following the requirements of Los Angeles County and the City of Inglewood. Solid waste generated within the County is disposed of at privately owned landfill facilities throughout Los Angeles County. In the City of Inglewood private haulers provide waste collection services for commercial developments within the City which would include the IBEC Project. Solid waste transported by private haulers is recycled, reused, transformed at a waste-to-energy facility, or disposed of at a landfill. Sunshine Canyon Landfill is the nearest municipal waste landfill within the County that could serve the proposed IBEC Project, and is permitted to accept commercial, and construction nonhazardous waste.

Construction and demolition activities would generate solid waste consisting of materials from existing structures to be removed, and excess waste from construction materials and packaging associated with the proposed structures. Prior to diversion for recycling, demolition of the existing structures, and construction of the proposed IBEC Project would generate solid waste from the demolition. Demolition of existing streets, pavements and concrete foundations could produce materials that can be recycled provided they conform to the specifications of the Standard Specifications for Public Works Construction, the latest Edition ("The Green Book"). The IBEC Project would recycle at least 75 percent of demolition materials, which exceeds the City of Inglewood’s target of 50 percent demolition waste recycling and is in accordance with State diversion targets that aim to divert a minimum of 75 percent of construction and demolition materials from landfill disposal.

The IBEC Project would subscribe to a municipal solid waste collection service that is approved by the City and that meets applicable City and State waste collection, management, recycling and diversion requirements. In addition, the Project would also comply with all federal, State, and local regulations related to solid waste. Thus, the Applicant will be required to comply not only with the Public Resources Code requirements for commercial and organic waste recycling, but also with the requirements of Los Angeles County's and the City of Inglewood's local ordinances requiring recycling and composting solid waste both during construction and during operation of the IBEC Project or the IBEC Project Variants. The City of Inglewood's current solid waste and recycling hauler is Consolidated Disposal Services (CDS), a Republic Services company. CDS assists businesses in developing programs for businesses to recycle, based on the results of a waste audit.[18] Republic Services/CDS also provides containers to satisfy organic waste recycling requirements.[19]

18 https://www.cityofinglewood.org/296/Business-Recycling (accessed October 29, 2018).
19 http://local.republicservices.com/site/los-angeles-ca/inglewood (accessed October 29, 2018).

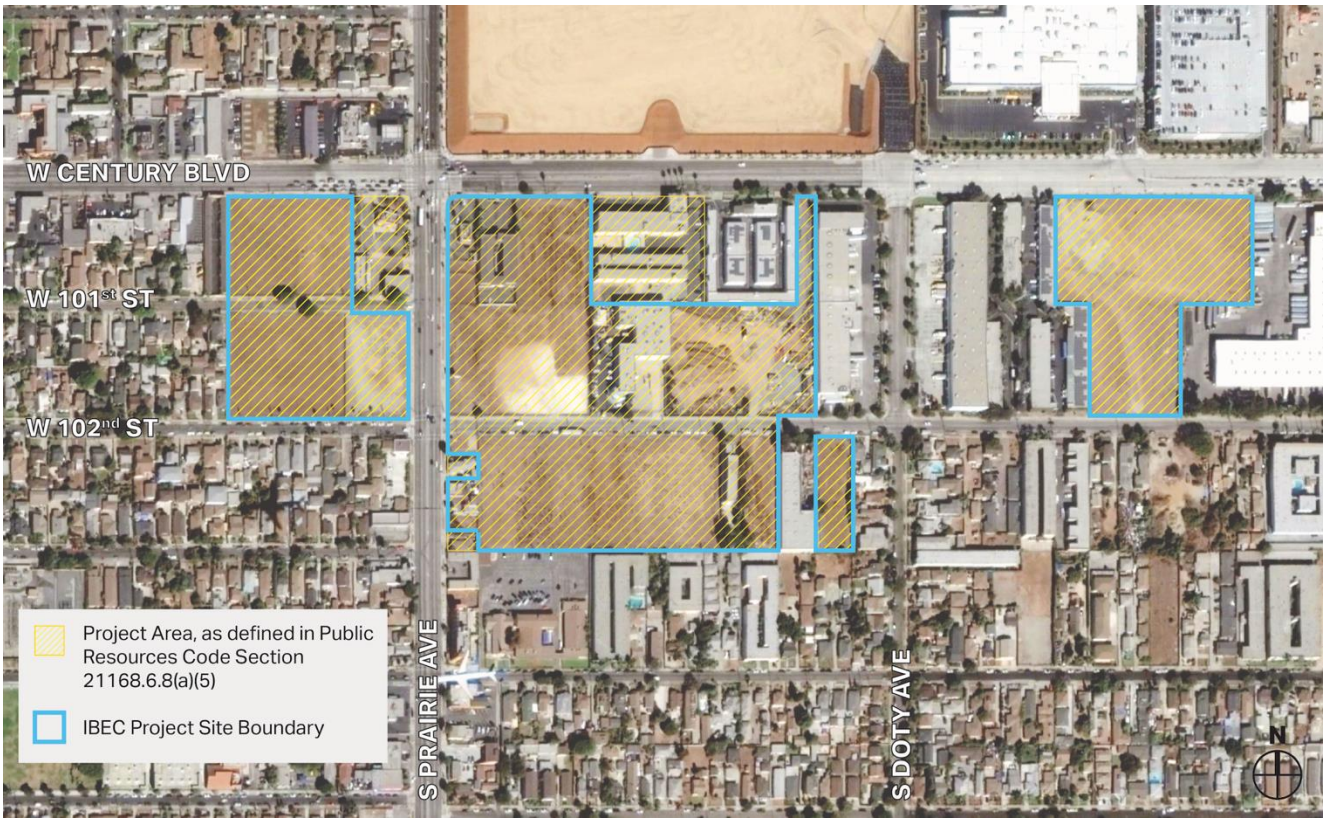
Information to show that the project applicant has entered into a binding and enforceable agreement that all mitigation measures required pursuant to this division and any other environmental measures required by this section to certify the project under this section shall be conditions of approval of the project, and those conditions will be fully enforceable by the lead agency or another agency designated by the lead agency. In the case of environmental mitigation measures and any other environmental measures required by this section, the applicant agrees, as an ongoing obligation, that those measures will be monitored and enforced by the lead agency for the life of the obligation. The project applicant shall submit to the lead agency an annual status report on the implementation of the environmental mitigation measures and any other environmental measures required by this section. Information to show that the project applicant will pay any additional costs incurred by the courts in hearing and deciding any case subject to Public Resources Code section 21168.6.8 and costs of preparing the record of proceedings.

Written acknowledgement from the project sponsor and the City of Inglewood containing commitments regarding Public Resources Code sections 21168.6.8(b)(5 - 7) is included as **Attachment F**. This acknowledgment is a binding and enforceable agreement to implement all mitigation measures required pursuant to CEQA and any other environmental measures required by AB 987. The project sponsor is committed to comply with all Mitigation Monitoring and Reporting Program measures from the EIR and environmental measures required by AB 987 that are included as conditions of approval and that those conditions will be fully enforceable by the City of Inglewood. The project sponsor agrees to pay any additional costs incurred by the courts in hearing and deciding any case subject to Public Resources Code section 21168.6.8, and will pay the costs of preparing the record of proceedings.

Attachment A

Project Maps

Attachment A-1. Project Area and Project Site Boundary



Attachment A-2. Proposed Inglewood Basketball and Entertainment Center Project Site Plan

Attachment B

LEED Scorecards

LEED v4 for BD+C: Core and Shell

IBEC Project Checklist

Target Certification: Gold

Anticipated Certification: Gold

Y	L	U	N	P			
1				D	Credit	Integrative Process	1

10	1	5	4			Location and Transportation	20
				D	Credit	LEED for Neighborhood Development Location	20
2				D	Credit	Sensitive Land Protection	2
		3		D	Credit	High Priority Site	3
		2	4	D	Credit	Surrounding Density and Diverse Uses	6
6				D	Credit	Access to Quality Transit	6
1				D	Credit	Bicycle Facilities	1
	1			D	Credit	Reduced Parking Footprint	1
1				D	Credit	Green Vehicles	1

5	1	3	1			Sustainable Sites	11
Y				C	Prereq	Construction Activity Pollution Prevention	Required
1				D	Credit	Site Assessment	1
		2		D	Credit	Site Development - Protect or Restore Habitat	2
	1			D	Credit	Open Space	1
2		1		D	Credit	Rainwater Management	3
1			1	D	Credit	Heat Island Reduction	2
1				D	Credit	Light Pollution Reduction	1
1				D	Credit	Tenant Design and Construction Guidelines	1

8	0	1	2			Water Efficiency	11
Y				D	Prereq	Outdoor Water Use Reduction	Required
Y				D	Prereq	Indoor Water Use Reduction	Required
Y				D	Prereq	Building-Level Water Metering	Required
2				D	Credit	Outdoor Water Use Reduction	2
4			2	D	Credit	Indoor Water Use Reduction	6
2				D	Credit	Cooling Tower Water Use	2
		1		D	Credit	Water Metering	1

16	5	7	8			Energy and Atmosphere	33
Y				C	Prereq	Fundamental Commissioning and Verification	Required
Y				D	Prereq	Minimum Energy Performance	Required
Y				D	Prereq	Building-Level Energy Metering	Required
Y				D	Prereq	Fundamental Refrigerant Management	Required
3			3	C	Credit	Enhanced Commissioning	6
8	3	2	5	D	Credit	Optimize Energy Performance	18
1				D	Credit	Advanced Energy Metering	1
		2		D	Credit	Demand Response	2
3		3		D	Credit	Renewable Energy Production	3
1				D	Credit	Enhanced Refrigerant Management	1
	2			D	Credit	Green Power and Carbon Offsets	2

4	1	3	5			Materials and Resources	14
Y				D	Prereq	Storage and Collection of Recyclables	Required
Y				C	Prereq	Construction and Demolition Waste Management Planning	Required
		3	2	C	Credit	Building Life-Cycle Impact Reduction	6
1			1	C	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
1			1	C	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
	1		1	C	Credit	Building Product Disclosure and Optimization - Material Ingredients	2
2				C	Credit	Construction and Demolition Waste Management	2

9	0	1	0			Indoor Environmental Quality	10
Y				D	Prereq	Minimum Indoor Air Quality Performance	Required
Y				D	Prereq	Environmental Tobacco Smoke Control	Required
2				D	Credit	Enhanced Indoor Air Quality Strategies	2
3				C	Credit	Low-Emitting Materials	3
1				C	Credit	Construction Indoor Air Quality Management Plan	1
2		1		D	Credit	Daylight	3
1				D	Credit	Quality Views	1

5	0	1	0			Innovation	6
1				D	Credit	Innovation: Green Training for Contractors, trades, operators	1
1				D		Innovation: Green Education Program	1
1				D		Innovation: LEED O+M Starter Kit (Pest Management + Green Cleaning Program	1
1				D		Innovation: Purchasing - lamps	1
		1		D		Innovation: Integrated transportation management plan	1
1				D	Credit	LEED Accredited Professional	1

4	0	0	0			Regional Priority	4
1					Credit	Regional Priority: Indoor Water Use Reduction	1
1					Credit	Regional Priority: Optimized Energy Performance	1
1					Credit	Regional Priority: Rainwater Management	1
1					Credit	Regional Priority: Access to Quality Transit	1

62	8	21	20		TOTALS	Possible Points:	110

Certified: 40 to 49 points, **Silver:** 50 to 59 points, **Gold:** 60 to 79 points, **Platinum:** 80 to 110

Key: Y - Yes, **L** - Likely, **U** - Unlikely, **N** - No, **P -** Design Phase

LEED v4 for BD+C: New Construction and Major Renovation

IBEC Project Checklist

Target Certification: Gold

Anticipated Certification: Gold

Y	L	U	N	P			
1				D	Credit	Integrative Process	1

7	2	4	3		**Location and Transportation**		**16**
				D	Credit	LEED for Neighborhood Development Location	16
1				D	Credit	Sensitive Land Protection	1
		2		D	Credit	High Priority Site	2
		2	3	D	Credit	Surrounding Density and Diverse Uses	5
5				D	Credit	Access to Quality Transit	5
	1			D	Credit	Bicycle Facilities	1
	1			D	Credit	Reduced Parking Footprint	1
1				D	Credit	Green Vehicles	1

5	1	3	1		**Sustainable Sites**		**10**
Y				C	Prereq	Construction Activity Pollution Prevention	Required
1				D	Credit	Site Assessment	1
		2		D	Credit	Site Development - Protect or Restore Habitat	2
	1			D	Credit	Open Space	1
2		1		D	Credit	Rainwater Management	3
1			1	D	Credit	Heat Island Reduction	2
1				D	Credit	Light Pollution Reduction	1

8	0	1	2		**Water Efficiency**		**11**
Y				D	Prereq	Outdoor Water Use Reduction	Required
Y				D	Prereq	Indoor Water Use Reduction	Required
Y				D	Prereq	Building-Level Water Metering	Required
2				D	Credit	Outdoor Water Use Reduction	2
4			2	D	Credit	Indoor Water Use Reduction	6
2				D	Credit	Cooling Tower Water Use	2
		1		D	Credit	Water Metering	1

18	3	4	8		**Energy and Atmosphere**		**33**
Y				C	Prereq	Fundamental Commissioning and Verification	Required
Y				D	Prereq	Minimum Energy Performance	Required
Y				D	Prereq	Building-Level Energy Metering	Required
Y				D	Prereq	Fundamental Refrigerant Management	Required
3			3	C	Credit	Enhanced Commissioning	6
11	1	1	5	D	Credit	Optimize Energy Performance	18
1				D	Credit	Advanced Energy Metering	1
		2		D	Credit	Demand Response	2
3				D	Credit	Renewable Energy Production	3
		1		D	Credit	Enhanced Refrigerant Management	1
	2			D	Credit	Green Power and Carbon Offsets	2

4	1	3	5		**Materials and Resources**		**13**
Y				D	Prereq	Storage and Collection of Recyclables	Required
Y				C	Prereq	Construction and Demolition Waste Management Planning	Required
		3	2	C	Credit	Building Life-Cycle Impact Reduction	5
1			1	C	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
1			1	C	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
	1		1	C	Credit	Building Product Disclosure and Optimization - Material Ingredients	2
2				C	Credit	Construction and Demolition Waste Management	2

9	0	6	1		**Indoor Environmental Quality**		**16**
Y				D	Prereq	Minimum Indoor Air Quality Performance	Required
Y				D	Prereq	Environmental Tobacco Smoke Control	Required
2				D	Credit	Enhanced Indoor Air Quality Strategies	2
3				C	Credit	Low-Emitting Materials	3
1				C	Credit	Construction Indoor Air Quality Management Plan	1
2				C	Credit	Indoor Air Quality Assessment	2
1				D	Credit	Thermal Comfort	1
		2		D	Credit	Interior Lighting	2
		2	1	D	Credit	Daylight	3
		1		D	Credit	Quality Views	1
		1		D	Credit	Acoustic Performance	1

5	0	1	0		**Innovation**		**6**
1				D	Credit	Innovation: FanFirst / Occupant Comfort Survey	1
1				D		Innovation: Green Education Program	1
1				D		Innovation: LEED O+M Starter Kit (Pest Management + Green Cleaning Program	1
1				D		Innovation: Purchasing - lamps (100% LED lamps)	1
		1		D		Innovation: Design for active occupants	1
1				D	Credit	LEED Accredited Professional	1

4	0	0	0		**Regional Priority**		**4**
1					Credit	Regional Priority: Enhanced Commissioning	1
1					Credit	Regional Priority: Optimized Energy Performance	1
1					Credit	Regional Priority: Outdoor Water Use Reduction	1
1					Credit	Regional Priority: Indoor Water Use Reduction	1

61	7	22	20		**TOTALS**	Possible Points:	**110**

Certified: 40 to 49 points, **Silver:** 50 to 59 points, **Gold:** 60 to 79 points, **Platinum:** 80 to 110

Key: Y - Yes, **L** - Likely, **U** - Unlikely, **N** - No, **P -** Design Phase

Attachment C

IBEC TDM Program

AECOM

IBEC Project Transportation Demand Management Program

This memorandum, Attachment C of the AB 987 application for the proposed Inglewood Basketball and Entertainment Center Project (IBEC Project), provides a summary of the Transportation Demand Management Program for the IBEC Project (IBEC TDM Program). The IBEC TDM Program includes strategies, incentives and tools that provide opportunities for event attendees and employees to reduce single-occupancy vehicle trips and use other modes of transportation besides automobile to travel to basketball games and other events hosted at the IBEC Project.

In compliance with the AB 987 requirement, the IBEC TDM Program is designed to achieve a 15% reduction in vehicle trips on an annual basis as compared to the IBEC Project absent a transportation demand management program through implementation of a combination of the measures detailed in this attachment. The IBEC TDM Program is therefore also designed to exceed the required 7.5% reduction in vehicle trips by the end of the first NBA season, as required by AB 987. The measures included in the IBEC TDM Program are subject to further refinement and revision, and will be coordinated with the City of Inglewood at the time of project approval, with achievement of the 15% reduction in vehicle trips verified to the City of Inglewood and the Office of Planning and Research no later than January 1, 2030.

TDM 1 – Encourage Alternative Modes of Transportation (Rail, Public Bus, and Vanpool)

The IBEC Project would encourage alternative modes of transportation use by providing monetary incentives and bus stop improvements near the Project Site such as:

- Integrated event and transit ticketing to enable seamless connections and provide event-day travel updates.
- Discounted event tickets with the purchase of a transit pass or providing proof of a registered TAP card (the regional fare payment method).
- Giveaways for transit users (goods for attendees, free tickets for employees, etc.).
- Rewards/gamification opportunities for fans to compete for prizes or points based on their transportation choices.
- Bus stop facilities improvements: the IBEC Project would provide on-site and/or off-site improvements such as lighting, new benches and overhead canopies, added bench capacity if needed, and real-time arrival information for an improved user experience for bus stops that are relocated as a result of the IBEC Project.
- Transit and/or Multi-Modal Subsidy: the IBEC Project would provide pre-tax commuter benefits for employees.
- Vanpool Subsidy: This would provide pre-tax commuter benefits for employees.

- Marketing and outreach campaign for transit usage.

TDM 2 – Event-day Dedicated Shuttle Services

The IBEC Project will provide connectivity to the existing and future Metro Rail Stations and would take advantage of the transportation resources in the area. The IBEC Project would ensure a sufficient number of shuttles will be provided for a successful and convenient connectivity with short wait times. The following would be provided:

- The IBEC Project would provide dedicated shuttle service from the Green Line at Hawthorne Station, Crenshaw/LAX Line at AMC/96th Station, and Crenshaw/LAX Line at La Brea/Florence (Downtown Inglewood) Stations for arena events. This shuttle service would be a dedicated event-day shuttle services from the venue for employees and attendees.
- The IBEC Project would provide an estimated 27 shuttles with a capacity of 45 persons per shuttle to accommodate employees and attendees traveling to and from the Project Site. Due to the arrival and departure of employees prior to the attendees, the same shuttles would be utilized for the employees. It anticipated the shuttle service would begin two hours before the game and extend to 30 minutes after the start. After the game, shuttle service would begin 30 minutes before the end, and continues one hour after.
- The IBEC Project would provide a convenient and safe location on-site for shuttle pick-up and drop-off on the east side of Prairie Avenue, approximately 250 feet south of Century Boulevard. The drop-off location would be adjacent to the arena so that shuttle users would not need to cross Prairie Avenue to arrive at the arena.

TDM 3 – Encourage Carpools and Zero-Emission Vehicles

The IBEC Project would provide several incentives that would encourage carpooling and zero-emission vehicles as a means for sharing access to and from the Project Site including the following:

- Provide incentives for carpools or zero-emission vehicles, including preferential parking with the number of parking spots in excess of applicable requirements, reduced parking costs, or other discounts/benefits.
- Provide variable parking price based on car occupancy - structured to encourage carpooling.
- The IBEC Project would provide 8% of parking spaces with electrical vehicle charging stations in excess of the minimum requirement of 6%.

TDM 4 – Encourage Active Transportation

The IBEC Project includes features which would enhance the access for bicyclists and pedestrians including the following:

- Bicycle Parking: Provide bicycle parking in excess of applicable code requirements. The Project Site would provide 60 employee bike parking spaces and 23 attendee bike parking spaces.
- Provide showers and lockers for employees.
- A bike valet service would be implemented if needed to accommodate bike parking space needs.
- Bicycle Fix-it Station: Provide a bicycle repair station where bicycle maintenance tools and supplies are readily available on a permanent basis and offered in good condition.
- Coordinate Bike Pools and Walk Pools.
- Sidewalks or other designated pathways following safe routes from the pedestrian circulation to the bicycle parking facilities and throughout the development

TDM 5 – Employee Vanpool Program

The IBEC Project would provide an employee vanpool program that would accommodate for up to 66 employees utilizing the vanpool service. Each vanpool is assumed to have a capacity of 15 persons per vehicle. The Vanpool Program would be in conjunction with a vanpool subsidy providing pre-tax commuter benefits for employees as indicated in TDM 1.

TDM 6 – Park-n-Ride Program

The IBEC Project would provide a regional park-n-ride program that would utilize charter coach buses with a capacity of up to 45 persons per bus to accommodate up to 1,980 attendees. Parking lot locations would correspond to zip code ticket purchase data, and the site circulation would be designed to account for the charter coaches. The operation of this park-n-ride would be similar to the currently operating park-n-ride program from the Hollywood Bowl venue located in the Hollywood Hills within the County of Los Angeles.

TDM 7 - Information Services

The IBEC Project would provide a number of services which would inform the public about activities at the IBEC including the following:

- Strategic Multi-modal Signage/Wayfinding

- Real-time travel information; Changeable Message Sign (CMS) and social media.
- Welcome packets for new employees and ongoing marketing
- Commercials/Advertisement - Television, Website, Social Media, Radio, etc.
- Information kiosk or bulletin board providing information about public transportation options.

TDM 8 – Reduce On-Site Parking Demand

The IBEC Project includes features that reduce on-site parking demand such as:

- Provide coach bus/minibus/microtransit staging and parking areas: the IBEC Project is designed to accommodate 20 minibus/microtransit/paratransit parking spaces and 23 charter coach bus spaces. The capacity for minibus/microtransit/paratransit is 10 persons per vehicle and 45 persons per bus for the charter coach bus.
- Allocated sufficient TNC staging spaces: the IBEC Project is designed to accommodate approximately 160 spaces for TNC staging.

TDM 9 – Event-Day Local Microtransit Service

- The IBEC Project would provide a local minibus/microtransit service for all event-days with a service range of approximately six (6) miles surrounding the Project Site. Each minibus is assumed to have a capacity of 10 persons per vehicle, and the service would accommodate up to 66 employees and up to 180 attendees on all event days.

Attachment D

IBEC Trip Generation Memorandum

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IBEC Project Trip Generation Memorandum

This memorandum, Attachment D to the AB 987 application for the proposed Inglewood Basketball and Entertainment Center Project (IBEC Project), provides a summary of trip generation estimates for the IBEC Project. It has been prepared to demonstrate the effectiveness of the IBEC Transportation Demand Management Program (IBEC TDM Program) to achieve a 15% reduction in vehicle trips as compared to the IBEC Project absent implementation of a transportation demand management program. The IBEC TDM Program is detailed in Attachment C to the AB 987 application. The measures included in the IBEC TDM Program are subject to further refinement and revision, and will be coordinated with the City of Inglewood at the time of project approval, with achievement of the 15-percent reduction in vehicle trips verified to the City of Inglewood and Office of Planning and Research no later than January 1, 2030.

The IBEC Project presented in the AB 987 application and evaluated in this memorandum includes two variants to allow for flexibility in the development of the project, the Alternate Prairie Access Variant and the West Century Boulevard Pedestrian Bridge Variant, as described in the AB 987 application. Given that both variants would have the same program of development, anticipated number and type of events, and employment as the IBEC Project, the trip generation and travel demand would also be the same. Therefore, although this memo only specifically addresses the IBEC Project, the analysis and conclusions would remain the same for either of the IBEC Project Variants.

A vehicle trip generation analysis was conducted for the IBEC Project to estimate the anticipated reduction in vehicle trips produced by implementation of the IBEC TDM Program. AB 987 requires the IBEC TDM Program to achieve, upon full implementation, a 15 % reduction in the number of vehicle trips compared to operations absent the TDM Program. No less than a 7.5% reduction must be achieved and maintained by the end of the first NBA season during which an NBA team has played at the IBEC Project arena. The 15% reduction must be achieved and maintained as soon as feasible, but no later than January 1, 2030. In compliance with the AB 987 requirement, the IBEC TDM Program is designed to achieve a 15% reduction in vehicle trips on an annual basis upon implementation during the first NBA season, also meeting the 7.5% reduction in vehicle trips requirement.

The trip generation analysis below includes an estimation of vehicle trips for the LA Clippers home basketball games and other non-NBA basketball game events to be hosted at the IBEC Project arena, as well as LA Clippers employees who will use the LA Clippers practice and training facility and the LA Clippers offices, and vehicle trips associated with the sports medicine clinic, retail, restaurant, community space and hotel uses included in the IBEC Project. In order to demonstrate the effects of the IBEC TDM Program on vehicle trips, the following vehicle trip generation scenarios were developed:

- IBEC Project Without IBEC TDM Program Scenario
    - Weekdays Without and With Events

  - Weekends Without and With Events
- IBEC Project With IBEC TDM Program Scenario
  - Weekdays Without Events and With Events
  - Weekends Without Events and With Events

This trip generation analysis determines the vehicle trips associated with the different components of the IBEC Project. The two primary trip-generating components of the IBEC Project are the spectator events to be hosted at the IBEC Project and the related development included in the IBEC Project, as summarized below.

IBEC Project Events includes LA Clippers home basketball games and other events of various size, including concerts, other sporting events, family shows, conferences, and civic and community events. IBEC Project Events were analyzed by applying estimated mode share splits and average vehicle occupancy to the anticipated number of event attendees to determine the number of trips for an event. A more detailed discussion of the estimated mode share splits and average vehicle occupancy applied are discussed below in a separate section.

Ancillary Uses include the LA Clippers team office and LA Clippers practice and training facility, the sports medicine clinic, restaurant and retail space, community space, and hotel. The sports medicine clinic, dining and retail space, community space, and hotel uses were analyzed using the proposed land use allocation through application of the standardized trip generation rates, internal capture methodology and pass-by reduction from the nationally accepted ITE Trip Generation Handbooks 10th Edition[1]. As the LA Clippers office and the LA Clippers practice and training facility will only be utilized by LA Clippers employees, vehicle trips were estimated using the application of mode share splits and average vehicle occupancy[2] for those employees. Mode share splits and average vehicle occupancy applied for LA Clippers employees is based on the journey to work profile data for the County of Los Angeles[2] with adjustments due to transportation characteristics at the IBEC Project Site. A more detailed discussion of the mode share splits and average vehicle occupancy used in this analysis is provided below.

To determine the effects of the IBEC TDM Program on trip generation for the IBEC Project, the measures and strategies included in the IBEC TDM Program were analyzed to determine the changes in transportation mode shares and average vehicle occupancy and increased transit use resulting from implementation of the IBEC TDM Program. Comparison of the calculation of trip generation for the IBEC Project Without TDM Program scenario and the IBEC Project With TDM Program scenario demonstrates the reduction of vehicle trips expected to result from implementation of the IBEC TDM Program.

[1] Institute of Transportation Engineers, Trip Generation Handbooks 10th Edition, September, 2017
[2] Southern California Association of Governments, Profile of Los Angeles County, May, 2017

IBEC Project Events Trip Generation Methodology

The main component of the IBEC Project is a multipurpose arena that would host LA Clippers home basketball games and other entertainment and sporting events. Commonly used or standard trip generation resources, such as the Trip Generation Manual published by the Institute of Transportation Engineers (ITE), and similar methodologies, which provide estimates of vehicle trip generation based on the size or other features of a particular land use do not sufficiently address trip generation for the arena. Therefore, trip generation for the arena was based on the estimated attendance of the events to be hosted at the IBEC Project and travel characteristics derived from current attendees of LA Clippers games at Staples Center and other resources. Annual vehicle trip generation for the IBEC Project events was determined by determining the maximum number of employees and attendees and projected frequency for each event type and applying mode share splits average vehicle occupancy to determine the number of vehicle trips. For a conservative analysis, vehicle trip generation for the LA Clippers home basketball games and other events anticipated to occur at the IBEC Project is based on the maximum anticipated attendance for each event type.

Transportation mode share splits for the IBEC Project events are dependent on the implementation of the IBEC TDM Program and number of attendees anticipated for those events. Basketball home games and concerts were assumed to have the same mode share splits due to the anticipated large number of attendees and high parking demand compared to the provided on-site parking spaces. A different mode share split is assumed for the other events with a smaller number of attendees, because it is anticipated that for smaller events, there would be less incentive to use alternative means of transportation due to the lower parking demand for the same number of on-site parking spaces. Average vehicle occupancy varies depending on whether the event is occurring during the weekday or weekend. The various mode share splits and average vehicle occupancy, and determination of appropriate percentages applied, are discussed below.

Off-site parking and shuttle services would be provided for event employees. This trip generation analysis incorporates both the employee trips to the off-site parking lot and shuttle trips to arrive at the IBEC Project Site, but because the off-site parking would be relatively close to the Project Site, the employee trips are considered vehicle trip and the shuttle trips for employees from off-site parking are not considered a change in mode share from automobile travel.

Table 1 provides a summary of the projected annual events at the IBEC Project and the maximum number of attendees and employees for each event.

Table 1 – IBEC Project Events Program					
Events	Maximum # of Attendees	# of Employees	Annual # of Events		
			Total	Weekday (Mon-Fri)	Weekend (Sat-Sun)
Los Angeles Clippers Basketball Home Games					
Pre-Season	18,000	1,320	5	3	2
Home Games	18,000	1,320	41	29	12
Post-Season	18,000	1,320	3	2	1
Concerts					
Large Concerts	18,500	1,120	5	2	3
Medium Concerts	14,500	795	8	3	5
Small Concerts	9,500	530	10	4	6
Family Shows	8,500	530	20	10	10
Other Events	7,500	480	35	21	14
Conventions/Corporate Events	2,000	25	100	70	30
Plaza Events	4,000	25	16	8	8
Total			243	152	89

Source: AECOM 2018

The number and type of events provided in Table 1 represent the projected annual frequency of each event type for a typical year of operation of the IBEC Project. The annual number of postseason basketball games is based on the average number of home postseason basketball teams played by NBA teams since the inception of the current postseason format in the 2002-03 NBA season.

IBEC Project Ancillary Uses Trip Generation Methodology

Annual vehicle trip generation for the IBEC Project ancillary uses, other than the LA Clippers offices and the LA Clippers practice and training facility, were estimated using the gross area square footage or number of rooms for each ancillary use and applying standardized trip rates, internal capture reduction between ancillary uses, internal capture reduction between the ancillary uses and the arena events, pass-by reduction and the number of operating days.

The following provides an explanation of each of the factors applied to the trip generation calculation:

- Standardized trip rates from the ITE Trip Generation Handbook 10th edition were applied to that majority of the ancillary uses except for the LA Clippers Team Store and Other General Retail & Service. Since these ancillary uses are intended to be a specialty retail store and the ITE Trip Generation Handbook 10th edition does not have a specialty retail trip rates, standardized trip

rates for specialty retail from the San Diego Association of Governments (SANDAG)[3] were utilized. The standardized trip rates from SANDAG are accepted by many agencies throughout Southern California in lieu of the ITE trip generation rates.

- Internal capture adjustment between ancillary uses and pass-by trip reduction were based on the nationally accepted ITE Trip Generation Handbooks 10th Edition.
- The majority of the retail, dining and hotel ancillary uses are anticipated to operate seven days a week while the Sports Medicine Clinic and Community Space are anticipated to operate five weekdays per week. Internal capture percent reduction between the ancillary uses and the arena events is based on the assumption that during an event the customers of the ancillary uses would be event attendees. The percent reduction was calculated based on a comparison of an estimated weighted average duration of an event to the operating hours of the ancillary uses.

LA Clippers Employees (LA Clippers Offices and Practice and Training Facility)

The office space and the practice and training facility components of the IBEC Project are project-specific land uses that would be used only by LA Clippers employees. The method used to analyze trips for LA Clippers employees is similar to the analysis of trip generation for arena events, estimated using the number of employees and applying mode share splits, average vehicle occupancy and the number of operating days to determine annual trip generation. The number of LA Clippers employees is assumed to be the same as the current number of LA Clippers employees.

- The LA Clippers employees who will occupy the office space, including management and operations personnel, are assumed to work five days per week throughout the year.
- Although the working days for LA Clippers basketball employees, including players, coaches, and training and support staff, vary throughout the calendar year based on the NBA season and travel for away basketball games, LA Clippers basketball employees are conservatively assumed to travel to the IBEC Project Site (to the practice and training facility or to the arena) five days per week throughout the year except when traveling for away basketball games.
- The mode share splits and average vehicle occupancy used to calculate the vehicle trips for LA Clippers employees are discussed below.

Table 2 provides a summary of the ancillary uses and correlating square footages and trip rates applied for the vehicle trip generation calculation.

[3] San Diego Association of Governments, Brief Guide of Vehicular Trip Generation Rates for the San Diego Region, September, 2002

Table 2 –Ancillary Uses and LA Clippers Employees						
Land Use	Size		ITE Land Use (10th Edition)			
			#	Description	Weekday Daily Avg Rate	Weekend Daily Avg Rate
LA Clippers Management and Operations Employees (Office)	275	Emp	N/A	N/A	N/A	N/A
LA Clippers Basketball Employees (Team Practice & Training Facility)	54	Emp	N/A	N/A	N/A	N/A
Sports Medicine Clinic	25,000	SF	630	Clinic	30.18	N/A
Community Space	15,000	SF	495	Recreational Community Center	28.82	N/A
Full-Service Restaurant/Bar	7,000	SF	931	Quality Restaurant	83.84	90.04
Full-Service Restaurant/Lounge	8,000	SF	931	Quality Restaurant	83.84	90.04
Coffee Shop	5,000	SF	930	Fast Casual Restaurant	315.17	318.62
Quick-Service Restaurant	4,000	SF	930	Fast Casual Restaurant	315.17	318.62
LA Clippers Team Store	7,000	SF	SANDAG	Specialty Retail	40.00	40.00
Other General Retail & Service	17,000	SF	SANDAG	Specialty Retail	40.00	40.00
Hotel	150	RM	312	Business Hotel	4.02	5.79

Source: AECOM 2018

Effects of IBEC TDM Program on Vehicle Trip Generation

The effects of the IBEC TDM Program on vehicle trip generation for the IBEC Project were estimated by considering changes in transportation mode shares, average vehicle occupancy and increased transit use resulting from implementation of the IBEC TDM Program. The effectiveness of the IBEC TDM Program is demonstrated in this analysis through comparison of trip generation estimates for two scenarios: IBEC Project Without IBEC TDM Program scenario and IBEC Project With TDM Program scenario. A summary of the assumptions used for the vehicle trip generation estimates for each scenario is discussed below.

IBEC Project Without IBEC TDM Program Scenario

The following summary describes transportation mode share splits and average vehicle occupancy applied to the trip generation estimates for the IBEC Project Without IBEC TDM Program scenario.

Mode Share Splits

Estimated mode share splits and average vehicle occupancy for the IBEC Project Without TDM Program scenario were based on a report produced by the Southern California Association of Governments (SCAG)[4], which provides a variety of demographic, economic, education, housing and transportation information for the County of Los Angeles, and on a survey of LA Clippers basketball game attendees at the Staples Center. Additional adjustments to the mode share splits and vehicle occupancy were applied to account for the unique transportation characteristics of the IBEC Project Site location.

For the IBEC Project Without IBEC TDM Program scenario, employees and attendees are expected to travel to the IBEC Project in one of the following six ways, based on the transportation characteristics surrounding the Project Site:

- Automobile
- Transit-Rail
- Transit-Public Bus
- Shared Mobility (Uber, Lyft, Taxi, etc.)
- Walk
- Bike

The surrounding transportation characteristics at the IBEC Project Site include the following:

***LA Metro Rail Station and Bus Rapid Transit (BRT) Stop*:**
LA Metro's existing and planned fixed guideway network includes several transit lines and stops that would provide access to the IBEC Project Site.

[4] Southern California Association of Government, Profile of Los Angeles County May, 2017

The ***Metro Green Line***, a 20-mile light rail line with 14 stations, provides service from Norwalk to Redondo Beach. Most of the Green Line stations provide ample parking capacity for riders, and offer a combination of bike lockers or bike racks for cyclists as well. The closest Green Line station to the IBEC Project Site is the Hawthorne/Lennox Station, which is approximately 0.8 mile to the southwest.

The ***Bus Rapid Transit (BRT) Line 740***, a 12-mile express bus line with 18 stop locations, provides service from Redondo Beach/Torrance to the neighborhood of Crenshaw in South Los Angeles. This BRT currently operates at an approximate frequency of 15 minutes during the weekday and 30 minutes during the weekend. The closest rapid stop to the IBEC Project Site is the Hawthorne/Century stop, which is approximately 0.5 miles west of the Project Site.

Future transportation network improvement includes the ***LA Metro Crenshaw/LAX project***. The LA Metro Crenshaw/LAX project is an 8.5-mile light rail line between the Metro Green Line and Exposition Line serving the cities of Los Angeles, Inglewood and El Segundo and is planned to be open in 2019. Three stations associated with the Metro Crenshaw/LAX Line are planned in the City of Inglewood: the Downtown Inglewood Station located approximately 1.6 miles to the north of the IBEC Project Site, the Westchester/Veterans Station located approximately 2 miles northwest of the Project Site, and the Fairview Heights station located approximately 2 miles north of the Project Site. Once completed, the Crenshaw/LAX Line and the existing Green Line (with operational updates) will both stop at the future Airport Metro connector (AMC) 96th Street Transit Station which is located approximately 2.0 miles west of the Project Site. This station is also planned to connect to the proposed future automated people mover (APM) which is currently under the final design and construction phase and will be operated by the Los Angeles World Airports (LAWA). The APM and the AMC 96th Street Transit Station are anticipated to open in 2023, before the IBEC Project becomes operational.

However, without shuttle service to and from the IBEC Project Site, it is unlikely that the riders would take advantage of the existing and future transit rail services, since riders would need to take the BRT from the stations to the intersection of Century Boulevard and Hawthorne Boulevard BRT stop and walk approximately 0.5 miles to the arena.

Due to the lack of adequate infrastructure, walking and bicycling is currently not a popular alternative to transit or other means of transportation in the vicinity of the IBEC Project Site. The streets that surround the Project Site lack pedestrian friendly sidewalks that would encourage walking. There currently is lack of bicycle infrastructure such as bicycle stations or routes in the vicinity of the Project Site which would encourage cycling as a means of transportation. Based on the City of Inglewood's General Plan, only a portion of Prairie Avenue (north of Century Boulevard) and Century Avenue (east of Prairie Avenue) is included in the Bike Route Plan.

The transportation mode shares for the IBEC Project Without IBEC TDM Program scenario were developed based on survey data and the transportation characteristics in the Project Site vicinity. Table 3 provides a summary of the transportation mode shares for the IBEC Without IBEC TDM Program

scenario. As shown on Table 3, 95% of employees and 89% of attendees are assumed to drive to the Project Site and 5% of employees and 11% of attendees are assumed to use other modes of transportation.

Table 3 –IBEC Project Without IBEC TDM Program Transportation Mode Shares

Modes of Transportation	Employees	Attendees
Drive % (Auto)	95%	89%
Other Modes of Transportation		
Transit-Rail %	0%	0%
Transit - Public Bus %	3%	1%
Shared Mobility (TNC - Uber, Lyft, etc.) %	1%	10%
Walk %	1%	0%
Bike %	0%	0%
Total of Other Modes of Transportation Percentage	5%	11%
Total Mode Share Percentage	100%	100%

Source: AECOM 2018

Employee Modes of Transportation

Employee transportation mode splits are based on information about travel behavior and patterns collected and published by the Southern California Association of Governments (SCAG) for the County of Los Angeles.[5] As indicated in the SCAG profile for journey to work for residents, 75% drive, 13% carpool, 7% utilize public transit and 5% walk or bike. Due to the location of the IBEC Project, these percentages were adjusted as follows:

- Automobile: The automobile trips were adjusted from the SCAG published mode share percentage based on the usage of the other modes of transportation.
- Transit-Rail: Zero percent of the employees were assumed to ride rail to the IBEC Project Site. The Project Site is located approximately 0.8 mile from the nearest Metro Rail Station (Metro Green Line at the Hawthorne/Lennox Station). With this distance and without a shuttle service from the station to Project Site, it is assumed that zero percent of the employees would utilize rail.
- Transit-Public Bus: Given the existing bus service near the proposed site, approximately three percent of employees (40 employees for a home basketball event) are assumed to use the bus.

[5] Southern California Association of Governments, Profile of Los Angeles County, May 2017.

- Shared Mobility (TNC - Uber, Lyft, Taxi, etc.): This mode is not yet accounted for in the SCAG Profile. However, due to the popularity of Transportation Network Companies (TNC) use, one percent of employees are conservatively assumed to use this mode.
- Walk: The project area does not have a user-friendly walking infrastructure. However, based on the local hire program, approximately one percent (13 employees for a home basketball event) of employees are assumed to walk to work.
- Bike: Zero percent of the employees are assumed to bike to work since the project area does not have a user-friendly biking infrastructure.

Attendee Modes of Transportation

Attendee transportation mode splits are based on a survey of LA Clippers basketball game attendees at the Staples Center. As indicated in the survey, 80% of attendees drive, 11% ride the rail, 2% ride the public bus, 4% utilize shared mobility, 3% walk and 0% bike. Due to the location of the IBEC Project Site, these percentages were adjusted as follows:

- Automobiles: Automobile trips were adjusted from the survey transportation mode share percentage based on the usage of the other modes of transportation.
- Transit-Rail: Zero percent of the attendees were assumed to ride rail to the IBEC Project Site. The Project Site is located approximately 0.8 mile from the nearest Metro Rail Station (Metro Green Line at the Hawthorne/Lennox Station). With this distance and without a shuttle service from the station to Project Site, it is assumed that zero percent of the attendees would utilize rail.
- Transit-Public Bus: Given the existing bus service near the IBEC Project Site, approximately one percent of attendees are assumed to use the bus.
- Shared Mobility (Uber, Lyft, Taxi, etc.): Shared mobility mode share percentage was adjusted from the survey to ten percent due to the project's inclusion of a staging area for shared mobility services.
- Walk: Zero percent of the attendees are assumed to walk to the Project Site since the project area does not have a user-friendly walking infrastructure.
- Bike: Zero percent of the attendees are assumed to bike to the Project Site since the project area does not have a user-friendly biking infrastructure.

Average Vehicle Occupancy

Under the IBEC Project Without IBEC TDM Program scenario, average vehicle occupancy for automobiles and shared mobility is assumed to be 1.5 employees per vehicle for both weekday and weekends and 2.3 attendees per vehicle during the weekday and 2.5 during the weekend, as shown in Table 4. The weekend average vehicle occupancy for the attendees is based on an analysis conducted

for the IBEC Project by Walker Consultants[6] and weekday average vehicle occupancy is based on the parking study with adjustments based on the assumption that less carpooling occurs during the weekday due to many of the attendees originating from work. The average vehicle occupancy for employees is based on the average vehicle occupancy used in the analysis of a similar large sports and entertainment venue located in Los Angeles County.[7]

Table 4 – IBEC Project Without IBEC TDM Program Average Vehicle Occupancy

Modes of Transportation	Weekday		Weekend	
	Employees	Attendees	Employees	Attendees
Auto	1.5	2.3	1.5	2.5
Shared Mobility (TNC - Uber, Lyft, etc.)	1.5	2.3	1.5	2.5

Source: AECOM 2018

IBEC Project With IBEC TDM Program Scenario

The following provides a summary of the transportation mode share splits and average vehicle occupancy that was applied to the trip generation estimates for the IBEC Project With IBEC TDM Program scenario. The IBEC TDM Program provides transportation services, monetary incentives and project design features that encourage and support the use by employees, event attendees and customers of alternative modes of transportation and the reduction of vehicle trips, including by increasing average vehicle occupancy. The program is designed to be consistent with the requirements and achieve the reduction in vehicle trips set forth in AB 987. In summary, the TDM Program includes the following measures:

- TDM-1: Encourage Alternative Modes of Transportation (Rail, Public Bus and Vanpool)
- TDM-2: Event-Day Shuttle Services
- TDM-3: Encourage Carpools and Zero-Emission Vehicles
- TDM-4: Encourage Active Transportation
- TDM-5: Employee Vanpool Program
- TDM-6: Park-N-Ride Program
- TDM-7: Information Services
- TDM-8: Reduced On-Site Parking Demand
- TDM-9: Event-Day Local Microtransit Service

A more detailed description of the IBEC TDM Program is provided in Attachment C to the AB 987 application. The measures included in the IBEC TDM Program are subject to further refinement and revision, and will be coordinated with the City of Inglewood at the time of project approval, with

[6] Walker Associates, 2018

[7] Fehr & Peers, Addendum to the Environmental Impact Report for the Los Angeles Memorial Sports Arena Redevelopment Project, Appendix K, Vehicle Miles Travelled Memorandum, August 2015

achievement of the 15 % reduction in vehicle trips verified to the City of Inglewood and Office of Planning and Research no later than January 1, 2030.

Mode Share Splits for IBEC Arena Events

Estimated mode share splits and average vehicle occupancy for the IBEC Project With IBEC TDM Program scenario are based on existing and funded and under construction future transportation network improvements in the vicinity of the Project Site (as discussed in the previous section), location information from basketball ticket purchasers to identify distribution patterns, and knowledge of shared mobility use at other local venues such as the Hollywood Bowl located in the County of Los Angeles.

Ticket sales data provided by the LA Clippers was used to identify spatial distribution patterns and determine potential site access opportunities. 59% of the tickets were sold to attendees within Los Angeles County, 9% within Orange County, 2% in Riverside County, 3% in San Bernardino County, 2% in Ventura County and 25% outside the Southern California region. The following provides a summary of the spatial distribution of the ticket sales data:

- 13% of tickets are sold to season ticket holders who are within 2 transfers on the Metro Bus Rapid Transit and rail systems from the site
- 18% of the tickets are sold to season ticket holders who are within 30-45 minutes of drive of the site during the PM peak period, providing opportunities for provision of minibuses/microtransit services
- 48% of the tickets are sold to season ticket holders who are within 50-75-minute drive of the site during the PM peak hour, providing opportunities for a park-n-ride program.

The transportation mode share percentages for the IBEC Project With IBEC TDM Program scenario were developed based on the data above and the measures included in the IBEC TDM Program. **Table 5** provides a summary of the transportation mode shares under the IBEC Project With IBEC TDM Program scenario. As shown on **Table 5**, 66% of employees and attendees are assumed to drive to the IBEC Project and 34% are assumed to use other modes of transportation during large events such as LA Clippers home games and concert events. During the smaller-scaled events with fewer attendees (*e.g.*, family shows and other non-LA Clippers sporting events), 66% of employees and 82% of attendees are assumed to drive to the IBEC Project and 34% of employees and 18% of attendees are assumed to use other modes of transportation.

In comparing the mode share percentages for the IBEC Project Without IBEC TDM Program scenario and the IBEC Project With IBEC TDM Program scenario, drive percentage for employees decreased from 95% to 66% during all IBEC arena events and other modes of transportation increased from 5% to 34% due to the implementation of the IBEC TDM Program. A similar trend is projected for the attendees, and the drive percentage decreased from 89 % to 66 % during basketball games and concerts and 82%

during other events. For other modes of transportation for the attendees the transportation mode share percentage increased from 11% to 34% during basketball games and concerts and 18% during other events.

Table 5 – IBEC Project With IBEC TDM Program Transportation Mode Shares

Modes of Transportation	Basketball Games/ Concerts		Other Events	
	Employees	Attendees	Employees	Attendees
Drive % (Auto)	66%	66%	66%	82%
Other Modes of Transportation				
Transit - Rail %	10%	10%	10%	5%
Transit - Public Bus %	10%	2%	10%	2%
Charter Coaches (Park-N-Ride) %	0%	11%	0%	0%
Vanpool (Employees) %	5%	0%	5%	0%
Minibuses/Microtransit %	5%	1%	5%	1%
Shared Mobility (TNC - Uber, Lyft, etc.) %	1%	10%	1%	10%
Walk %	2%	0%	2%	0%
Bike %	1%	0%	1%	0%
Total of Other Modes of Transportation	34%	34%	34%	18%
Total Mode Share Percentage	100%	100%	100%	100%

Source: AECOM 2018

The IBEC TDM Program provides incentives and promotes other modes of transportation that would decrease automobile vehicle trips. The TDM numbers below refer to the TDM program that would be applied to each transportation mode above. As indicated previously, a complete description of the IBEC TDM Program is provided in Attachment C of the AB 987 application.

The IBEC TDM Program would increase the following modes of transportation:

Employees/Attendees

- Transit – Rail: TDM 1, 2, 7
- Transit – Public Bus: TDM 1, 7
- Charter Coaches: TDM 3, 6, 7, 8
- Vanpool: TDM 3, 5, 7
- Minibuses/Microtransit – TDM 3, 7, 8, 9
- Walk – TDM 4, 7
- Bike – TDM 4, 7

Average Vehicle Occupancy

In the IBEC Project With IBEC TDM Program scenario, carpooling would be encouraged (TDM 3), therefore an increase in the average vehicle occupancy was applied for the attendees to 2.7 attendees per vehicle during the weekday and 3.0 attendees per vehicle during the weekend. These average vehicle occupancies were developed based on the average vehicle occupancy used in the analysis of a similar large sports and entertainment venue located in Los Angeles County.[8] Table 6 provides a summary of the average vehicle occupancy assumed under the IBEC Project With TDM Program scenario.

Table 6 – IBEC Project With IBEC TDM Program Average Vehicle Occupancy

Modes of Transportation	Weekday		Weekend	
	Employees	Attendees	Employees	Attendees
Drive (Auto)	1.5	2.7	1.5	3.0
Shared Mobility (TNC - Uber, Lyft, etc.)	1.5	2.7	1.5	3.0

Source: AECOM 2018

Increased Transit Use for Ancillary Uses

The IBEC TDM Program Project includes design features that promote alternative travel modes and provides amenities to customers and employees that would further reduce vehicle trips associated with the ancillary uses during non-event days and times.

[8] Fehr & Peers, Addendum to the Environmental Impact Report for the Los Angeles Memorial Sports Arena Redevelopment Project, Appendix K, Vehicle Miles Travelled Memorandum, August 2015

Pursuant to guidelines issued by the City of Los Angeles to determine the effectiveness of certain project features or programs,[9] inclusion of the following features and amenities qualify a project for an up to 10% reduction in vehicle trips:

- On-site transit information kiosk and/or on-site transit pass sales
- On-site facilities such as ATM machines, cafeteria, convenience shopping, showers, and changing rooms
- Pricing for single-occupancy auto parking
- Publicly accessible car share or bike share station
- Bicycle racks or amenities for people travelling by bicycle
- Provision of on-site concierge service to facilitate use of transit, taxis, or private shuttles by employees
- Provision of shuttle service for employees and/or customers

As indicated in the IBEC TDM Program, the IBEC Project would provide majority of these features and amenities to the ancillary uses on non-event times (refer to TDM 1, 3, 4, 5, and 7, above). This analysis adopts a conservative approach regarding trip reduction and applies a 5% reduction to the vehicle trips generated by ancillary uses on non-event days and times.

Project Vehicle Trip Comparison

Based on the assumptions discussed in the previous sections, the resulting vehicle trip generation for the IBEC Project Without IBEC TDM Program scenario and the IBEC Project With IBEC TDM Program scenario is summarized in Table 7 below. The table provides the vehicle trip generation for the arena and each of the ancillary uses during weekdays and weekends.

[9] City of Los Angeles, Transportation Impact Study Guidelines, December 2016.

Table 7 – IBEC Project Vehicle Trip Generation Summary

IBEC Project Without IBEC TDM Program

IBEC Project Component	Size	Estimated Annual Trips				
		Weekday		Weekend		Total
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	91,364	0	57,260	0	148,624
Arena (attendees)	Varies	1,075,784	0	642,664	0	1,718,448
LA Clippers Office	275 EMP	47,084	33,834	0	0	80,918
LA Clippers Practice & Training Facility	54 EMP	9,247	4,861	0	0	14,108
Sports Medicine Clinic	25 TSF	100,922	72,523	0	0	173,445
Community Space	15 TSF	39,426	28,013	0	0	67,439
Full-Service Restaurant/Bar	7 TSF	47,800	49,058	30,282	6,249	133,389
Full-Service Restaurant/Lounge	8 TSF	54,629	56,067	34,607	7,141	152,444
Coffee Shop	5 TSF	139,047	131,728	88,085	16,778	375,638
Quick-Service Restaurant (no drive thru)	4 TSF	102,680	105,383	65,047	13,422	286,532
LA Clippers Team Store	7 TSF	13,279	14,152	9,326	1,998	38,755
Other General Retail & Service	17 TSF	32,248	34,370	22,648	4,853	94,119
Hotel (limited service no restaurant)	150 RM	91,656	65,124	54,873	7,839	219,492
	Total	**1,845,166**	**595,113**	**1,004,792**	**58,280**	**3,503,351**

IBEC Project With IBEC TDM Program

IBEC Project Component	Size	Estimated Annual Trips				
		Weekday		Weekend		Total
		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	65,996	0	41,430	0	107,426
Arena (attendees)	Varies	788,554	0	458,978	0	1,247,532
LA Clippers Office	275 EMP	44,729	32,143	0	0	76,872
LA Clippers Practice & Training Facility	54 EMP	8,785	4,618	0	0	13,403
Sports Medicine Clinic	25 TSF	100,922	68,897	0	0	169,819

Table 7 – IBEC Project Vehicle Trip Generation Summary						
IBEC Project	Size	Estimated Annual Trips				
		Weekday		Weekend		Total
		Days with Events	Days without Events	Days with Events	Days without Events	
Community Space	15 TSF	39,426	26,612	0	0	66,038
Full-Service Restaurant/Bar	7 TSF	48,863	46,605	30,954	5,937	132,359
Full-Service Restaurant/Lounge	8 TSF	55,843	53,264	35,376	6,784	151,267
Coffee Shop	5 TSF	141,364	125,142	89,553	15,939	371,998
Quick-Service Restaurant (no drive thru)	4 TSF	104,962	100,114	66,493	12,751	284,320
LA Clippers Team Store	7 TSF	13,611	13,444	9,559	1,898	38,512
Other General Retail & Service	17 TSF	33,054	32,652	23,214	4,610	93,530
Hotel (limited service; no restaurant)	150 RM	91,656	65,124	54,873	7,839	219,492
	Total	**1,537,765**	**568,615**	**810,430**	**55,758**	**2,972,568**

Source: AECOM 2018

Annual vehicle trip generation for the IBEC Project With IBEC TDM Program scenario was analyzed and compared against the IBEC Project Without IBEC TDM Program scenario. As shown in Table 8, the IBEC Project Without IBEC TDM Program scenario would generate approximately 3,503,351 annual vehicle trips; the IBEC Project With TDM Program scenario would generate approximately 2,972,568 vehicle trips resulting in a 15.151% reduction in vehicle trips achieved as a result of implementation of the IBEC TDM Program.

Table 8: IBEC TDM Program Vehicle Trip Reduction					
Scenario	Estimated Annual Vehicle Trips				
	Weekday		Weekend		Total
	Days With Events	Days Without Events	Days With Events	Days Without Events	
Project Without TDM	1,845,166	595,113	1,004,792	58,280	3,503,351
Project With TDM	1,537,765	568,615	810,430	55,758	2,972,568
Annual Vehicle Trips Reduced	-307,401	-26,498	-194,362	-2,522	-530,783
				% Vehicle Trips Reduced =	**-15.151%**

Source: AECOM 2018

Conclusion

This analysis of the vehicle trip generation for the IBEC Project demonstrates that the implementation of the IBEC TDM Program would generate at least 15 percent fewer annual vehicle trips when measured against the IBEC Project without implementation of a transportation demand management program. The IBEC TDM Program includes strategies, incentives and tools that provide opportunities for event attendees and employees to choose other modes of transportation besides automobile. As discussed in more detail above, the IBEC TDM Program includes the following measures to encourage and provide incentives for the use other modes of transportation:

- TDM 1 – Encourage Alternative Modes of Transportation (Rail, Public Bus, and Vanpool)
- TDM 2 – Event-Day Dedicated Shuttle Services
- TDM 3 – Encourage Carpools and Zero-Emission Vehicles
- TDM 4 – Encourage Active Transportation
- TDM 5 – Employee Vanpool Program
- TDM 6 – Park-n-Ride Program
- TDM 7 – Information Services
- TDM 8 – Reduce On-Site Parking Demand
- TDM 9 – Event-Day Local Microtransit Service

As further detailed in Attachment C, the IBEC Project provides several design features in support of other modes of transportation. The IBEC Project design features include the following:

- A dedicated staging area for charter coach bus, minibus/microtransit and TNC (Uber, Lyft, Taxi, etc.) within the parking structure on the Project Site.
- A dedicated shuttle drop off and pick up area that is conveniently and safely located adjacent to the arena.
- Improvements to bus stop facilities.
- Dedicated electrical vehicle spaces with vehicle charging devices in excess of minimum requirements.
- Dedicated parking for car-share vehicles in excess of applicable requirements.
- Dedicated bike parking spaces in excess of minimum requirements as well as a bike valet program to accommodate additional bike parking.

As demonstrated by this analysis, implementation of the combination of the measures and strategies included in the IBEC TDM Program would meet the vehicle trip reduction requirements of AB 987.

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Attachment E

ARB Executive Order

State of California
AIR RESOURCES BOARD

Executive Order G- 16- 066

Southern California Association of Governments' (SCAG)
2016 Sustainable Communities Strategy (SCS)
ARB Acceptance of GHG Quantification Determination

WHEREAS, SB 375 (Steinberg, Chapter 728, Statutes of 2008), also known as the Sustainable Communities and Climate Protection Act, aims to reduce greenhouse gas (GHG) emissions from passenger vehicle travel through improved transportation and land use planning at the regional scale;

WHEREAS, SB 375 requires each of the State's 18 federally-designated Metropolitan Planning Organizations (MPO), including the Southern California Association of Governments (SCAG), to develop a Sustainable Communities Strategy (SCS), or an Alternative Planning Strategy that meets the regional GHG emissions reduction targets for passenger vehicles set by the Air Resources Board (ARB or Board);

WHEREAS, on September 23, 2010, the Board set targets for the SCAG region of 8 percent per capita reduction by 2020, and 13 percent per capita reduction by 2035 relative to 2005 levels;

WHEREAS, on June 4, 2012, ARB accepted SCAG's quantification of greenhouse gas emissions for its first SCS, adopted by the SCAG Regional Council on April 4, 2012;

WHEREAS, in preparation for its 2016 SCS, known as *The 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy: A Plan for Mobility, Accessibility, Sustainability and a High Quality of Life*, SCAG staff engaged the public by holding public workshops and community meetings between March 2015 and January 2016;

WHEREAS, in December 2015, SCAG published its draft 2016 RTP/SCS, which was available for public review through February 1, 2016;

WHEREAS, on April 7, 2016, SCAG adopted the final 2016 RTP/SCS with a determination that the SCS would achieve the region's GHG targets with an 8 percent per capita reduction by 2020 and an 18 percent per capita reduction by 2035;

WHEREAS, SCAG submitted the final 2016 SCS to ARB on April 8, 2016, as required by California Government Code section 65080, subdivision (b)(2)(J)(ii);

WHEREAS, ARB staff performed a technical evaluation of the 2016 SCS based on ARB's technical methodology for evaluating an SCS (published in July 2011);

WHEREAS, ARB staff's evaluation showed SCAG used technical methodologies that would accurately quantify GHG reductions from the 2016 SCS;

WHEREAS, ARB staff's evaluation showed SCAG's 2016 SCS, if implemented, would meet the GHG targets that the Board established for the region for 2020 and 2035;

WHEREAS, ARB staff's technical review of SCAG's GHG reduction determination is included in Attachment A, "Technical Evaluation of the Greenhouse Gas Emissions Reduction Quantification for the Southern California Association of Governments' SB 375 Sustainable Communities Strategy" dated June 2016;

WHEREAS, California Government Code section 65080, subdivision (b)(2)(J)(ii) calls for ARB to accept or reject the MPO's determination that the strategy submitted would, if implemented, achieve the GHG emission reduction targets established by the Board;

WHEREAS, the California Health and Safety Code sections 39515 and 39516 delegate to the Board's Executive Officer the authority to act on behalf of the Board in this manner;

NOW, THEREFORE, BE IT RESOLVED that under California Government Code section 65080, subsection (b)(2)(J)(ii), the Executive Officer herby accepts SCAG's determination that the SCS adopted by SCAG's Regional Council on April 7, 2016, would, if implemented, achieve the 2020 and 2035 GHG emission reduction targets established by ARB.

NOW, THEREFORE, IT IS ORDERED that ARB staff is directed to forward this executive order to the SCAG Executive Director.

Executed at Sacramento, California this 28th day of June 2016.

Richard W. Corey
Executive Officer

Attachment A: Technical Evaluation of the Greenhouse Gas Emissions Reduction Quantification for the Southern California Association of Governments' SB 375 Sustainable Communities Strategy, June 2016.

Attachment F

Letter from Project Sponsor and City of Inglewood

CITY OF INGLEWOOD

Office of the City Manager

Inglewood
All-America City
2009

October 24, 2018

Brandt A. Vaughan, Manager
Murphy's Bowl, LLC
P.O. Box 1558
Bellevue, WA 98009-1558

Re: Acknowledgement of Murphy's Bowl, LLC's (LA Clippers) Intent to Seek Certification Under Assembly Bill 987

Dear Mr. Vaughan:

The City of Inglewood (the "City"), as lead agency for the proposed Inglewood Basketball and Entertainment Center project (the "Project") in Inglewood, California, acknowledges that it has been notified of Murphy's Bowl, LLC's intent to apply for the certification of the Project for CEQA streamlining under Assembly Bill 987 ("AB 987"), Public Resources Code Section 21168.6.8, as effective on January 1, 2019.

The City further acknowledges that, as part of the certification process, Murphy's Bowl, LLC is obligated to enter into an agreement with the City establishing the requirements of Public Resources Code sections 21168.6.8(b)(5), (6), and (7), and that the certification under AB 987 entitles the Project to streamlined environmental review and requires the lead agency to prepare an administrative record in accordance with the requirements of Public Resources Code section 21168.6.8(g).

As the City Manager, I am authorized to make the above acknowledgement on behalf of the City.

Sincerely,

Artie Fields
City Manager

October 22, 2018

Brandt A. Vaughan, Manager
Murphy's Bowl LLC
P.O. Box 1558
Bellevue, WA 98009-1558

Artie Fields, City Manager
City of Inglewood
1 Manchester Boulevard
Inglewood, CA 90301

Subject: Inglewood Basketball and Entertainment Center
AB 987 Application for Certification for CEQA Streamlining
Acknowledgement of Obligations under Public Resources Code Sections 21168.6.8(b)(5), (6), and (7)

Dear Mr. Fields:

I write on behalf of Murphy's Bowl LLC (the "Applicant"), which proposes to develop that certain Inglewood Basketball and Entertainment Center project located on approximately 28 acres in the vicinity of the intersection of West Century Boulevard and South Prairie Avenue in Inglewood, California (the "Project").

This letter confirms the Applicant's acknowledgment and agreement, in connection with the City of Inglewood's (the "City's") review of the Project, in its capacity as the lead agency, with respect to the obligations described in the following paragraphs, all of which are conditions of qualifying for the Project's certification for streamlined California Environmental Quality Act ("CEQA") review by the judiciary under Assembly Bill 987 ("AB 987").

Accordingly, and as required by Public Resources Code section 21168.6.8(b)(5), by this letter the Applicant is entering into a binding and enforceable agreement that all mitigation measures required pursuant to CEQA and any other environmental measures required by Public Resources Code section 21168.6.8 to certify the Project under AB 987 shall be made conditions of approval of the Project, that these conditions will be fully enforceable by the City's Planning Division or other agency designated by the City, that all mitigation measures required pursuant to CEQA and any other environmental measures required to certify the Project under AB 987 will be monitored and enforced by the City for the life of the obligation, and that Applicant will submit to the City an annual status report on the implementation of the mitigation measures required pursuant to CEQA and any other environmental measures required to certify the Project under AB 987.

As required by Public Resources Code section 21168.6.8(b)(6), the Applicant agrees to pay any additional costs incurred by the courts in hearing and deciding any case subject to Public

Resources Code section 21168.6.8, including payment of the costs for the appointment of a special master if deemed appropriate by the court, in a form and manner specified by the Judicial Council, as provided in the Rules of Court adopted by the Judicial Council pursuant to AB 987.

As required by Public Resources Code section 21168.6.8(b)(7), the Applicant agrees to pay the costs of preparing the record of proceedings for the Project, concurrent with review and consideration of the Project pursuant to CEQA, in a form and manner specified by the City.

In order to comply with CEQA and give the public and decision-makers the opportunity to be fully aware of the environmental consequences of the Project, the parties to this letter agreement acknowledge that the City has no obligation to approve, and the Applicant has no obligation to develop, the Project unless and until the parties have negotiated, executed and delivered mutually acceptable agreements based upon information produced from the CEQA environmental review process and any other public review and hearing processes, subject to all applicable governmental approvals. The City retains the absolute, sole discretion to: (1) modify the Project as the City may, in its sole discretion, deem necessary to comply with CEQA; (2) select other feasible alternatives and/or impose mitigation measures to avoid or reduce significant environmental impacts; (3) balance the benefits of the Project against any significant environmental impacts prior to taking final actions, if such significant impacts cannot otherwise be avoided; and/or (4) determine not to proceed with the Project.

Murphy's Bowl LLC,
a Delaware limited liability company

By: Brandt Vaughan
Its: Manager

Acknowledged and Agreed to by:

Artie Fields
City Manager

Attachment G

IBEC Project GHG Analysis

ATTACHMENT G
GREENHOUSE GAS ANALYSIS

Prepared by:

AECOM
401 West A Street, Suite 1200
San Diego, California 92101

October 31, 2018

TABLE OF CONTENTS

Section **Page**

SECTION 1 INTRODUCTION 1
1.1 Project Description 1
1.1.1. Alternate Prairie Access Variant 2
1.1.2 West Century Boulevard Pedestrian Bridge Variant 3
1.1.3 Existing Conditions 3
1.2 GHG Emissions Background 3

SECTION 2 METHODOLOGY AND RESULTS 5
2.1 Baseline Conditions Methodology 6
2.1.1 Energy Sources 8
2.1.2 Mobile Sources 10
2.1.3 Solid Waste 12
2.1.4 Water and Wastewater 13
2.1.5 Area Sources 13
2.1.6 Baseline Conditions Results 14
2.2 IBEC Project Operational Emissions Methodology 16
2.2.1 Energy 17
2.2.2 Mobile Sources 18
2.2.3 Waste 19
2.2.4 Water and Wastewater 19
2.2.5 Area Sources 20
2.2.6 Stationary Sources 20
2.2.7 IBEC Project Operational Emissions Results 20
2.3 IBEC Project Construction Emissions 21
2.3.1 Construction 21
2.3.2 Construction Results 22

SECTION 3 GHG EMISSIONS RESULTS 23
3.1 Emission Results 23
3.1.1 IBEC Project Emission Results 23
3.1.2 IBEC Project Variants Emission Results 26
3.2 Net New Project Emissions and AB 987 Requirements 29
3.2.1 IBEC Project Net New Emissions 30
3.2.2 IBEC Project Variants Net New Emissions 31
3.3 AB 987 Summary of Reductions 31

3.4 Measures for Offsetting Net Increase GHG Emissions 33
3.4.1 LEED Gold Certification 33
3.4.2 IBEC TDM Program 33
3.4.3 Potential Co-Benefits from NO_x and $PM_{2.5}$ Reductions per AB 987 34
3.4.4 Carbon Credits 34

SECTION 4 REFERENCES 36

APPENDIX A. CalEEMod and Greenhouse Gas Modeling Data

LIST OF TABLES

Table **Page**

1 IBEC Project Land Uses 2
2 Existing On-Site Buildings Operational Emissions 14
3 Existing LA Clippers Facilities (LA Clippers Team Offices and LA Clippers Training Center) 15
4 Alternate Future Use of LA Clippers Team Offices 15
5 Existing NBA Games 15
6 Market-Shifted Events 16
7 Baseline Emissions Summary 16
8 IBEC Project Operational GHG Emissions – 2024 21
9 Construction-Related GHG Emissions 22
10 IBEC Project - Net GHG Emissions by Year without GHG Reduction Measures 24
11 IBEC Project - Net GHG Emissions by Year with GHG Reduction Measures 25
12 IBEC Project Variants - Net GHG Emissions by Year without GHG Reduction Measures 27
13 IBEC Project Variants - Net GHG Emissions by Year with GHG Reduction Measures 28
14 IBEC Project Net New Emissions Summary 30
15 IBEC Project Variants Project Net New Emissions Summary 31
16 IBEC Project Local Direct Measures Emissions Reductions and Offsets Summary 32
17 IBEC Project Variants Local Direct Emissions Reductions and Offsets Summary 33

SECTION 1
INTRODUCTION

This memorandum, Attachment G of the AB 987 application for the proposed Inglewood Basketball and Entertainment Center Project (IBEC Project), provides a summary of estimated greenhouse gas (GHG) emissions for the IBEC Project. It has been prepared to demonstrate compliance with the AB 987 requirements regarding GHG emissions.

1.1 PROJECT DESCRIPTION

The project sponsor proposes the construction of a new basketball and entertainment center and related development in the City of Inglewood, California to serve as the new home of the LA Clippers. The proposed IBEC Project includes a new arena, practice and training facility, and office space for the LA Clippers, as well as ancillary development including a sports medicine clinic and retail, restaurant, community space and hotel uses. The multipurpose arena would be used for LA Clippers home basketball games and as a performance venue that could be configured for other events of various size, including concerts, other sporting events, family shows, conferences, and civic and community events.

The LA Clippers currently play their home basketball games at the Staples Center located in downtown Los Angeles. The LA Clippers team offices are also located in downtown Los Angeles, and the LA Clippers Training Center team practice and training facility is located in the Playa Vista neighborhood of Los Angeles. Upon completion of the IBEC Project, all LA Clippers home basketball games would be played at the new arena, and the team offices and practice and athletic training facilities would relocate to the LA Clippers new home. In addition, the proposed IBEC Project includes a sports medicine clinic, community space, and ancillary retail, dining, and hotel uses, as shown in Table 1.

It is expected that the LA Clippers would host up to five preseason games, 41 regular season games, and an average of three postseason games each NBA season. Other events such as concerts, family shows, conventions and corporate or civic events, and non-LA Clippers sporting events would take place in the proposed arena throughout the year.

Table 1. IBEC Project Land Uses

Land Use	Size
Arena	18,000 fixed seats 500 temporary floor seats (approximately 915,000 SF)
LA Clippers Offices	71,000 SF
LA Clippers Team Practice & Training Facility	85,000 SF
Sports Medicine Clinic	25,000 SF
Community Space	15,000 SF
Full-Service Restaurant/Bar	7,000 SF
Full-Service Restaurant/Lounge	8,000 SF
Coffee Shop	5,000 SF
Quick-Service Restaurant	4,000 SF
LA Clippers Team Store	7,000 SF
Other General Retail & Services	17,000 SF
Hotel	150 Rooms

Notes: SF = square feet

In addition to the IBEC Project, two variants are also currently under consideration to allow for flexibility in the development of the project, collectively referred to in this analysis as the IBEC Project Variants and briefly described below.

As required by AB 987, the IBEC Project include implementation the IBEC Transportation Demand Management Program (IBEC TDM Program), a program of measures and strategies designed to achieve a 15% reduction in vehicle trips for the IBEC Project as compared to the IBEC Project absent a transportation demand management program, as further described in the AB 987 application and attachments.

1.1.1. Alternate Prairie Access Variant

The Alternate Prairie Access Variant contemplates the potential acquisition by the project sponsor of two additional parcels adjacent to the proposed IBEC Project Site within the “project area” defined in Public Resources Code Section 21168.6.8(a)(5). The Alternate Prairie Access Variant would allow for a different configuration for vehicular access from South Prairie Avenue and minor alterations to the design of the main pedestrian plaza and the alignment of the arena structure. The Alternate Prairie Access Variant would only be implemented if the two additional parcels included in this variant are made available for sale by the current property owners and are acquired by the project sponsor.

1.1.2 West Century Boulevard Pedestrian Bridge Variant

The West Century Boulevard Pedestrian Bridge Variant would allow for the construction of a second pedestrian bridge, across West Century Boulevard for pedestrian access to the IBEC Project from the Los Angeles Sports and Entertainment District located to the north of West Century Boulevard. The West Century Boulevard Pedestrian Bridge Variant could be incorporated into the development of either the IBEC Project or the Alternate Prairie Access Variant.

Each project variant would include the same number of parking and loading spaces, mechanical equipment, general vehicular circulation, streetscape improvements, and sustainability features as the IBEC Project. The IBEC Project Variants would have the same program and size of development for the proposed buildings as the IBEC Project, and both would involve implementation of the IBEC TDM Program as described in the AB 987 application.

1.1.3 Existing Conditions

The LA Clippers currently play their home basketball games at the Staples Center arena located in downtown Los Angeles. The existing LA Clippers' Team Offices are currently located on Flower Street within two blocks of the Staples Center. The team's current practice and athletic training facilities are known as the LA Clippers Training Center, located in the Playa Vista neighborhood of Los Angeles. Upon completion of the IBEC Project in 2024, all LA Clippers home basketball games and operations would be relocated to the IBEC Project Site.

Most of the parcels that make up the Project Site are currently vacant or underutilized. The six currently developed parcels within the IBEC Project Site that would be redeveloped include a fast-food restaurant, a hotel, a retail store, warehouse and light manufacturing facilities, and a groundwater well and related facilities. The Alternate Prairie Access Variant would include two additional parcels that currently are developed with a single-family home and a three-unit residential use, if made available for sale by the current property owners and are acquired by the project sponsor, resulting in a total of up to eight buildings that may be removed under that variant. .

1.2 GHG EMISSIONS BACKGROUND

Certain gases in the earth's atmosphere, classified as greenhouse gases or GHGs, play a critical role in determining the earth's surface temperature. GHGs are present in the atmosphere naturally, are released by natural and anthropogenic sources, and are formed from secondary reactions taking place in the atmosphere. Natural sources of GHGs include the respiration of humans, animals, and plants; decomposition of organic matter; and evaporation from the oceans. Anthropogenic sources of GHG emissions include the combustion of fossil fuels, waste

treatment, and agricultural processes. The following GHGs are widely accepted as the principal contributors to human-induced global climate change and are relevant to this analysis:

- Carbon dioxide (CO_2)
- Methane (CH_4)
- Nitrous oxide (N_2O)

Emissions of CO_2 are byproducts of fossil fuel combustion. CH_4 is the main component of natural gas, and CH_4 emissions are associated with agricultural practices and landfills. N_2O emissions result from industrial processes, vehicle emissions, and agricultural practices.

Global warming potential (GWP) is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to CO_2. The GWP of a GHG is based on several factors, including the relative effectiveness of a gas to absorb infrared radiation and length of time (i.e., lifetime) that the gas remains in the atmosphere ("atmospheric lifetime"). The reference gas for GWP is CO_2; therefore, CO_2 has a GWP of 1. The other main GHGs that have been attributed to human activity include CH_4, which has a GWP of 28, and N_2O, which has a GWP of 265 (IPCC 2013). For example, 1 ton of CH_4 has the same contribution to the greenhouse effect as approximately 28 tons of CO_2. GHGs with lower emissions rates than CO_2 may still contribute to climate change, because they are more effective at absorbing outgoing infrared radiation than CO_2 (i.e., high GWP). The concept of CO_2-equivalents (CO_2e) is used to account for the different GWP potentials of GHGs to absorb infrared radiation.

SECTION 2
METHODOLOGY AND RESULTS

In order to meet the requirements of AB 987, the following emissions scenarios were analyzed:

- **Baseline operational annual emissions**: Annual operational GHG emissions produced by existing emissions sources and activities against which the proposed project's GHG emissions will be compared;
- **Net new IBEC Project construction and operational annual emissions without GHG Reduction Measures**: Both direct and indirect net new GHG emissions associated with the project's demolition, construction, and operation, including emissions from the proposed project's projected energy use and transportation-related emissions, without accounting for the implementation of the IBEC TDM Program or GHG reduction measures included as project design features and/or features within the Leadership in Energy and Environmental Design (LEED) Gold strategy (collectively, the "GHG Reduction Measures"); and
- **Net new IBEC Project construction and operational emissions with GHG Reduction Measures**: The proposed project's net new emissions after accounting for implementation of the GHG Reduction Measures.

This GHG analysis quantifies emissions for the existing LA Clippers games at the Staples Center, existing uses at the downtown LA Clippers' Team Offices, the team's existing LA Clippers Training Center in Playa Vista, and the portion of non-NBA events anticipated to occur at the IBEC Project arena instead of other venues in the Los Angeles region (i.e., market-shifted non-NBA events) in order to calculate the net GHG emissions associated with the IBEC Project and IBEC Project Variants. This analysis assumes that after the LA Clippers Team Offices relocate to the IBEC Project Site, the vacated existing office space would be used by a different, unknown office tenant in the future.

Construction emissions for the IBEC Project and IBEC Project Variants were estimated for all construction years from 2021 through June 2024. Construction activities would generate GHG emissions associated with heavy-duty construction equipment, material-hauling trucks, and construction worker vehicles.

The operational life of the IBEC Project is assumed to be 30 years, consistent with South Coast Air Quality Management District guidance.[1] Therefore, operational emissions for the IBEC Project and IBEC Project Variants were estimated from July 2024 through 2054. Operational

[1] South Coast Air Quality Management District, *Draft Guidance Document – Interim CEQA Greenhous Gas (GHG) Significance Threshold* at p. 3-16 (Oct. 2008).

emission sources include on-road motor vehicles (mobile), energy (electricity and natural gas), water and wastewater, solid waste, area, and stationary (generators). Mobile source emissions would be generated by vehicle trips from attendees/customers and employees. Energy sources would include both electricity and natural gas consumption. Natural gas combustion for space and water heating is a direct area source of GHG emissions. Indirect emissions sources include emissions from electricity generation at off-site utility providers.

The IBEC Project and IBEC Project Variants would involve the relocation of an existing municipal groundwater well within the Project Site. As the well would be relocated and continue to operate, this analysis does not estimate operational emissions associated with the well.

Consumption of water and generation of wastewater would also result in indirect GHG emissions because of the electricity consumption associated with the off-site conveyance, distribution, and treatment of water and wastewater. Solid waste disposal from operation of the IBEC Project and IBEC Project Variants would result in indirect, off-site GHG emissions. Area-source emissions would be associated with activities such as maintenance of landscaping and grounds. Operation of emergency generators for testing and maintenance would also be a source of direct stationary source emissions.

2.1 BASELINE CONDITIONS METHODOLOGY

Baseline annual emissions include the operational emissions from the existing LA Clippers Team Offices and the LA Clippers Training Center (collectively referred to as the LA Clippers Facilities), LA Clippers games at the Staples Center, market-shifted non-NBA events, and the existing on-site structures that would be removed and replaced with construction of the IBEC Project and IBEC Project Variants.

This analysis assumes that an annual average of 5 pre-season, 41 regular season, and 3 post-season LA Clippers home games would be hosted at the IBEC Project arena. The annual average number of post-season games was based on the average number of post-season home games per NBA team per year. This analysis conservatively assumes that half of the non-NBA game events (e.g., concerts, family shows, non-NBA sports games, etc.) anticipated to occur at the IBEC Project arena would be new events that would not otherwise occur in the Los Angeles area, and half of such events would have otherwise occurred at other venues in the Los Angeles area, but would be relocated at the IBEC Project, the latter of which are referred to as market-shifted events in this analysis.

The existing LA Clippers Facilities consist of the LA Clippers Team Offices, which are located at 1212 South Flower Street, Los Angeles, California, and the existing LA Clippers Training Center, which is located at 6854 South Centinela Avenue in Los Angeles, California. Upon completion of the IBEC Project, these uses would be relocated to the IBEC Project. The existing

Team Offices and LA Clippers Training Center comprise approximately 19,860 and 42,691 sq. ft. of gross floor space, respectively.

Given the unique design and space allocation of the existing LA Clippers Training Center, the potential future use of this facility or site after completion of the IBEC Project is unknown. It would be speculative to assume what type of use might occupy this facility in the future. It is also speculative to create assumptions about what type of renovation or tenant improvements might be necessary to reuse this facility in the future or whether the improvements may be demolished so that a new building or buildings could be constructed on this site. Thus, the existing emissions from operations of the LA Clippers Training Center are included in the baseline conditions without assumptions about the future use of this facility and site.

Given the location of the current LA Clippers Team Offices in downtown Los Angeles, the existence of other tenants within the same building, and general commercial real estate practices, it is reasonable to assume that the office space currently occupied by the LA Clippers Team Offices would be leased to a new office tenant after the LA Clippers relocate to the IBEC Project Site. As it is not possible to predict the employment density or other characteristics of an unknown potential future tenant, California Emissions Estimator Model (CalEEMod) model defaults are used to represent a general office reuse of the current LA Clippers Team Office space in the future. Therefore, this analysis calculates the total emissions associated with the existing LA Clippers Facilities, and then subtracts the emissions calculated for a general office use of the current LA Clippers Team Office space, in order to determine the baseline conditions for the existing LA Clippers Facilities.

Development of the IBEC Project would first require the acquisition of the properties located within the IBEC Project Site, including several parcels that are currently developed with existing on-site uses. Existing buildings within the IBEC Project Site include a 16,806-sq. ft. hotel, 1,118-sq. ft. fast food restaurant, 28,809-sq. ft. light industrial building, and a 1,134-sq. ft. commercial building, and a 6,321-sq. ft. light industrial building. The Alternate Prairie Access Variant would involve two additional parcels developed with a 1,628-sq. ft. three-unit residential building and a 795-sq. ft. single-family residence, if made available for sale by the current property owners and acquired by the project sponsor. All structures on properties acquired for the IBEC Project would be removed prior to start of construction. Emissions associated with the existing buildings that would be removed prior to construction of the IBEC Project or the Alternate Prairie Access Variant were included in the baseline conditions, with the exception of the 6,321-sq. ft. light industrial building that was vacant at the time that the Notice of Preparation for the IBEC Project was published in February 2018.

Operational emissions associated with the 2018 baseline condition include emissions from energy (electricity and natural gas), on-road motor vehicles (mobile), solid waste, water and wastewater, and area sources. Detailed methodology for each emission source is presented below. Existing emissions were estimated using the California Emissions Estimator Model

(CalEEMod), Version 2016.3.2, and off-model spreadsheet calculations using ARB-approved tools, such as EMFAC 2014.

2.1.1 Energy Sources

Electricity and Natural Gas

For electricity-related GHG emissions, emission factors specific to Southern California Edison (SCE) and the Los Angeles Department of Water and Power (LADWP), as appropriate, for the existing building locations, were used for the analysis. The SCE- and LADWP-specific emission factors account for the electricity portfolio mix used to produce power for the existing uses and compliance with the Renewables Portfolio Standard (RPS) for the year 2018.

Existing On-Site Buildings

Baseline operational GHG emissions associated with existing buildings at the IBEC Project Site and IBEC Project Variants sites would include emissions associated with electricity and natural gas consumption. GHG emissions associated with electricity and natural gas consumption were estimated using CalEEMod, Version 2016.3.2 for Title 24 and Non-Title 24 uses. Electricity consumption values within CalEEMod are based on the CEC-sponsored California Commercial End Use Survey (CEUS) and Residential Appliance Saturation Survey studies. The existing on-site buildings were built in the 1920s to the 1980s; thus, the historical energy intensity values provided within CalEEMod were used (historical default values reflect 2005 Title 24 standards). This is considered a conservative adjustment because the existing buildings were built prior to implementation of the 2005 Title 24 standards and thus would have been built to a less stringent energy standard.

The GHG intensity value for SCE in CalEEMod was adjusted to reflect the 2018 SCE GHG intensity value of 524.70 pounds CO_2e per MWh.

Existing LA Clippers Facilities

Baseline operational GHG emissions associated with the existing LA Clippers Facilities include emissions associated with electricity and natural gas consumption. GHG emissions associated with electricity and natural gas consumption for the LA Clippers Team Offices were estimated using CalEEMod, Version 2016.3.2 for Title 24 and Non-Title 24 uses. Energy consumption values for a typical office building within CalEEMod are based on the CEC-sponsored California Commercial End Use Survey (CEUS). The LA Clippers Team Office is located within a building that was built in 1967, thus, the historical default energy intensity values provided within CalEEMod were used (historical default values reflect 2005 Title 24 standards). This is considered a conservative adjustment because the existing Team Offices building was built prior to implementation of the 2005 Title 24 standards and thus would have been built to a less

stringent energy standard. The GHG emissions associated with electricity and natural gas consumption for the existing LA Clippers Training Center were based on actual energy consumption reported in LADWP and Southern California Gas Company energy bills.

As stated above, to account for the potential reuse of the office space currently occupied by the LA Clippers Team Offices, the analysis estimates energy-related emissions generated by a future office tenant. Energy consumption values for the potential future tenant of the office space were based on CalEEMod defaults for historical energy intensity values.

The GHG intensity value for LADWP in CalEEMod was adjusted to reflect RPS goals and the latest available data. Based on conversations with LADWP staff, LADWP's GHG intensity in 2016 was approximately 837.96 pounds CO_2e per MWh (LADWP 2016).

Existing LA Clippers Games at Staples Center

Baseline operational GHG emissions associated with existing LA Clippers games at the Staples Center would also include emissions associated with electricity and natural gas consumption. GHG emissions associated with electricity and natural gas consumption for the existing LA Clippers games were estimated using the historical default energy intensity values provided within CalEEMod for the arena land use and the square footage of the Staples Center. This analysis conservatively assumes that the minimum annual number of LA Clippers games that occur at the Staples Center (44 events) account for approximately 21 percent of the average number of events and professional sports games that occur at the Staples Center on an annual basis. Thus, energy-related emissions associated with the Staples Center were scaled by 21 percent to account for the existing LA Clippers NBA home games.

The GHG intensity value for LADWP in CalEEMod was adjusted to reflect the 2016 GHG intensity value of 837.96 pounds CO_2e per MWh.

Market-Shifted Events

Baseline operational GHG emissions associated with the market-shifted events that would relocate to the IBEC Project Site also include emissions associated with electricity and natural gas consumption; however, it would be speculative to include the emissions associated with any specific market-shifted event or venue as part of the baseline conditions. In order to estimate the existing operational emissions associated with market-shifted events, an average GHG emissions rate per attendee was developed based on the annual average attendance for sports and entertainment events hosted at three major existing venues in the Los Angeles area, the Staples Center, the Honda Center, and The Forum. Existing energy-related emissions at The Forum and the Staples Center were based on default energy intensity values provided within CalEEMod for the arena land use and square footage of the two venues. Energy-related emissions at the Honda Center were based on actual natural gas and electricity consumption

data (City of Anaheim 2012). For the emissions at the Honda Center, the CO_2e intensity value for Anaheim Public Utilities was estimated to be 1,203.54 pounds per MWh based on the Anaheim Public Utilities 2017 power content label (City of Anaheim 2017). For the emissions at the Staples Center, the GHG intensity value for LADWP in CalEEMod was adjusted to reflect the 2016 GHG intensity value of 837.96 pounds CO_2e per MWh. For the emissions at the Forum, the GHG intensity rate was adjusted to reflect SCE's GHG intensity of approximately 524.70 pounds CO_2e per MWh. The average GHG emissions rate per attendee was then multiplied by 50 percent of the total annual anticipated attendees for non-NBA events at the IBEC Project to represent the energy related GHG emissions associated with market-shifted events.

2.1.2 Mobile Sources

Existing On-Site Buildings

Mobile source emissions for the existing on-site buildings at the IBEC Project Site and the two additional existing buildings included in the Alternate Prairie Access Variant were estimated using default trip rates provided within CalEEMod. CalEEMod uses trip rates based on the Institute of Transportation Engineers (ITE) 9th Edition average trip rates for the respective land use categories. Trip lengths for the associated vehicle trips are CalEEMod defaults, which are based on data collected for Los Angeles County. The vehicle emission factors in CalEEMod are based on EMFAC2014. EMFAC2017 is publicly available; however, EMFAC2014 is still the currently United States Environmental Protection Agency-approved version of EMFAC.

Existing LA Clippers Facilities

Mobile source emissions for the existing LA Clippers Facilities were based on the total number of employees (329 employees) and vehicle emission factors provided in EMFAC2014. The default fleet mix in EMFAC2014 was adjusted to account for the type of vehicles that would travel to the existing LA Clippers Facilities. On-road motor vehicles to the facilities would primarily be passenger vehicles (i.e., light-duty autos and light-duty trucks), and so the assumed percentage of passenger vehicle trips is higher than the default County of Los Angeles average.

The mode share split assumptions for the employees at the existing LA Clippers Facilities were based on the 2017 Southern California Association of Governments (SCAG) Local Profiles Report (SCAG 2017). Based on the SCAG profiles, it was assumed approximately 71 percent of the employees drive alone (single-occupancy personal vehicle trips), 10 percent carpool, 12 percent utilize public transit, 4 percent walk, and 4 percent bike to work. Vehicle trip lengths were based on CalEEMod urban defaults for home-to-work trips for Los Angeles County, which are estimated to be 14.70 miles.

To account for the potential reuse of the office space currently occupied by the LA Clippers Team Offices, the analysis estimates mobile source emissions generated by a future office tenant. Mobile source emissions for the potential future tenant of the office space were based on CalEEMod defaults for trip generation, which are based on ITE 9th Edition average trip rates. Trip lengths for the associated vehicle trips are CalEEMod defaults and are based on data collected for Los Angeles County.

Existing LA Clippers Games at Staples Center

Mobile source emissions for the existing LA Clippers games at the Staples Center were based on the average number of attendees, employees, and event schedule. The mode share split assumptions for the attendees to the LA Clippers games were based on responses to a survey of LA Clippers basketball game attendees at the Staples Center. The mode split for the employees was derived from the 2017 SCAG Local Profiles Report (SCAG 2017). Vehicle trip lengths for employees were based on CalEEMod urban defaults for home-to-work trips for Los Angeles County, which are estimated to be 14.70 miles. The trip length for attendees was based on the weighted average trip distance of 19.38 miles for LA Clippers game attendees at the Staples Center derived from ZIP Code data provided for LA Clippers home game ticket purchases within the greater Los Angeles region.

GHG emissions were calculated using EMFAC2014 using vehicle emission factors for the year 2018. As described above, the fleet mix was adjusted to account for the vehicle trips that would be applicable to the trips to the Staples Center (i.e., light-duty autos and light-duty trucks).

Market-Shifted Events

Mobile source emissions for the existing market-shifted events from other venues in which those events otherwise would be assumed to occur were based on the average number of attendees, employees, and event schedule anticipated for non-NBA game events at the IBEC Project arena. The mode share split assumptions for the attendees were based on survey data from LA Clippers game attendees. The mode split for the employees was derived from the 2017 SCAG Local Profiles Report (SCAG 2017). Vehicle trip lengths for employees were based on CalEEMod urban defaults for home-to-work trips for Los Angeles County, which are estimated to be 14.70 miles. The trip length for attendees was assumed to be the same as the weighted average 19.38-mile trip distance for LA Clippers game attendees. A review of trip lengths reported in environmental documents prepared for other event centers in the Los Angeles region was conducted and showed longer average trip lengths for sporting and entertainment events at other venues, ranging from 20.7 miles (Banc of California Stadium) to 31.1 miles (Honda Center). Using the average trip length and mode split assumptions for an LA Clippers game at Staples Center provides a conservative estimate of baseline mobile emissions, as attendee trips to other venues in the Los Angeles region such as the Honda Center would be

longer and fewer attendees would use alternative transportation than attendees traveling to the Staples Center.

GHG emissions were calculated using EMFAC2014 using vehicle emission factors for the year 2018. As described above, the fleet mix was adjusted to account for the vehicle trips that would be applicable to the attendee trips to the existing event centers (i.e., light-duty autos and light-duty trucks).

2.1.3 Solid Waste

Existing On-Site Buildings and LA Clippers Facilities

GHG emissions associated with solid waste disposal at the existing on-site buildings at the IBEC Project Site and the two additional existing buildings included in the Alternate Prairie Access Variant, and for the existing LA Clippers Facilities were based on default waste generation rates provided in CalEEMod. To account for the potential reuse of the office space currently occupied by the LA Clippers Team Offices, the analysis also estimates solid waste emissions generated by a future office tenant using CalEEMod defaults waste generation rates. Waste disposal rates by land use and overall composition of municipal solid waste in California is primarily based on CalRecycle data. GHG emissions from solid waste disposal are based on Intergovernmental Panel on Climate Change (IPCC) methods using the degradable organic content of waste.

Existing LA Clippers Games at Staples Center

GHG emissions generated from solid waste disposal associated with the existing LA Clippers games were based on the annual waste generation rate of 1.29 tons per 1,000 sq. ft. per year based on 2012 solid waste generation data for a similar multipurpose arena. (City of Sacramento 2013). As discussed above for energy sources, this analysis conservatively assumes LA Clippers games at the Staples Center account for approximately 21 percent of the emissions.

Market-Shifted Events

Solid waste emissions associated with market-shifted events from other venues were estimated using the same approach as for energy-related emissions. A solid waste generation rate of 1.29 tons per 1,000 sq. ft. per year was applied to the square footages for comparable venues in the Los Angeles area and used to generate an estimated GHG emissions rate per attendee. The solid waste-related GHG emissions rate was then multiplied by half of the total number of anticipated attendees for non-NBA basketball game events at the IBEC Project to represent the emissions for market-shifted events.

2.1.4 Water and Wastewater

Existing On-Site Buildings and LA Clippers Facilities

GHG emissions are generated from the use of energy to supply, distribute, and treat water and wastewater. Water-related energy intensities (i.e., kilowatt-hour per gallon of water) in CalEEMod are based on the California Energy Commission's Refining Estimates of Water-Related Energy Use in California. Proposed annual water demands for the existing on-site buildings at the IBEC Project Site and the two additional existing buildings included in the Alternate Prairie Access Variant, as well as the existing LA Clippers Facilities were based on CalEEMod default data for indoor and outdoor water use. To account for the potential reuse of the office space currently occupied by the LA Clippers Team Offices, the analysis also estimates water and wastewater emissions generated by a future office tenant using CalEEMod defaults for water demands.

Existing LA Clippers Games at Staples Center

Similar to the on-site buildings, annual water demands for the arena were based on CalEEMod default data for indoor and outdoor water use. Emissions associated with the LA Clippers games at the Staples Center were scaled by 21 percent to account for the existing emissions.

Market-Shifted Events

Water-related emissions associated with market-shifted events from venues in which those events otherwise would be assumed to occur were estimated using a similar approach as for solid waste and energy-related emissions. Water consumption for the other venues was based on CalEEMod defaults for a typical arena land use and used to estimate a GHG emission rate per attendee. The water-related GHG emissions rate was then multiplied by the anticipated attendance at half of the non-NBA events at the IBEC Project to represent the existing emissions from market-shifted events.

2.1.5 Area Sources

Existing On-Site Buildings

Maintenance of the existing on-site buildings at the IBEC Project Site and the two additional existing buildings included in the Alternate Prairie Access Variant also result in emissions from landscaping and related equipment. Maintenance emissions were calculated using CalEEMod defaults for area sources.

Existing LA Clippers Facilities

Maintenance of the existing LA Clippers Facilities would also result in emissions from landscaping and related equipment. Maintenance emissions were calculated using CalEEMod defaults for area sources.

Existing LA Clippers Games at Staples Center and Market-Shifted Events

Maintenance of the Staples Center and other venues from which the market-shifted events would come from is not expected to change once the IBEC Project becomes operational. Thus, area-source emissions from the existing LA Clippers Games at Staples Center and market-shifted events were not included in the baseline emissions.

2.1.6 Baseline Conditions Results

Table 2 presents the emissions associated with the existing on-site buildings at the IBEC Project Site and IBEC Project Variants sites that would be removed under both the IBEC Project and IBEC Project Variants. For simplification, both the Alternate Prairie Access Variant and the West Century Boulevard Pedestrian Bridge Variant were analyzed together and referred to as the IBEC Project Variants throughout this report. CalEEMod modeling outputs and spreadsheet calculations are provided in Appendix A.

Table 2. Existing On-Site Buildings Operational Emissions

Emissions Source	IBEC Project Site (MT CO_2e)	IBEC Project Variant Sites (MT CO_2e)
Area	<0.1	1
Energy	206	214
Mobile	925	972
Waste	36	37
Water and Wastewater	36	38
Total	**1,203**	**1,262**

Notes: Totals may not add due to rounding.
MT CO_2e = metric tons of carbon dioxide equivalent.
Source: Modeled by AECOM in 2018

Table 3 presents the operational emissions associated with the existing LA Clippers Facilities that would be relocated to the IBEC Project Site. CalEEMod modeling outputs and spreadsheet calculations are provided in Appendix A.

Table 3. Existing LA Clippers Facilities (LA Clippers Team Offices and LA Clippers Training Center)

Emissions Source	Operational Emissions (MT CO_2e)
Area	<0.1
Energy	505
Mobile	427
Waste	132
Water and Wastewater	54
Total	**1,117**

Notes: Totals may not add due to rounding.
MT CO_2e = metric tons of carbon dioxide equivalent.
Source: Modeled by AECOM in 2018

Table 4 presents the emissions estimates for the potential future reuse of the LA Clippers Team Offices space by a new, different office tenant after the space is vacated by the LA Clippers. These emissions estimates were subtracted from the baseline condition emissions.

Table 4. Alternate Future Use of LA Clippers Team Offices

Emissions Source	Operational Emissions (MT CO_2e)
Area	<0.1
Energy	128
Mobile	216
Waste	9
Water and Wastewater	31
Total	**385**

Notes: Totals may not add due to rounding.
MT CO_2e = metric tons of carbon dioxide equivalent.
Source: Modeled by AECOM in 2018

Table 5 presents the operational emissions associated with the existing LA Clippers games at the Staples Center that would be relocated to the IBEC Project arena. CalEEMod modeling outputs and spreadsheet calculations are provided in Appendix A.

Table 5. Existing NBA Games

Emissions Source	Operational Emissions (MT CO_2e)
Energy	1,100
Mobile	4,235
Waste	122
Water and Wastewater	535
Total	**5,992**

Notes: Totals may not add due to rounding.
MT CO_2e = metric tons of carbon dioxide equivalent.
Source: Modeled by AECOM in 2018

Table 6 presents the operational emissions associated with the existing market-shifted events. Energy, solid waste, and water emissions are based on an average GHG emissions rate per attendee, as explained above in Sections 2.1.1, 2.1.3, and 2.1.4.

Table 6. Market-Shifted Events

Emissions Source	Operational Emissions (MT CO_2e)
Mobile	1,685
Energy	1,152
Waste	81
Water and Wastewater	378
Total	**3,296**

Notes: Totals may not add due to rounding.
MT CO_2e = metric tons of carbon dioxide equivalent.
Source: Modeled by AECOM in 2018

Table 7 presents the baseline operational emissions estimates. The existing baseline is slightly different for the IBEC Project compared to the IBEC Project Variants since additional buildings would be removed for the IBEC Project Variants – both scenarios are shown below.

Table 7. Baseline Emissions Summary

Emissions Source	Proposed IBEC Project	Variants
Area	<0.1	1
Energy	2,962	2,970
Mobile	7,272	7,319
Waste	371	372
Water and Wastewater	1,003	1,005
Backfilled Office Space	(385)	(385)
Total	**11,223**	**11,282**

Notes: Totals may not add due to rounding.
MT CO_2e = metric tons of carbon dioxide equivalent.
Source: Modeled by AECOM in 2018

As shown in Table 7, the existing baseline emissions would be approximately 11,223 MT CO_2e for the IBEC Project and 11,282 MT CO_2e for the IBEC Project Variants. The results show there is only a negligible increase in the baseline emissions with the addition of the two existing buildings included in the Alternate Prairie Access Variant.

2.2 IBEC PROJECT OPERATIONAL EMISSIONS METHODOLOGY

As explained previously, the operational life of the IBEC Project was assumed to be 30 years. Therefore, operational emissions were estimated from the anticipated start of operations at the IBEC Project in July 2024 through 2054. Operational emissions associated with the IBEC Project and IBEC Project Variants include emissions from energy (electricity and natural gas),

on-road motor vehicles (mobile), solid waste, water and wastewater, and area sources. Detailed methodology for each emissions source is presented below. Operational emissions were estimated using CalEEMod, Version 2016.3.2, and off-model spreadsheet calculations using ARB-approved tools, such as EMFAC2014. Emissions associated with the IBEC project were estimated based on three operational scenarios: (1) IBEC Project without GHG Reduction Measures, representing the proposed project absent implementation of any GHG emission reduction measures beyond current building code requirements (e.g., 2019 Title 24 standards);(2) IBEC Project with local, direct GHG Reduction Measures, demonstrating the reductions in GHG emissions achieved through local direct measures as defined by AB 987, including the implementation of the IBEC Transportation Demand Management Program (IBEC TDM Program) (*see* Attachment C) and 50% of the reductions resulting from the measures included as project design features and/or features within the Leadership in Energy and Environmental Design (LEED) Gold strategy; and (3) IBEC Project with GHG Reduction Measures, calculating the total net new emissions resulting from the project with the implementation of the IBEC TDM Program and 100% of the project design features and LEED Gold strategy.

2.2.1 Energy

The IBEC Project and IBEC Project Variants would consume energy (electricity and natural gas) for multiple purposes including, but not limited to, building heating and cooling, lighting, and electronics. Based on a white box model for the IBEC project assuming compliance with 2019 Title 24 code and CALGreen requirements, the energy consumption for the IBEC project would be approximately 51 kilo-British thermal units (kBTU) per square foot. The estimated energy consumption rates were entered into CalEEMod to estimate GHG-related emissions. The hotel land use was not included within the white energy box model; thus, energy consumption for the hotel land use utilized the default CalEEMod energy consumption rates, which is based on the CEUS study.

In addition, Executive Order S-14-08 and the recently approved Senate Bill 100 established an RPS of 33 percent by 2020, 50 percent by 2026, 60 percent by 2030, and 100 percent by 2045. To achieve the RPS mandate, utilities such as SCE will increase their renewable resources for energy production. Therefore, all electricity consumption from SCE sources would decrease in GHG intensity (i.e., emissions generated per kilowatt-hour) as the RPS is met. Based on the 2016 California Energy Commission (CEC) power content labels and 2016 SCE GHG intensity factor of 529.11 pounds CO_2e per megawatt-hour (MWh), future GHG intensities were interpolated assuming a linear trajectory toward 100 percent clean electricity by 2045. Thus, the GHG intensity value for SCE in CalEEMod was adjusted to reflect the projected SCE GHG intensity values for future operational years consistent with RPS mandates.

As project design features included within the LEED strategy, the IBEC Project would include sustainable design measures, such as a solar photo-voltaic (PV) system. Based on the project

design features included in the design of the IBEC Project, this analysis assumes the IBEC Project would include a 700-kilowatt (kW) PV system, generating approximately 1,085,000 kW-hours of clean energy annually. In addition, the project design will include compliance with CalGreen Code Voluntary Tier 1, which is estimated to achieve a 10 percent reduction in energy consumption over Title 24 2019 standards based on the preliminary design of the IBEC Project.

2.2.2 Mobile Sources

Trip generation estimates were based on a project-specific analysis from the IBEC Annual Trip Generation Summary (AECOM 2018). As discussed in more detail in Attachment D of the application, future trip generation was estimated based on the average number of attendees/customers and employees for the proposed event schedule. The sports medicine clinic, dining and retail space, community space, and hotel uses were analyzed using standardized trip generation rates, internal capture methodology and pass-by reduction from the nationally accepted ITE Trip Generation Handbooks 10th Edition and San Diego Association of Governments. The LA Clippers offices and the LA Clippers practice and training facility will only be utilized by LA Clippers employees, thus, vehicle trips were estimated using the application of mode share splits and average vehicle occupancy for those employees. Similar to the baseline conditions, mobile source operational emissions associated with the IBEC Project were estimated using emission factors from ARB's EMFAC2014 inventory model. The default fleet mix in EMFAC2014 was also adjusted to account for the vehicle types that would be applicable to the IBEC Project. On-road motor vehicles for the visitors to the arena would primarily be passenger vehicles (i.e., light-duty autos and light-duty trucks). The trip length for attendees was based on the weighted average trip distance of 21.59 miles to the IBEC Project Site based on ZIP Code data provided for ticket purchases for LA Clippers home games from within the greater Los Angeles region. Vehicle trip lengths for employees were based on CalEEMod urban defaults for home-to-work trips for Los Angeles County, which are estimated to be 14.70 miles. Trip lengths associated with the remaining land uses, such as the sports medicine clinic, community space, restaurants, etc. were based on the CalEEMod Commercial-Customer default urban trip length for Los Angeles County of 8.40 miles.

Emission factors for mobile source emissions would decrease in future years based on the implementation of Pavley I and II, Advanced Clean Cars Program, and fleet turnover. Therefore, emission factors were developed for each year after 2024 (first operational year) through 2050. EMFAC2014 does not provide emission factors beyond 2050; thus emissions associated with mobile sources were assumed to remain constant through 2050 and 2054.

The trip generation analysis assumed two project conditions, annual trip rates for the IBEC Project without implementation of the IBEC TDM Program, and annual trip rates for the IBEC Project with implementation of the IBEC TDM Program. The project sponsor would take advantage of the IBEC Project Site's multimodal setting by implementing transportation demand management measures with the goal of minimizing the number of single-occupancy vehicle trips

generated by the IBEC Project or IBEC Project Variants over the project lifetime. As explained in more detail in Attachments C and D of the AB 987 application, implementation of the IBEC TDM Program would result in trip reductions due to use of modes of transportation other than auto trips, such as transit-rail shuttles, public buses, minibuses/microtransit buses, vanpool, charter coach buses, walking, and bicycling (AECOM 2018). Mobile source emissions also include emissions from the proposed IBEC TDM Program measures, such as the transit-rail shuttles, public buses, minibuses/microtransit buses, vanpool, and charter coach buses. The emission factor for these trips was based on an average emission factor for buses, urban buses, and motor coaches provided in EMFAC2014.

Mobile source emissions for the IBEC Project also include emissions from delivery trips. Based on delivery and vendor trip information to similar event centers, it was assumed the IBEC Project main arena structure would have approximately eight deliveries per work day. Delivery truck trips associated with the retail, dining, and hotel land uses were estimated to be 42 trips per work day, based on truck trip generation data provided in the National Cooperative Highway Research Program (NCHRP 2001).. The trip length for delivery trips is assumed to be 6.9 miles, the default commercial-nonwork trip length in CalEEMod for Los Angeles County. The emission factor for these trips were based on an average emission factor for light heavy-duty, medium, and heavy duty vehicle types provided in EMFAC2014.

As stated previously, the IBEC Project Variants would have nearly the same program of development as the IBEC Project, resulting in the same trip generation and travel demand. Therefore, the mobile source emissions for the IBEC Project Variants would be the same as for the IBEC Project.

2.2.3 Waste

GHG emissions generated from solid waste disposal associated with the arena for the IBEC Project and IBEC Project Variants use an annual waste generation rate of 1.29 tons per 1,000 sq. ft. per year based on rates used in similar projects (City of Sacramento 2013). Consistent with estimates provided for similar projects, the solid waste generation rates for the retail and office land uses were based on 2.0 pounds per 100 sq. ft. per day and 1.0 pound per 100 sq. ft. per day, respectively (City and County of San Francisco 2014a). CalEEMod defaults for solid waste generation were used for the hotel component and all other land uses of the IBEC Project not specified above.

2.2.4 Water and Wastewater

GHG emissions are generated from the use of energy to supply, distribute, and treat water and wastewater. Water-related energy intensities (i.e., kilowatt-hour per gallon of water) in CalEEMod are based on the California Energy Commission's Refining Estimates of Water-Related Energy Use in California. Proposed annual water demand for the IBEC Project arena

was based on an indoor water demand factor of 3 gallons per day per attendee and 14 gallons per day per employee for event days (City and County of San Francisco 2014b). The annual water demand for the hotel and all other ancillary land uses, including the team practice & training facility, organization office, sports medicine clinic, community space, dining, and retail, was based on CalEEMod defaults. The indoor and outdoor water use consumption data in CalEEMod for each land use subtype comes from the Pacific Institute's Waste Not, Want Not: The Potential for Urban Water Conservation in California (2003) and the American Water Works Association Research Foundation's Commercial and Institutional End Uses of Water (2000).

As a project design feature under the LEED Strategy, a water conservation strategy to achieve a 50-percent reduction and a 30-percent reduction would be implemented for outdoor and indoor water uses, respectively.

2.2.5 Area Sources

Maintenance of the IBEC Project Site and IBEC Project Variants sites would result in emissions from landscaping and related equipment. Maintenance emissions were calculated using CalEEMod for area sources based on the type and size of land uses associated with the IBEC Project and IBEC Project Variants.

2.2.6 Stationary Sources

The IBEC Project was assumed to have emergency generators with a capacity of up to 3,250 kW to serve as a back-up power supply. Operational emissions for the generators would result from intermittent use for maintenance and testing purposes. The generators were assumed to run approximately 50 hours per year pursuant to South Coast Air Quality Management District Rule 1470, Stationary Diesel Fueled Internal Combustion and Other Compression Ignition Engines.

2.2.7 IBEC Project Operational Emissions Results

Annual operational emissions were estimated based on the methodology discussed above. Table 8 presents the emissions associated with operation of the IBEC Project and IBEC Project Variants combined together with and without GHG Reduction Measures for the first year of operations. The emissions presented below assume the IBEC Project would be operational for the entirety of 2024. However, the first day of operation of the IBEC Project is anticipated to be July 1, 2024. Thus, in the tables that follow to present the net new emissions associated with the IBEC Project, emissions for 2024 are reduced by 50 percent to estimate the emissions for the actual operations of the IBEC Project for that year. CalEEMod modeling outputs and spreadsheet calculations are provided in Appendix A.

Table 8. IBEC Project Operational GHG Emissions – 2024

Emissions Source	Operational Emissions without GHG Reduction Measures (MT CO_2e)	Operational Emissions with Local Direct GHG Reduction Measures [1] (MT CO_2e)	Operational Emissions with All GHG Reduction Measures [2] (MT CO_2e)
Area	0.1	0.1	0.1
Energy	5,851	5,647	5,443
Mobile	12,626	10,256	10,256
Stationary	87	87	87
Waste	1,207	1,207	1,207
Water and Wastewater	222	185	148
Total Operational Emissions	**19,994**	**17,382**	**17,141**

Notes: Totals may not add due to rounding.

[1] Includes reductions associated with implementation of the TDM Program and 50% of the reductions achieved through LEED Gold.

[2] Includes reductions associated with implementation of the TDM Program and 100% of the reductions achieved through LEED Gold.

MT CO_2e = metric tons of carbon dioxide equivalent; PDF = project design features

Source: Modeled by AECOM in 2018

2.3 IBEC PROJECT CONSTRUCTION EMISSIONS

2.3.1 Construction

GHG emissions from construction of the IBEC Project and IBEC Project Variants include emissions from off-road equipment and construction trips. Construction phasing was provided by the project construction contractor. Construction of the IBEC Project and IBEC Project Variants would occur in several overlapping phases over approximately 36 months. GHG emissions were calculated using project-specific information regarding the construction schedule, construction equipment quantities, and material-hauling.

Construction-related GHG emissions were calculated using the most current version of CalEEMod, Version 2016.3.2. CalEEMod allows the user to enter project-specific construction information, such as types, number, and horsepower of construction equipment, and number and length of off-site motor vehicle trips. GHG emissions from on-road construction trips were calculated using the estimated number of truck (concrete and haul trucks) trips and estimated construction workforce quantity. For haul trucks, a 20-mile one-way trip length was used, based on CalEEMod default truck trip lengths, and for vendor trucks (e.g., concrete and water trucks) a 6.90-mile trip length was used, based on the regional default vendor trip length provided in CalEEMod.

Exhaust emissions rates of the construction equipment in California will decrease over time as stricter standards take effect. Advancements in engine technology, retrofits, and turnover in the equipment fleet are anticipated to result in lower levels of emissions. Emissions were estimated for each year that construction would occur based on emission factors for equipment fleet averages specific to that calendar year.

2.3.2 Construction Results

Based on the similarities in project construction required for the IBEC Project and IBEC Project Variants, construction-related emissions after demolition were assumed to be similar for purposes of simplifying this part of the analysis. Table 9 presents the construction-related GHG emissions for the IBEC Project and IBEC Project Variants. GHG emissions were estimated at an annual maximum of 6,401 MT CO_2e during 2023 for both the IBEC Project and IBEC Project Variants. Construction-related emissions were estimated to be approximately 15,214 MT CO_2e and 15,240 CO_2e total over the entire 3-year (36-month) construction period for the IBEC Project and IBEC Project Variants, respectively. CalEEMod modeling outputs are provided in Appendix A.

Table 9. Construction-Related GHG Emissions

Construction Year	IBEC Project GHG Emissions (MT CO_2e)	IBEC Project Variants GHG Emissions (MT CO_2e)
2021 [a]	1,750	1,775
2022	5,630	5,630
2023	6,401	6,401
2024 [b]	1,433	1,433
Total	**15,214**	**15,240**

Notes: Totals may not add due to rounding.
MT CO_2e = metric tons of carbon dioxide equivalent.
[a] Construction in 2021 is anticipated to only occur July through December.
[b] Construction in 2024 is anticipated to only occur January through June.
Source: Modeled by AECOM in 2018

SECTION 3
GHG EMISSIONS RESULTS

3.1 EMISSION RESULTS

As stated previously, operational emissions associated with the IBEC Project and IBEC Project Variants would be similar. However, as shown in Table 7, the baseline emissions under the IBEC Project and IBEC Project Variants would be slightly different. Therefore, the following tables present the net GHG emissions by year for the IBEC Project and IBEC Project Variants.

3.1.1 IBEC Project Emission Results

Table 10 shows the change in GHG emissions by year for the IBEC Project between 2021 and 2054 without GHG Reduction Measures. Table 11 shows the net change in emissions with the GHG Reduction Measures.

Table 10. IBEC Project - Net GHG Emissions by Year without GHG Reduction Measures

Emissions Year	IBEC Project ($MT\ CO_2e$)	Baseline Emissions ($MT\ CO_2e$)	Net Emissions IBEC Project (MT CO2e)
2021[a,b]	1,750	1,203	547
2022 [a,b]	5,630	1,203	4,428
2023 [a,b]	6,401	1,203	5,199
2024 [c]	11,430	6,213	5,217
2025	19,418	11,223	8,195
2026	18,917	11,223	7,694
2027	18,468	11,223	7,244
2028	18,062	11,223	6,839
2029	17,693	11,223	6,470
2030	17,358	11,223	6,135
2031	16,858	11,223	5,635
2032	16,362	11,223	5,139
2033	15,893	11,223	4,669
2034	15,446	11,223	4,223
2035	15,021	11,223	3,798
2036	14,616	11,223	3,393
2037	14,230	11,223	3,007
2038	13,861	11,223	2,638
2039	12,902	11,223	1,678
2040	13,161	11,223	1,938
2041	12,828	11,223	1,605
2042	12,503	11,223	1,279
2043	12,184	11,223	961
2044	11,871	11,223	648
2045	11,562	11,223	339
2046	11,548	11,223	325
2047	11,538	11,223	314
2048	11,529	11,223	306
2049	11,522	11,223	299
2050	11,516	11,223	293
2051	11,516	11,223	293
2052	11,516	11,223	293
2053	11,516	11,223	293
2054	11,516	11,223	293
Total	**448,139**	**346,516**	**101,623**

Notes:
Total may not add due to rounding.
[a] Project emission estimates for 2021 through 2023 include only construction-related emissions.
[b] Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.
[c] IBEC Project operations are anticipated to start July 1, 2024; thus, the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events.
Source: Modeled by AECOM in 2018

Table 11. IBEC Project - Net GHG Emissions by Year with GHG Reduction Measures

Emissions Year	IBEC Project (MT CO_2e)	Baseline Emissions (MT CO_2e)	Net Emissions IBEC Project (MT CO2e)
2021[a,b]	1,750	1,203	547
2022 [a,b]	5,630	1,203	4,428
2023 [a,b]	6,401	1,203	5,199
2024 [c]	10,003	6,213	3,791
2025	16,671	11,223	5,448
2026	16,262	11,223	5,038
2027	15,893	11,223	4,670
2028	15,559	11,223	4,336
2029	15,255	11,223	4,032
2030	14,977	11,223	3,754
2031	14,541	11,223	3,318
2032	14,110	11,223	2,886
2033	13,698	11,223	2,475
2034	13,305	11,223	2,082
2035	12,929	11,223	1,706
2036	12,570	11,223	1,347
2037	12,226	11,223	1,003
2038	11,895	11,223	672
2039	10,997	11,223	-226
2040	11,286	11,223	63
2041	10,982	11,223	-241
2042	10,684	11,223	-539
2043	10,391	11,223	-832
2044	10,103	11,223	-1,120
2045	9,818	11,223	-1,406
2046	9,806	11,223	-1,418
2047	9,796	11,223	-1,427
2048	9,788	11,223	-1,435
2049	9,781	11,223	-1,442
2050	9,775	11,223	-1,448
2051	9,775	11,223	-1,448
2052	9,775	11,223	-1,448
2053	9,775	11,223	-1,448
2054	9,775	11,223	-1,448
Total	**385,981**	**346,516**	**39,466**

Notes:
Total may not add due to rounding.
[a] Project emission estimates for 2021 through 2023 include only construction-related emissions.
[b] Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.
[c] IBEC Project operations are anticipated to start July 1, 2024; thus the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events.
Source: Modeled by AECOM in 2018

As shown in Table 11, the emissions generated by the IBEC Project when considering the TDM Program and project design features, would continue to result in a net increase of 39,466 MT CO_2e in emissions when compared to the baseline.

3.1.2 IBEC Project Variants Emission Results

Table 12 shows the change in GHG emissions by year for the IBEC Project Variants between 2021 and 2054 without GHG Reduction Measures. Table 13 shows the net change in emissions for the IBEC Project Variants with the GHG Reduction Measures.

Table 12. IBEC Project Variants - Net GHG Emissions by Year without GHG Reduction Measures

Emissions Year	Variants (MT CO_2e)	Baseline Emissions (MT CO_2e)	Net Emissions IBEC Project (MT CO2e)
2021[a,b]	1,775	1,262	514
2022 [a,b]	5,630	1,262	4,369
2023 [a,b]	6,401	1,262	5,140
2024 [c]	11,430	6,272	5,158
2025	19,418	11,282	8,136
2026	18,917	11,282	7,635
2027	18,468	11,282	7,185
2028	18,062	11,282	6,780
2029	17,693	11,282	6,411
2030	17,358	11,282	6,076
2031	16,858	11,282	5,576
2032	16,362	11,282	5,080
2033	15,893	11,282	4,610
2034	15,446	11,282	4,164
2035	15,021	11,282	3,739
2036	14,616	11,282	3,334
2037	14,230	11,282	2,948
2038	13,861	11,282	2,579
2039	12,902	11,282	1,619
2040	13,161	11,282	1,879
2041	12,828	11,282	1,546
2042	12,503	11,282	1,220
2043	12,184	11,282	902
2044	11,871	11,282	589
2045	11,562	11,282	280
2046	11,548	11,282	266
2047	11,538	11,282	255
2048	11,529	11,282	247
2049	11,522	11,282	240
2050	11,516	11,282	234
2051	11,516	11,282	234
2052	11,516	11,282	234
2053	11,516	11,282	234
2054	11,516	11,282	234
Total	**448,165**	**348,521**	**99,644**

Notes:
Total may not add due to rounding.
[a] Project emission estimates for 2021 through 2023 include only construction-related emissions.
[b] Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.
[c] IBEC Project operations are anticipated to start July 1, 2024; thus the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events.
Source: Modeled by AECOM in 2018

Table 13. IBEC Project Variants - Net GHG Emissions by Year with GHG Reduction Measures

Emissions Year	Variants ($MT\ CO_2e$)	Baseline Emissions ($MT\ CO_2e$)	Net Emissions IBEC Project (MT CO2e)
2021[a,b]	1,775	1,262	514
2022 [a,b]	5,630	1,262	4,369
2023 [a,b]	6,401	1,262	5,140
2024 [c]	10,003	6,272	3,732
2025	16,671	11,282	5,389
2026	16,262	11,282	4,980
2027	15,893	11,282	4,611
2028	15,559	11,282	4,277
2029	15,255	11,282	3,973
2030	14,977	11,282	3,695
2031	14,541	11,282	3,259
2032	14,110	11,282	2,827
2033	13,698	11,282	2,416
2034	13,305	11,282	2,023
2035	12,929	11,282	1,647
2036	12,570	11,282	1,288
2037	12,226	11,282	944
2038	11,895	11,282	613
2039	10,997	11,282	-285
2040	11,286	11,282	4
2041	10,982	11,282	-300
2042	10,684	11,282	-598
2043	10,391	11,282	-891
2044	10,103	11,282	-1,179
2045	9,818	11,282	-1,465
2046	9,806	11,282	-1,477
2047	9,796	11,282	-1,486
2048	9,788	11,282	-1,494
2049	9,781	11,282	-1,501
2050	9,775	11,282	-1,507
2051	9,775	11,282	-1,507
2052	9,775	11,282	-1,507
2053	9,775	11,282	-1,507
2054	9,775	11,282	-1,507
Total	**386,007**	**348,521**	**37,486**

Notes:
Total may not add due to rounding.
[a] Project emission estimates for 2021 through 2023 include only construction-related emissions.
[b] Baseline emission estimates for 2021 through 2023 include only emissions associated with the existing on-site buildings that would be removed at the start of construction.
[c] IBEC Project operations are anticipated to start July 1, 2024; thus the net new emission estimates for 2024 include six months of construction emissions and six months of operational emissions. Similarly, baseline emissions for 2024 only include half of the existing annual operational emissions associated with the LA Clippers Facilities, existing LA Clippers games, and market-shifted non-NBA events .
Source: Modeled by AECOM in 2018

As shown in Table 13, the emissions generated by the IBEC Project Variants with the GHG Reduction Measures would result in a net increase of 37,486 MT CO_2e in emissions when compared to the baseline.

3.2 NET NEW PROJECT EMISSIONS AND AB 987 REQUIREMENTS

As shown above in Tables 10 through 13, the IBEC Project and IBEC Project Variants would result in net new GHG emissions of approximately 101,623 MT CO_2e and 99,644 MT CO_2e, respectively, absent implementation of GHG Reduction Measures.

Pursuant to AB 987, the project must not result in any net new emission of GHGs. Per the requirements of AB 987, half of the net new GHG emissions for the IBEC Project must be reduced by local, direct measures. Under this requirement, 50% of the reductions resulting from project design features and measures used as part of the strategy to meet LEED Gold requirements can be considered “local, direct measures.” Under AB 987, the remaining half of net new emissions not reduced by local, direct measures may be reduced by the remaining reductions attributable to LEED Gold features and the purchase of carbon credits. Co-benefits from measures used to satisfy nitrogen oxide (NOx) and particulate matter with aerodynamic diameter less than 2.5 microns ($PM_{2.5}$) reduction requirements under AB 987 that also reduce GHG emissions can also be used to meet these GHG emission reduction requirements.

The tables below show the net new emissions produced by the IBEC Project and the IBEC Project Variants without GHG Reduction Measures (i.e., without implementation of the IBEC TDM Program or any of the project design features and measures used as part of the LEED Gold strategy), the net new emissions produced by the IBEC Project and IBEC Project Variants after applying the reductions resulting from implementation of the local, direct GHG Reduction Measures (i.e., with implementation of the IBEC TDM Program and 50 percent of the project design features and measures used as part of the LEED Gold strategy), and the net new emissions produced by the IBEC Project and IBEC Project Variants after application of all GHG Reduction Measures (i.e., with implementation of the IBEC TDM Program and all of the project design features and measures used as part of the LEED Gold certification strategy).

3.2.1 IBEC Project Net New Emissions

Table 14. IBEC Project Net New Emissions Summary

Emissions Year	IBEC Project without GHG Reduction Measures (No TDM or PDFs)	IBEC Project with Local, Direct GHG Reduction Measures (TDM and 50% PDFs)	IBEC Project with GHG Reduction Measures (TDM and 100% PDFs)
2021	547	547	547
2022	4,428	4,428	4,428
2023	5,199	5,199	5,199
2024	5,217	3,911	3,791
2025	8,195	5,686	5,448
2026	7,694	5,274	5,038
2027	7,244	4,902	4,670
2028	6,839	4,566	4,336
2029	6,470	4,258	4,032
2030	6,135	3,977	3,754
2031	5,635	3,531	3,318
2032	5,139	3,087	2,886
2033	4,669	2,664	2,475
2034	4,223	2,260	2,082
2035	3,798	1,872	1,706
2036	3,393	1,502	1,347
2037	3,007	1,147	1,003
2038	2,638	804	672
2039	1,678	-105	-226
2040	1,938	173	63
2041	1,605	-143	-241
2042	1,279	-453	-539
2043	961	-757	-832
2044	648	-1,056	-1,120
2045	339	-1,353	-1,406
2046	325	-1,365	-1,418
2047	314	-1,375	-1,427
2048	306	-1,383	-1,435
2049	299	-1,390	-1,442
2050	293	-1,396	-1,448
2051	293	-1,396	-1,448
2052	293	-1,396	-1,448
2053	293	-1,396	-1,448
2054	293	-1,396	-1,448
Total	**101,623**	**43,428**	**39,466**

As shown in Table 14, the emissions generated by the IBEC Project with implementation of the GHG Reduction Measures, would continue to result in a net increase of 39,466 MT CO_2e in emissions when compared to the baseline.

3.2.2 IBEC Project Variants Net New Emissions

Table 15. IBEC Project Variants Project Net New Emissions Summary

Emissions Year	IBEC Project Without GHG Reduction Measures (No TDM or PDFs)	IBEC Project With Local, Direct GHG Reduction Measures (TDM and 50% PDFs)	Project With GHG Reduction Measures (TDM and 100% PDFs)
2021	514	514	514
2022	4,369	4,369	4,369
2023	5,140	5,140	5,140
2024	5,158	3,852	3,732
2025	8,136	5,627	5,389
2026	7,635	5,215	4,980
2027	7,185	4,843	4,611
2028	6,780	4,507	4,277
2029	6,411	4,199	3,973
2030	6,076	3,918	3,695
2031	5,576	3,472	3,259
2032	5,080	3,028	2,827
2033	4,610	2,605	2,416
2034	4,164	2,201	2,023
2035	3,739	1,813	1,647
2036	3,334	1,443	1,288
2037	2,948	1,088	944
2038	2,579	745	613
2039	1,619	-164	-285
2040	1,879	114	4
2041	1,546	-202	-300
2042	1,220	-512	-598
2043	902	-816	-891
2044	589	-1,115	-1,179
2045	280	-1,412	-1,465
2046	266	-1,424	-1,477
2047	255	-1,434	-1,486
2048	247	-1,442	-1,494
2049	240	-1,449	-1,501
2050	234	-1,455	-1,507
2051	234	-1,455	-1,507
2052	234	-1,455	-1,507
2053	234	-1,455	-1,507
2054	234	-1,455	-1,507
Total	**99,644**	**41,448**	**37,486**

As shown in Table 15, the emissions generated by the IBEC Project Variants with implementation of the GHG Reduction Measures, would continue to result in a net increase of 37,486 MT CO_2e in emissions when compared to the baseline.

3.3 AB 987 SUMMARY OF REDUCTIONS

As explained in Section 3.2, half of the net new GHG emissions produced by the IBEC Project without GHG Reduction Measures must be reduced by local, direct measures, including the

reductions in emissions resulting from implementation of the IBEC TDM Program and 50% of the reductions resulting from the LEED Gold strategy. Tables 16 and 17 identify the reductions that would be achieved through these local, direct measures and the remaining GHG emission reductions required that would need to be achieved through the additional 50% of LEED Gold measures, purchase of offset credits, and/or co-benefits from NOx and $PM_{2.5}$ reduction measures.

Table 16. IBEC Project Local Direct Measures Emissions Reductions and Offsets Summary

IBEC Project Condition and Reductions	Emissions Estimates (MT CO_2e)	Percent of Net New Emissions
Total Net New Emissions IBEC Project Without GHG Reduction Measures	101,623	100%
Required GHG Reductions from Local, Direct Measures	50,812	50%
Total Emissions Reductions from LEED Gold	7,925	8%
50% of Total Emission Reductions from LEED Gold Qualifying as Local Direct Measures	3,962	4%
Total Reductions from IBEC TDM Program	54,233	53%
Total Amount of Reductions from Local, Direct Measures (TDM Program and 50% of LEED Gold)	58,195	57%
Total Amount of Reductions from GHG Reduction Measures (TDM Program and 100% of LEED Gold)	62,158	61%
Additional Reductions Needed from Offset Credits and/or Co-benefits of NOx and PM2.5 Reduction Measures	39,466	39%
Total Net New Emissions	0	0%

Notes: Totals may not add due to rounding. MT CO_2e = metric tons carbon dioxide equivalents

Table 17. IBEC Project Variants Local Direct Emissions Reductions and Offsets Summary

Project Condition and Reductions	Emissions Estimates (MT CO_2e)	Percent of Net New Emissions
Total Net New Emissions IBEC Project Variants Without GHG Reduction Measures	99,644	100%
Required GHG Reductions from Local, Direct Measures	49,822	50%
Total Emissions Reductions from LEED Gold	7,925	8%
50% of Total Emission Reductions from LEED Gold Qualifying as Local Direct Measures	3,962	4%
Total Reductions from IBEC TDM Program	54,233	54%
Total Amount of Reductions from Local, Direct Measures (TDM Program and 50% of LEED Gold)	58,195	58%
Total Amount of Reductions from GHG Reduction Measures (TDM Program and 100% of LEED Gold)	62,158	62%
Additional Reductions Needed from Offset Credits and/or Co-benefits of NOx and PM2.5 Reduction Measures	37,486	38%
Total Net New Emissions	0	0%

Notes: Totals may not add due to rounding. MT CO_2e = metric tons carbon dioxide equivalents

As shown in Tables 16 and 17, the IBEC Project and the IBEC Project Variants would meet the AB 987 requirement that 50 percent of the net new emissions need to be offset by local, direct measures. As such, the remaining net new emissions of 39,466 MT CO_2e and 37,486 MT CO_2e for the IBEC Project and IBEC Project Variants, respectively, would need to be offset by the purchase of carbon credits and/or co-benefits of NO_x and $PM_{2.5}$ reduction measures.

3.4 MEASURES FOR OFFSETTING NET INCREASE GHG EMISSIONS

3.4.1 LEED Gold Certification

The IBEC Project or IBEC Project Variants, upon completion, will qualify for LEED Gold certification or better. The AB 987 application specifies those design elements that make the IBEC Project (and IBEC Project Variants) eligible for LEED Gold certification or better. As required by AB 987, the applicant will submit an application to receive LEED Gold Certification for new construction within one year of the completion of the first NBA season at the IBEC Project.

3.4.2 IBEC TDM Program

In compliance with AB 987, the IBEC TDM Program is designed to achieve a 15% reduction in annual vehicle trips when measured against the IBEC Project without implementation of the IBEC TDM Program. As explained in more detail in Attachment C of the AB 987 application, the IBEC TDM Program includes strategies, incentives, and tools that provide opportunities for event attendees and employees to choose modes of transportation other than the automobile. The measures are to be coordinated with the City of Inglewood Planning Department at the time of project approval, and implemented as soon as feasible. The applicant is required to verify

achievement of the 15% reduction in vehicle trips to the City of Inglewood and the Office of Planning and Research no later than January 1, 2030.

3.4.3 Potential Co-Benefits from NO_x and $PM_{2.5}$ Reductions per AB 987

Per the requirements of AB 987, the IBEC Project must also achieve reductions of 400 tons of NOx and 10 tons of $PM_{2.5}$ over 10 years following the commencement of construction of the project. Of these amounts, 130 tons of NOx and 3 tons of $PM_{2.5}$ must be achieved within the first year following commencement of construction. If the applicant can demonstrate and verify to the South Coast Air Quality Management District that it has invested at least $30 million dollars toward achieve those air pollutant reductions, only one-half of these reduction amounts must be achieved. If there are any GHG emission reductions associated with the reduction measures used to meet the NOx and $PM_{2.5}$ requirement (i.e., GHG reduction co-benefits), those reductions can also be counted towards meeting the GHG reductions required for the IBEC Project or IBEC Project Variants, as shown in Tables 16 and 17.

3.4.4 Carbon Credits

Pursuant to AB 987, the project sponsor may obtain offset credits for up to 50 percent of the GHG emissions reductions necessary to achieve the no net new GHG emissions requirement. If using offset credits, the applicant must, to the extent feasible, place the highest priority on the purchase of offset credits that produce emission reduction within the City of Inglewood or the boundaries of the South Coast Air Quality Management District. As show in Tables 16 and 17 above, the reductions estimated from local, direct GHG Reduction Measures for the IBEC Project and IBEC Project Variants exceed the requirement under AB 987 to obtain at least 50 percent of GHG emission reductions through such local, direct measures. Therefore, it is anticipated that offset credits would be used to achieve less than 50 percent of the overall GHG emission reductions necessary to meet the net zero GHG emissions requirement (up to approximately 38 to 39 percent).

Carbon credits shall be verified by a third party accredited by ARB, such as the American Carbon Registry, Climate Action Reserve, and Verified Carbon Standard. Carbon credits shall be purchased at a net present value. although the contracts could propose acquiring the credits in advance of the emission-generating activities to be offset. Contracts to purchase carbon credits for construction emissions will be entered into prior to the issuance of grading permits, and contracts to purchase carbon credits for operational emissions will be entered into prior to the issuance of the final certificate of occupancy for the IBEC Project arena. Copies of the contract(s) shall be provided to ARB and the Governor’s office to verify that construction and lifetime operational emissions have been offset.

SECTION 4
REFERENCES

AECOM. 2018. Project Condor Annual Trip Generation Summary. Version 5. October.

California Emissions Estimator Model (CalEEMod) Version 2016.3.2. Available at http://www.caleemod.com.

City of Anaheim. 2012. Honda Center Enhancement Project. Available at: https://www.anaheim.net/1077/Honda-Center-Enhancement-Project. Accessed October 2018.

——— 2017. Power Content Label. Available at https://www.anaheim.net/3452/Power-Content-Label. Accessed October 2018.

City of Sacramento. 2013. Sacramento Entertainment and Sports Center & Related Development Draft Environmental Impact Report. Available at: https://www.cityofsacramento.org/-/media/Corporate/Files/CDD/Planning/Environmental-Impact-Reports/Arena_ESC/411UtilitiesandServiceSystems.pdf?la=en. Accessed October 2018.

City and County of San Francisco. 2014a Notice of an Environmental Impact Report. Event Center and Mixed-Use Development at Mission Bay Blocks 29-32. Table 3, page 70. Available: https://sfocii.org/sites/default/files/ftp/meetingarchive/commission/sfocii.org/modules/InfoMemo-MBSGSWExhibitB-documentid=7886.pdf. Accessed: October 16, 2018.

——— 2014b. Mission Bay Blocks 29-32 – Water Demand Memorandum. Accessed October 2018.

Intergovernmental Panel on Climate Change (IPCC). 2006 IPCC Guidelines for National Greenhouse Gas Inventories. Available at http://www.ipcc-nggip.iges.or.jp/public/2006gl/. Accessed October 2018.

——— 2013. Climate Change 2013: The Physical Science Basis. Available at http://www.ipcc.ch/report/ar5/wg1/. Accessed October 2018.

Los Angeles Department of Water and Power (LADWP). 2016. Personal communication with staff. City of Los Angeles Greenhouse Gas Inventory.

National Cooperative Highway Research Program (NCHRP). 2001. Truck Trip Generation Data: A Synthesis of Highway Practice. Available at http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_298.pdf. Accessed October 2018.

Southern California Association of Governments (SCAG). 2017. Local Profiles Report. Available at: https://www.scag.ca.gov/Documents/LosAngeles.pdf. Accessed October 2018.

APPENDIX A

CALEEMOD AND GREENHOUSE GAS MODELING DATA

Table of Contents Page

Proposed IBEC Project Emissions Summary 3
Variant Emissions Summary 5
Baseline Emissions Summary 7
Construction Emissions Summary 9
IBEC Project Operations Emissions without GHG Reduction Measures 11
IBEC Project Operations Emissions with all GHG Reduction Measures 13
IBEC Project Operations Emissions with Local, Direct GHG Reduction Measures 15
Mobile Source Emissions 17
Water Consumption Estimates 23
CalEEMod Run Outputs 25
Project Operations Outputs 26
Baseline Emissions Outputs 239
Construction Outputs 389

Proposed IBEC Project Emissions Summary

Net GHG Emissions Summary: Proposed IBEC Project

Project Condition																			
GHG Emissions without TDM and without Project Design Features	Emissions Source	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Construction	1,750	5,630	6,401	1,433													
	Project Operations				9,997	19,418	18,917	18,468	18,062	17,693	17,358	16,858	16,362	15,893	15,446	15,021	14,616	14,230
	Existing Operations (2018)	1,203	1,203	1,203	6,213	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
	NET GHG EMISSIONS	547	4,428	5,199	5,217	8,195	7,694	7,244	6,839	6,470	6,135	5,635	5,139	4,669	4,223	3,798	3,393	3,007
	Cumulative Total	547	4,975	10,173	15,390	23,585	31,279	38,524	45,363	51,833	57,967	63,602	68,741	73,411	77,633	81,431	84,824	87,831
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Construction																	
	Project Operations	13,861	12,902	13,161	12,828	12,503	12,184	11,871	11,562	11,548	11,538	11,529	11,522	11,516	11,516	11,516	11,516	11,516
	Existing Operations (2018)	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
	NET GHG EMISSIONS	2,638	1,678	1,938	1,605	1,279	961	648	339	325	314	306	299	293	293	293	293	293
	Cumulative Total	90,469	92,148	94,085	95,690	96,969	97,930	98,578	98,916	99,242	99,556	99,862	100,160	100,453	100,745	101,038	101,331	101,623

GHG Emissions with TDM and 50% Project Design Features	Emissions Source	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Construction	1,750	5,630	6,401	1,433													
	Project Operations				8,691	16,909	16,497	16,125	15,789	15,482	15,200	14,754	14,310	13,888	13,483	13,096	12,725	12,370
	Existing Operations (2018)	1,203	1,203	1,203	6,213	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
	NET GHG EMISSIONS	547	4,428	5,199	3,911	5,686	5,274	4,902	4,566	4,258	3,977	3,531	3,087	2,664	2,260	1,872	1,502	1,147
	Cumulative Total	547	4,975	10,173	14,084	19,770	25,044	29,946	34,512	38,771	42,748	46,278	49,366	52,030	54,290	56,162	57,664	58,811
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Construction																	
	Project Operations	12,027	11,118	11,396	11,080	10,771	10,467	10,167	9,870	9,858	9,848	9,840	9,833	9,827	9,827	9,827	9,827	9,827
	Existing Operations (2018)	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
	NET GHG EMISSIONS	804	(105)	173	(143)	(453)	(757)	(1,056)	(1,353)	(1,365)	(1,375)	(1,383)	(1,390)	(1,396)	(1,396)	(1,396)	(1,396)	(1,396)
	Cumulative Total	59,615	59,510	59,683	59,539	59,087	58,330	57,274	55,921	54,555	53,181	51,798	50,408	49,012	47,616	46,220	44,824	43,428

GHG Emissions with TDM and 100% Project Design Features	Emissions Source	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Construction	1,750	5,630	6,401	1,433													
	Project Operations				8,570	16,671	16,262	15,893	15,559	15,255	14,977	14,541	14,110	13,698	13,305	12,929	12,570	12,226
	Existing Operations (2018)	1,203	1,203	1,203	6,213	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
	NET GHG EMISSIONS	547	4,428	5,199	3,791	5,448	5,038	4,670	4,336	4,032	3,754	3,318	2,886	2,475	2,082	1,706	1,347	1,003
	Cumulative Total	547	4,975	10,173	13,964	19,412	24,450	29,120	33,456	37,488	41,242	44,560	47,446	49,921	52,003	53,709	55,056	56,059
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Construction																	
	Project Operations	11,895	10,997	11,286	10,982	10,684	10,391	10,103	9,818	9,806	9,796	9,788	9,781	9,775	9,775	9,775	9,775	9,775
	Existing Operations (2018)	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223	11,223
	NET GHG EMISSIONS	672	(226)	63	(241)	(539)	(832)	(1,120)	(1,406)	(1,418)	(1,427)	(1,435)	(1,442)	(1,448)	(1,448)	(1,448)	(1,448)	(1,448)
	Cumulative Total	56,730	56,504	56,568	56,326	55,787	54,955	53,835	52,430	51,012	49,585	48,149	46,707	45,259	43,811	42,362	40,914	39,466

Notes: Units are in metric tons CO_2e per year

Variant Emissions Summary

Net GHG Emissions Summary: Variant

Project Condition																		
GHG Emissions without TDM and without Project Design Features	Emissions Source	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Construction	1,775	5,630	6,401	1,433													
	Project Operations				9,997	19,418	18,917	18,468	18,062	17,693	17,358	16,858	16,362	15,893	15,446	15,021	14,616	14,230
	Existing Operations (2018)	1,262	1,262	1,262	6,272	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
	NET GHG EMISSIONS	514	4,369	5,140	5,158	8,136	7,635	7,185	6,780	6,411	6,076	5,576	5,080	4,610	4,164	3,739	3,334	2,948
	Cumulative Total	514	4,883	10,022	15,180	23,316	30,951	38,137	44,916	51,328	57,403	62,979	68,059	72,670	76,833	80,572	83,906	86,854
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Construction																	
	Project Operations	13,861	12,902	13,161	12,828	12,503	12,184	11,871	11,562	11,548	11,538	11,529	11,522	11,516	11,516	11,516	11,516	11,516
	Existing Operations (2018)	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
	NET GHG EMISSIONS	2,579	1,619	1,879	1,546	1,220	902	589	280	266	255	247	240	234	234	234	234	234
	Cumulative Total	89,433	91,052	92,931	94,477	95,697	96,599	97,188	97,468	97,734	97,989	98,236	98,475	98,709	98,943	99,176	99,410	99,644

GHG Emissions with TDM and 50% Project Design Features	Emissions Source	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Construction	1,775	5,630	6,401	1,433													
	Project Operations				8,691	16,909	16,497	16,125	15,789	15,482	15,200	14,754	14,310	13,888	13,483	13,096	12,725	12,370
	Existing Operations (2018)	1,262	1,262	1,262	6,272	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
	NET GHG EMISSIONS	514	4,369	5,140	3,852	5,627	5,215	4,843	4,507	4,199	3,918	3,472	3,028	2,605	2,201	1,813	1,443	1,088
	Cumulative Total	514	4,883	10,022	13,874	19,501	24,716	29,559	34,066	38,265	42,184	45,655	48,683	51,289	53,490	55,303	56,746	57,834
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Construction																	
	Project Operations	12,027	11,118	11,396	11,080	10,771	10,467	10,167	9,870	9,858	9,848	9,840	9,833	9,827	9,827	9,827	9,827	9,827
	Existing Operations (2018)	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
	NET GHG EMISSIONS	745	(164)	114	(202)	(512)	(816)	(1,115)	(1,412)	(1,424)	(1,434)	(1,442)	(1,449)	(1,455)	(1,455)	(1,455)	(1,455)	(1,455)
	Cumulative Total	58,579	58,415	58,529	58,326	57,815	56,999	55,884	54,472	53,048	51,614	50,172	48,723	47,268	45,813	44,358	42,903	41,448

GHG Emissions with TDM and 100% Project Design Features	Emissions Source	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037
	Construction	1,775	5,630	6,401	1,433													
	Project Operations				8,570	16,671	16,262	15,893	15,559	15,255	14,977	14,541	14,110	13,698	13,305	12,929	12,570	12,226
	Existing Operations (2018)	1,262	1,262	1,262	6,272	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
	NET GHG EMISSIONS	514	4,369	5,140	3,732	5,389	4,980	4,611	4,277	3,973	3,695	3,259	2,827	2,416	2,023	1,647	1,288	944
	Cumulative Total	514	4,883	10,022	13,754	19,142	24,122	28,733	33,010	36,983	40,677	43,937	46,764	49,180	51,203	52,850	54,138	55,082
	Emissions Source	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
	Construction																	
	Project Operations	11,895	10,997	11,286	10,982	10,684	10,391	10,103	9,818	9,806	9,796	9,788	9,781	9,775	9,775	9,775	9,775	9,775
	Existing Operations (2018)	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282	11,282
	NET GHG EMISSIONS	613	(285)	4	(300)	(598)	(891)	(1,179)	(1,465)	(1,477)	(1,486)	(1,494)	(1,501)	(1,507)	(1,507)	(1,507)	(1,507)	(1,507)
	Cumulative Total	55,694	55,409	55,414	55,113	54,515	53,624	52,445	50,981	49,504	48,018	46,524	45,022	43,515	42,008	40,500	38,993	37,486

Notes: Units are in metric tons CO_2e per year

Baseline Emissions Summary

Baseline Emissions

Baseline Operational Annual Emissions	
Four components make up the baseline operational emissions:	
1	Existing On-Site Buildings
2	Existing LA Clippers Facilities (Organization Office and Practice & Training Facility)
3	Existing LA Clippers Games at the Staples Center
4	Existing Market-Shifted Events

Baseline Operational Year 2018

Total Baseline Emissions (MT CO_2e/year)		
Emissions Source	Proposed Project	Variant
Area	0.00	1.35
Energy	2,962.18	2,970.06
Mobile	7,271.85	7,318.70
Waste	370.91	372.22
Water	1,003.12	1,004.72
Total	11,223.18	11,282.16

Component 1	Existing Onsite Buildings (MT CO_2e/year)	
Emission Source	Proposed Project	Variants
Area	0.00	1.35
Energy	205.82	213.70
Mobile	924.83	971.67
Waste	35.51	36.82
Water	36.38	37.98
Total	1,202.54	1,261.52

Component 2a	Existing LA Clippers Facilities (MT CO_2e/year)
Emission Source	MT per year
Area	0.00
Energy	504.56
Mobile	426.98
Waste	131.66
Water	53.88
Total	1,117.08

Component 2b	Reuse of Team Office (MT CO_2e/year)
Emission Source	MT per year
Area	0.00
Energy	128.30
Mobile	215.89
Waste	9.29
Water	31.41
Total	384.89

Notes: Units are in metric tons CO2e per year

Component 3	Existing Clippers Games at Staples Center (MT CO_2e/year)
Emission Source	MT per year
Area	-
Energy	1,100.26
Mobile	4,234.57
Waste	122.45
Water	534.99
Total	5,992.27

Notes: Accounts from LA Clippers NBA games only. Includes approx. 21% of Staples Center emissions

Component 4	Market-Shifted Events (MT CO_2e/year)
Emission Source	MT per year
Mobile	1,685.47
Area	-
Energy	1,151.55
Waste	81.29
Water	377.87
Total	3,296.19

Assumptions:	
LA Clippers Games account for 21% of the Staples Center Emissions.	
50% of events at the proposed IBEC Project site would be net new. 50% would be market shifted.	
Emissions from market-shifted events based on GHG emissions per attendee basis.	
302,200	50% of average attendees at proposed IBEC Project (non-NBA events)
4,615,931	Total number of attendees at other Los Angeles area venues

Number of Events at Staples Center		
Event	Number of Events	Percent
LA Clippers	44	20.6%
Lakers	44	20.6%
Kings	44	20.6%
Sparks	17	7.9%
Concerts	32	15.0%
Family Shows	22	10.3%
Other	11	5.1%
Total	21400%	100%

Total GHG Emissions from Other Los Angeles Area Venues		
Emission Source	MT CO_2e/year	MT CO_2e/year/Attendee
Area	0.00	-
Energy	17,589.32	0.003811
Mobile	-	-
Waste	1241.69	0.00
Water	5771.79	0.00
Total	24,602.81	0.005329977

The Forum	
Emission Source	MT CO_2e/year
Area	0.00
Energy	1,084.03
Mobile	-
Waste	224.47
Water	689.93
Total	1,998.42

Honda Center	
Emission Source	MT CO_2e/year
Area	0.00
Energy	11,154.05
Mobile	-
Waste	421.68
Water	2,479.87
Total	14,055.60

Staples Center	
Emission Source	MT CO_2e/year
Area	0.00
Energy	5,351.24
Mobile	-
Waste	595.55
Water	2,602.00
Total	8,548.78

Construction Emissions Summary

Construction Emissions for Proposed IBEC Project and Variants

Construction Emissions (MT CO_2e)		
Year	Proposed Project	Variants
2021	1,749.51	1775.11
2022	5,630.46	5,630.46
2023	6,401.09	6,401.09
2024	1,432.95	1,432.95
Total	15,214.01	15,239.61

Notes: Units are in metric tons CO2e per year

Proposed Project	Construction of Arena + Ancillary Land Uses	Construction of Parking Garages
Year	MT CO_2e	
2021	1749.51	
2022	5630.46	
2023	4773.87	1627.22
2024	717.04	715.91
Total	12,870.88	2,343.13

Removal of additional buildings for the Variant:

Variant	GHG Emissions (MT CO_2e)
2021	25.6045

Notes:

Assumes removal of additional buildings occurs in 2021.

Construction of arena + ancillary land uses and parking garages overlap in 2023 and 2024.

IBEC Project Operations Emissions
without
GHG Reduction Measures

Proposed IBEC Project Operational Emissions

Project Condition: Without TDM and without LEED Gold Project Design Features

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,925.32	5,777.17	5,705.48	5,633.79	5,562.11	5,490.42	5,418.73	5,136.53	4,854.34	4,572.14	4,289.94	4,007.74	3,725.56	3,443.38	3,161.20
Area	0.07	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	6,313.19	12,126.97	11,700.36	11,324.90	10,993.53	10,699.07	10,437.49	10,229.70	10,026.23	9,848.47	9,693.64	9,560.74	9,448.21	9,354.45	9,276.83
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	111.21	219.86	217.36	214.87	212.37	209.87	207.38	197.55	187.72	177.89	168.06	158.24	148.41	138.58	128.75
Total	9,996.76	19,418.08	18,917.29	18,467.65	18,062.09	17,693.45	17,357.69	16,857.88	16,362.37	15,892.58	15,445.73	15,020.80	14,616.27	14,230.50	13,860.87

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,879.02	2,596.84	2,314.64	2,032.44	1,750.24	1,468.04	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84	1,185.84
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	9,213.02	9,160.90	9,119.69	9,086.55	9,060.10	9,039.14	9,021.90	9,008.39	8,997.68	8,989.04	8,981.89	8,975.90	8,975.90	8,975.90	8,975.90	8,975.90
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	118.93	109.10	99.27	89.44	79.62	69.79	59.96	59.96	59.96	59.96	59.96	59.96	59.96	59.96	59.96	59.96
Total	12,901.63	13,160.93	12,827.68	12,502.52	12,184.04	11,871.06	11,561.79	11,548.28	11,537.57	11,528.93	11,521.77	11,515.78	11,515.78	11,515.78	11,515.78	11,515.78

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024). 50%

Units are in MT CO_2e.

IBEC Project Operations Emissions
with all
GHG Reduction Measures

Proposed IBEC Project Operational Emissions

Project Condition: With TDM and 100% of reductions achieved through LEED Gold.

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,721.37	5,374.34	5,307.58	5,240.83	5,174.08	5,107.33	5,040.58	4,777.80	4,515.03	4,252.26	3,989.48	3,726.71	3,463.95	3,201.20	2,938.44
Area	0.07	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	5,128.01	9,856.18	9,515.32	9,215.05	8,949.78	8,713.80	8,503.93	8,337.82	8,175.13	8,032.86	7,908.79	7,802.12	7,712.38	7,637.54	7,575.50
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	73.99	146.31	144.68	143.05	141.42	139.79	138.16	131.75	125.34	118.93	112.51	106.10	99.69	93.27	86.86
Total	8,570.42	16,670.91	16,261.67	15,893.02	15,559.36	15,255.01	14,976.76	14,541.46	14,109.59	13,698.13	13,304.87	12,929.02	12,570.11	12,226.10	11,894.89

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,675.69	2,412.93	2,150.16	1,887.38	1,624.61	1,361.84	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06	1,099.06
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	7,550.53	7,505.30	7,470.09	7,441.30	7,417.81	7,398.68	7,382.50	7,370.54	7,360.79	7,352.68	7,345.76	7,339.76	7,339.76	7,339.76	7,339.76	7,339.76
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	80.45	74.04	67.62	61.21	54.80	48.39	41.97	41.97	41.97	41.97	41.97	41.97	41.97	41.97	41.97	41.97
Total	10,997.34	11,286.36	10,981.96	10,683.98	10,391.30	10,102.99	9,817.62	9,805.66	9,795.91	9,787.80	9,780.88	9,774.88	9,774.88	9,774.88	9,774.88	9,774.88

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024). 50%

Units are in MT CO_2e.

IBEC Project Operations Emissions

with

Local, Direct GHG Reduction Measures

Reduction Achieved through 50% of LEED Gold Project Design Features 50%

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	101.97	201.42	198.95	196.48	194.01	191.55	189.08	179.37	169.65	159.94	150.23	140.51	130.80	121.09	111.38
Water	18.61	36.77	36.34	35.91	35.47	35.04	34.61	32.90	31.19	29.48	27.78	26.07	24.36	22.65	20.95
Total	120.58	238.19	235.29	232.39	229.49	226.59	223.68	212.26	200.84	189.42	178.00	166.58	155.16	143.74	132.32

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	101.66	91.95	82.24	72.53	62.81	53.10	43.39	43.39	43.39	43.39	43.39	43.39	43.39	43.39	43.39	43.39
Water	19.24	17.53	15.82	14.12	12.41	10.70	8.99	8.99	8.99	8.99	8.99	8.99	8.99	8.99	8.99	8.99
Total	120.90	109.48	98.06	86.64	75.22	63.80	52.38	52.38	52.38	52.38	52.38	52.38	52.38	52.38	52.38	52.38

Proposed IBEC Project Operational Emissions

Total Reductions Achieved Through LEED 7,924.96

Project Condition: With TDM and 50% of reductions achieved through LEED Gold.

Emissions Source	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Energy (Electricity and Natural Gas)	2,823.35	5,575.75	5,506.53	5,437.31	5,368.09	5,298.87	5,229.66	4,957.17	4,684.68	4,412.20	4,139.71	3,867.22	3,594.75	3,322.29	3,049.82
Area	0.04	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	5,128.01	9,856.18	9,515.32	9,215.05	8,949.78	8,713.80	8,503.93	8,337.82	8,175.13	8,032.86	7,908.79	7,802.12	7,712.38	7,637.54	7,575.50
Stationary	43.55	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	92.60	183.08	181.02	178.96	176.90	174.83	172.77	164.65	156.53	148.41	140.29	132.17	124.05	115.93	107.81
Total	8,690.96	16,909.10	16,496.95	16,125.41	15,788.85	15,481.60	15,200.44	14,753.72	14,310.43	13,887.55	13,482.87	13,095.60	12,725.27	12,369.84	12,027.21

Emissions Source	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
Energy (Electricity and Natural Gas)	2,777.35	2,504.88	2,232.40	1,959.91	1,687.42	1,414.94	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45	1,142.45
Area	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15
Mobile (On-Road)	7,550.53	7,505.30	7,470.09	7,441.30	7,417.81	7,398.68	7,382.50	7,370.54	7,360.79	7,352.68	7,345.76	7,339.76	7,339.76	7,339.76	7,339.76	7,339.76
Stationary	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11	87.11
Solid Waste	603.42	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83	1,206.83
Water	99.69	91.57	83.45	75.33	67.21	59.09	50.97	50.97	50.97	50.97	50.97	50.97	50.97	50.97	50.97	50.97
Total	11,118.24	11,395.84	11,080.03	10,770.62	10,466.52	10,166.79	9,870.01	9,858.04	9,848.29	9,840.19	9,833.26	9,827.26	9,827.26	9,827.26	9,827.26	9,827.26

Note: For 2024 operational year, only 50 percent of the emissions are accounted (first day of operation of the proposed IBEC Project is anticipated to be July 1, 2024). 50%

Units are in MT CO_2e.

Mobile Source Emission Estimates

Mobile Source Emissions

IBEC Average Event Attendees - Light Duty Vehicles (Auto and TNC Trips)

Project Condition (Average Event Attendees) without Transporation Demand Management Measures (Tables 1 and 2)						
		Estimated Annual Trips				
		Weekday		Weekend		Total
Land Use	Size	Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	89,184	0	55,980	0	145,164
Arena (attendees)	Varies	791,618	0	470,182	0	1,261,800
LA Clippers Organization Office	275 EMP	47,084	33,834	0	0	80,918
LA Clippers Team Practice & Training Facility	54 EMP	9,247	4,861	0	0	14,108
Sports Medicine Clinic	25 TSF	100,922	72,523	0	0	173,445
Community Space	15 TSF	39,426	28,013	0	0	67,439
Full-Service Plaza Restaurant/Bar	7 TSF	47,800	49,058	30,282	6,249	133,389
Full-Service Rooftop Restaurant/Lounge	8 TSF	54,629	56,067	34,607	7,141	152,444
Coffee Shop	5 TSF	139,047	131,728	88,085	16,778	375,638
Quick-Service Restaurant (no drive thru)	4 TSF	102,680	105,383	65,047	13,422	286,532
LA Clippers Team Store	7 TSF	13,279	14,152	9,326	1,998	38,755
Other General Retail & Service	17 TSF	32,248	34,370	22,648	4,853	94,119
Hotel (no full service; no restaurant)	150 RM	91,656	65,124	54,873	7,839	219,492
	Total	1,558,820	595,113	831,030	58,280	3,043,243

Project Condition (Average Event Attendees) with Transporation Demand Management Measures (Tables 3 and 4)						
		Estimated Annual Trips				
		Weekday		Weekend		Total
Land Use	Size	Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	62,514	0	39,242	0	101,756
Arena (attendees)	Varies	556,366	0	326,014	0	882,380
LA Clippers Organization Office	275 EMP	44,729	32,143	0	0	76,872
LA Clippers Team Practice & Training Facility	54 EMP	8,785	4,618	0	0	13,403
Sports Medicine Clinic	25 TSF	100,922	68,897	0	0	169,819
Community Space	15 TSF	39,426	26,612	0	0	66,038
Full-Service Plaza Restaurant/Bar	7 TSF	48,963	46,605	30,954	5,937	132,359
Full-Service Rooftop Restaurant/Lounge	8 TSF	55,843	53,264	35,376	6,784	151,267
Coffee Shop	5 TSF	141,364	125,142	89,553	15,939	371,998
Quick-Service Restaurant (no drive thru)	4 TSF	104,962	100,114	66,493	12,751	284,320
LA Clippers Team Store	7 TSF	13,611	13,444	9,559	1,898	38,512
Other General Retail & Service	17 TSF	33,054	32,652	23,214	4,610	93,530
Hotel (no full service; no restaurant)	150 RM	91,656	65,124	54,873	7,839	219,492
	Total	1,302,095	568,615	675,278	55,758	2,601,746

GHG Emissions without TDM Measures

Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Arena (employees)	605.93	581.70	560.97	542.74	526.66	512.38	499.71	489.62	479.73	471.10	463.59	457.15	451.67	447.10	443.32	440.22	437.68	435.66	434.04	432.75	431.72	430.87	430.20	429.66	429.22	428.86	428.55
Arena (attendees)	7735.54	7426.18	7161.56	6928.81	6723.54	6541.26	6379.47	6250.60	6124.42	6014.26	5918.39	5836.19	5766.18	5707.87	5659.61	5619.96	5587.60	5561.85	5541.14	5524.58	5511.46	5500.65	5492.03	5485.16	5479.58	5474.92	5470.99
LA Clippers Organization Office	337.76	324.25	312.70	302.54	293.57	285.61	278.55	272.92	267.41	262.60	258.42	254.83	251.77	249.23	247.12	245.39	243.97	242.85	241.95	241.22	240.65	240.18	239.80	239.50	239.26	239.05	238.88
LA Clippers Team Practice & Training Facility	58.89	56.53	54.52	52.75	51.18	49.80	48.57	47.58	46.62	45.78	45.06	44.43	43.90	43.45	43.09	42.78	42.54	42.34	42.18	42.06	41.96	41.87	41.81	41.76	41.71	41.68	41.65
Sports Medicine Clinic	413.70	397.16	383.01	370.56	359.58	349.83	341.18	334.29	327.54	321.65	316.52	312.12	308.38	305.26	302.68	300.56	298.83	297.45	296.34	295.46	294.76	294.18	293.72	293.35	293.05	292.80	292.59
Community Space	160.86	154.42	148.92	144.08	139.81	136.02	132.66	129.98	127.35	125.06	123.07	121.36	119.90	118.69	117.69	116.88	116.19	115.66	115.22	114.88	114.61	114.38	114.20	114.06	113.94	113.85	113.77
Full-Service Plaza Restaurant/Bar	318.16	305.44	294.55	284.98	276.54	269.04	262.39	257.09	251.90	247.37	243.42	240.04	237.16	234.76	232.78	231.15	229.82	228.76	227.91	227.22	226.69	226.24	225.89	225.60	225.37	225.18	225.02
Full-Service Rooftop Restaurant/Lounge	363.61	349.07	336.63	325.69	316.04	307.47	299.87	293.81	287.88	282.70	278.20	274.33	271.04	268.30	266.03	264.17	262.65	261.44	260.46	259.68	259.07	258.56	258.15	257.83	257.57	257.35	257.17
Coffee Shop	895.98	860.14	829.49	802.54	778.76	757.65	738.91	723.98	709.37	696.61	685.50	675.98	667.87	661.12	655.53	650.94	647.19	644.21	641.81	639.89	638.37	637.12	636.12	635.32	634.68	634.14	633.68
Quick-Service Restaurant (no drive thru)	683.44	656.11	632.73	612.16	594.03	577.92	563.63	552.24	541.10	531.36	522.89	515.63	509.45	504.29	500.03	496.53	493.67	491.39	489.56	488.10	486.94	485.99	485.22	484.62	484.12	483.71	483.37
LA Clippers Team Store	92.44	88.74	85.58	82.80	80.35	78.17	76.23	74.69	73.19	71.87	70.72	69.74	68.91	68.21	67.63	67.16	66.77	66.46	66.22	66.02	65.86	65.73	65.63	65.55	65.48	65.42	65.38
Other General Retail & Service	224.49	215.52	207.84	201.08	195.12	189.83	185.14	181.40	177.74	174.54	171.76	169.37	167.34	165.65	164.25	163.10	162.16	161.41	160.81	160.33	159.95	159.63	159.38	159.19	159.02	158.89	158.77
Hotel (no full service; no restaurant)	523.53	502.60	484.69	468.94	455.04	442.71	431.76	423.04	414.50	407.04	400.55	394.96	390.25	386.30	383.04	380.35	378.16	376.42	375.02	373.90	373.01	372.28	371.70	371.23	370.85	370.54	370.27
Total	12414.33	11917.86	11493.19	11119.66	10790.22	10497.70	10238.06	10031.24	9828.74	9651.95	9498.09	9366.17	9253.82	9160.24	9082.79	9019.17	8967.23	8925.90	8892.66	8866.09	8845.03	8827.68	8813.86	8802.82	8793.87	8786.39	8780.09

GHG Emissions with TDM Measures

Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Arena (employees)	424.74	407.76	393.23	380.45	369.17	359.17	350.29	343.21	336.28	330.23	324.97	320.45	316.61	313.41	310.76	308.58	306.80	305.39	304.25	303.34	302.62	302.03	301.56	301.18	300.87	300.62	300.40
Arena (attendees)	5409.48	5193.15	5008.10	4845.34	4701.79	4574.32	4461.18	4371.06	4282.82	4205.79	4138.75	4081.26	4032.31	3991.53	3957.78	3930.06	3907.43	3889.42	3874.93	3863.36	3854.18	3846.62	3840.59	3835.79	3831.88	3828.63	3825.88
LA Clippers Organization Office	320.87	308.04	297.06	287.41	278.89	271.33	264.62	259.28	254.04	249.47	245.50	242.09	239.18	236.76	234.76	233.12	231.78	230.71	229.85	229.16	228.62	228.17	227.81	227.53	227.28	227.10	226.94
LA Clippers Team Practice & Training Facility	55.95	53.71	51.79	50.11	48.63	47.31	46.14	45.21	44.29	43.50	42.80	42.21	41.70	41.28	40.93	40.65	40.41	40.22	40.08	39.96	39.86	39.78	39.72	39.67	39.63	39.60	39.57
Sports Medicine Clinic	405.05	388.86	375.00	362.81	352.06	342.52	334.05	327.30	320.69	314.92	309.90	305.60	301.93	298.88	296.35	294.28	292.58	291.23	290.15	289.28	288.60	288.03	287.58	287.22	286.93	286.68	286.48
Community Space	157.51	151.22	145.83	141.09	136.91	133.20	129.90	127.28	124.71	122.47	120.51	118.84	117.41	116.23	115.24	114.44	113.78	113.25	112.83	112.49	112.23	112.01	111.83	111.69	111.58	111.48	111.40
Full-Service Plaza Restaurant/Bar	315.70	303.08	292.28	282.78	274.40	266.96	260.36	255.10	249.95	245.45	241.54	238.19	235.33	232.95	230.98	229.36	228.04	226.99	226.15	225.47	224.93	224.49	224.14	223.86	223.63	223.44	223.28
Full-Service Rooftop Restaurant/Lounge	360.80	346.37	334.03	323.18	313.60	305.10	297.55	291.54	285.66	280.52	276.05	272.21	268.95	266.23	263.98	262.13	260.62	259.42	258.45	257.68	257.07	256.56	256.16	255.84	255.58	255.36	255.18
Coffee Shop	887.29	851.81	821.46	794.76	771.21	750.31	731.75	716.97	702.49	689.86	678.86	669.43	661.40	654.71	649.18	644.63	640.92	637.98	635.59	633.69	632.18	630.94	629.96	629.17	628.53	627.99	627.54
Quick-Service Restaurant (no drive thru)	678.16	651.04	627.84	607.44	589.44	573.46	559.28	547.98	536.92	527.26	518.86	511.65	505.51	500.40	496.17	492.69	489.86	487.60	485.78	484.33	483.18	482.23	481.48	480.88	480.39	479.98	479.63
LA Clippers Team Store	91.86	88.19	85.04	82.28	79.84	77.68	75.76	74.23	72.73	71.42	70.28	69.30	68.47	67.78	67.21	66.74	66.35	66.05	65.80	65.60	65.45	65.32	65.22	65.14	65.07	65.01	64.97
Other General Retail & Service	223.09	214.17	206.54	199.82	193.90	188.65	183.98	180.26	176.62	173.45	170.68	168.31	166.29	164.61	163.22	162.08	161.14	160.40	159.80	159.33	158.95	158.64	158.39	158.19	158.03	157.89	157.78
Hotel (no full service; no restaurant)	523.53	502.60	484.69	468.94	455.04	442.71	431.76	423.04	414.50	407.04	400.55	394.96	390.25	386.30	383.04	380.35	378.16	376.42	375.02	373.90	373.01	372.28	371.70	371.23	370.85	370.54	370.27
Total	9854.05	9459.97	9122.88	8826.39	8564.90	8332.70	8126.61	7962.44	7801.70	7661.37	7539.25	7434.53	7345.35	7271.07	7209.60	7159.09	7117.87	7085.07	7058.68	7037.59	7020.87	7007.10	6996.13	6987.37	6980.26	6974.33	6969.32

Conversion Factors	
gram	MT
1000000	1

Assumptions	miles	Assumptions
Attendees Trip Length (mi)	21.59	miles to zip code data to IBEC
Employee Trip Lengths (mi)	14.7	miles; Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	miles; Commercial-Customer CalEEMod Defaults

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
EMFAC2014 CO_2 Emission Factors (g/m)	283.953539	272.5977349	262.8841774	254.340579	246.805314	240.1144113	234.1755393	229.4450523	224.8131959	220.7694575	217.2503088	214.233836	211.6630636	209.5225932	207.7511705	206.2957846	205.1078838	204.1626155	203.4021776	202.7945932	202.3128631	201.9159511	201.5997201	201.3474186	201.1425829	200.9715991	200.8273325
EMFAC2014 CO_2 Emission Factors (MT/mile)	0.00028395	0.000272598	0.000262884	0.000254341	0.000246805	0.000240114	0.000234176	0.000229445	0.000224813	0.000220769	0.00021725	0.000214233	0.000211663	0.000209523	0.000207751	0.000206296	0.000205108	0.000204163	0.000203402	0.000202795	0.000202313	0.000201916	0.0002016	0.000201347	0.000201143	0.000200972	0.000200827

Mobile Source Emissions

IBEC Average Event Attendees - Other Vehicles (Shuttles, Vanpools, Charter Coaches, Minibuses)

Project Condition (Average Event Attendees) without Transporation Demand Management Measures (Tables 1 and 2)						
	Size	Estimated Annual Trips				
		Weekday		Weekend		Total
Land Use		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	2,180	0	1,280	0	3,460
	Total	2,180	0	1,280	0	3,460

Project Condition (Average Event Attendees) with Transporation Demand Management Measures (Tables 3 and 4)						
	Size	Estimated Annual Trips				
		Weekday		Weekend		Total
Land Use		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	3,482	0	2,188	0	5,670
Arena (attendees)	Varies	8,004	0	4,986	0	12,990
	Total	11,486	0	7,174	0	18,660

GHG Emissions without TDM Measures																											
Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Arena (employees)	79.09756	77.92627083	77.15897068	76.39167053	75.62437038	74.85707022	74.08977	73.68411106	73.27845205	72.87279304	72.46713404	72.06147503	71.901692	71.74191	71.582127	71.422345	71.262562	71.16894	71.075318	70.981696	70.888075	70.794453	70.72656	70.65867	70.59078	70.52289	70.4550051
Total	79.10	77.93	77.16	76.39	75.62	74.86	74.09	73.68	73.28	72.87	72.47	72.06	71.90	71.74	71.58	71.42	71.26	71.17	71.08	70.98	70.89	70.79	70.73	70.66	70.59	70.52	70.46

GHG Emissions with TDM Measures																											
Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Arena (employees)	129.61941	127.6999872	126.4425907	125.1851942	123.9277977	122.6704012	121.413	120.7482398	120.0834749	119.41871	118.7539451	118.0891802	117.82734	117.5655	117.30366	117.04182	116.77998	116.62656	116.47314	116.31972	116.1663	116.01287	115.9016	115.7904	115.6791	115.5679	115.456612
Arena (attendees)	139.38881	137.3247136	135.9725473	134.6203811	133.2682148	131.9160485	130.56388	129.8490142	129.134146	128.4192779	127.7044098	126.9895417	126.70797	126.42639	126.14482	125.86324	125.58167	125.41668	125.2517	125.08671	124.92173	124.75675	124.6371	124.5175	124.3978	124.2782	124.158558
Total	269.01	265.02	262.42	259.81	257.20	254.59	251.98	250.60	249.22	247.84	246.46	245.08	244.54	243.99	243.45	242.91	242.36	242.04	241.72	241.41	241.09	240.77	240.54	240.31	240.08	239.85	239.62

Conversion Factors	
gram	MT
1000000	1

Assumptions	miles	Assumptions
Attendees Trip Length (mi)	6.9	miles; Commercial-Nonwork CalEEMod Defaults
Employee Trip Lengths (mi)	14.7	miles; Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	miles; Commercial-Customer CalEEMod Defaults

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
EMFAC2014 CO_2 Emission Factors (g/mi)	1,555.14	1,532.11	1517.025887	1501.939966	1486.854044	1471.768122	1,456.68	1448.706521	1440.730841	1432.755162	1424.779482	1,416.80	1413.6623	1410.5208	1407.3793	1404.2378	1,401.10	1399.2556	1397.4149	1395.5742	1393.7335	1,391.89	1390.558	1389.223	1387.888	1386.554	1,385.22
EMFAC2014 CO_2 Emission Factors (MT/mi)	0.0015551	0.001532112	0.001517026	0.00150194	0.001486854	0.001471768	0.0014567	0.001448707	0.001440731	0.001432755	0.001424779	0.001416804	0.0014137	0.0014105	0.0014074	0.0014042	0.0014011	0.0013993	0.0013974	0.0013956	0.0013937	0.0013919	0.001391	0.001389	0.001388	0.001387	0.00138522

Mobile Sources - Delivery Trips

Trip Type	Daily Delivery Trips	Total Vehicle Trips per Year	Trip Length	Total VMT	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Delivery Trips	50	25,987	6.9	179,307.43	132.96	131.19	130.02	128.85	127.68	126.51	125.35	124.78	124.21	123.65	123.08	122.51	122.49	122.47	122.45

Notes:
Daily delivery trips assumes 5 days per week for 52 weeks per year
CalEEMod Default Trip Length for Commercial-Nonwork trips in Los Angeles County
Delivery trips associated with the main event center are assumed to be 8 per day.
Delivery trips for all other ancillary land uses based NCHRP Synthesis 298: 2001

2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
122.43	122.41	122.61	122.82	123.02	123.22	123.43	123.81	124.20	124.58	124.97	125.36	125.36	125.36	125.36	125.36

	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
EMFAC2014 CO_2 Emission Factors (gram per mile)	741.4965416	731.6247535	725.1112381	718.5977	712.0842	705.5707	699.0572	695.8966	692.736	689.5755	686.4149	683.2543	683.1398648	683.0254	682.9109
EMFAC2014 CO_2 Emission Factors (MT per mile)	0.000741497	0.000731625	0.000725111	0.000719	0.000712	0.000706	0.000699	0.000696	0.000693	0.00069	0.000686	0.000683	0.00068314	0.000683	0.000683

2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054
682.7964676	682.6820018	683.8153	684.9487	686.082	687.2153	688.3487	690.5012	692.6538	694.8063	696.9589	699.1114719	699.1115	699.1115	699.1115	699.1115
0.000682796	0.000682682	0.000684	0.000685	0.000686	0.000687	0.000688	0.000691	0.000693	0.000695	0.000697	0.000699111	0.000699	0.000699	0.000699	0.000699

Conversion Factors	
gram	MT
1000000	1

Delivery Trips Assumptions				
Land Use	Truck Trip Rate per 1,000 SF	Land Use (SF)	1000 SF	Trips
Fast Food	0.77	9,000.00	9.00	6.93
Hotel	0.034	217,800.00	217.80	7.41
Quality Restaurant	1.209	15,000.00	15.00	18.14
Retail	0.396	24,000.00	24.00	9.50
Source: NCHRP 2001				

Mobile Source Emissions
Arena rows include trips associated with LA Clippers NBA Games only.

Existing (Average Event Attendees)						
	Size	Estimated Annual Trips				
		Weekday		Weekend		Total
Land Use		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	44,282	0	19,534	0	63,816
Arena (attendees)	Varies	410,158	0	164,736	0	574,894
LA Clippers Organization Office	275 EMP	25,506	45,042	0	0	70,548
LA Clippers Team Practice & Training Facility	54 EMP	5,010	7,300	0	0	12,310
	Total	484,956	52,342	184,270	0	721,568

Existing NBA Games GHG EMISSIONS
2018
328.856159
3905.715588
363.5474538
63.43580478
4,661.56

Conversion Factors	
gram	MT
1000000	1

Assumptions	miles	Assumptions
Attendees Trip Length (mi)	19.38	miles to zip code data to Staples
Employee Trip Lengths (mi)	14.7	miles; Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	miles; Commercial-Customer CalEEMod Defaults

	2018
EMFAC2014 CO_2 Emission Factors (g/mi)	350.5573
EMFAC2014 CO_2 Emission Factors (MT/mi)	0.000351

Mobile Source Emissions
Arena rows include trips associated with 50% market-shifted events only

Existing (Average Event Attendees) (Tables 1 and 2)						
	Size	Estimated Annual Trips				
		Weekday		Weekend		Total
Land Use		Days with Events	Days without Events	Days with Events	Days without Events	
Arena (employees)	Varies	12,628	0	11,920	0	24,548
Arena (attendees)	Varies	120,982	0	108,488	0	229,470
LA Clippers Organization Office	275 EMP	25,506	45,042	0	0	70,548
LA Clippers Team Practice & Training Facility	54 EMP	5,010	7,300	0	0	12,310
	Total	164,126	52,342	120,408	0	336,876

Existing Market Shifted GHG EMISSIONS
2018
126.5005797
1558.973578
363.5474538
63.43580478
2,112.46

Conversion Factors	
gram	MT
1000000	1

Assumptions	miles	Assumptions
Attendees Trip Length (mi)	19.38	miles to zip code data to Staples
Employee Trip Lengths (mi)	14.7	miles; Home-Work CalEEMod Defaults
Commercial Trip Lengths (mi)	8.4	miles; Commercial-Customer CalEEMod Defaults

	2018
EMFAC2014 CO_2 Emission Factors (g/mi)	350.5573
EMFAC2014 CO_2 Emission Factors (MT/mi)	0.000351

Water Consumption Estimates

Water Consumption Estimates by Land Use

		Estimated Demand (Mgal / year)	
Component	Size	Indoor	Outdoor
Arena	915,000 SF	7.42002	0.852384
Restaurant / Bar / Lounge	15,000 SF	4.55301	0.290617
Office	71,000 SF	12.61910	7.734280
Quick-Service Restaurant and Coffee Shop	9,000 SF	2.73180	0.174370
Practice and Training Facility	85,000 SF	5.02717	3.081170
Sports Medicine Clinic	25,000 SF	3.13701	0.597526
Team Store and Retail	24,000 SF	1.77774	1.089580
Community Space	15,000 SF	2.97990	1.826390
Hotel	150 rooms	3.80502	0.422779
TOTAL		44.05077	16.069096

Notes: SF = square feet; Mgal= million gallons

CalEEMod Run Outputs

IBEC Project Operations
CalEEMod Run Outputs

IBEC Operations

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	476.2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	476.2
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	5.7383	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	5,843.6293	5,843.6293	0.0226	0.0216	5,850.6345
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	13.9753	162.4569	176.4321	1.4354	0.0339	222.4170
Total	**5.9949**	**1.6985**	**1.3318**	**7.1700e-003**	**0.0000**	**0.1028**	**0.1028**	**0.0000**	**0.1028**	**0.1028**	**501.1008**	**6,070.0470**	**6,571.1478**	**30.2556**	**0.0555**	**7,344.0781**

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	tons/yr										MT/yr					
Area	5.7383	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	5,436.2541	5,436.2541	0.0209	0.0200	5,442.7467
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	106.0074	115.7901	1.0048	0.0237	147.9795
Total	**5.9862**	**1.6193**	**1.2652**	**6.6900e-003**	**0.0000**	**0.0968**	**0.0968**	**0.0000**	**0.0968**	**0.0968**	**496.9082**	**5,606.2224**	**6,103.1306**	**29.8233**	**0.0438**	**6,861.7528**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.15**	**4.67**	**5.00**	**6.69**	**0.00**	**5.86**	**5.86**	**0.00**	**5.86**	**5.86**	**0.84**	**7.64**	**7.12**	**1.43**	**21.17**	**6.57**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

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
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
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
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	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
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,343.6839	4,343.6839	0.0000	0.0000	4,343.6839
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,664.7961	4,664.7961	0.0000	0.0000	4,664.7961
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

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	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1191**	**1.0829**	**0.9096**	**6.4900e-003**		**0.0823**	**0.0823**		**0.0823**	**0.0823**	**0.0000**	**1,178.8332**	**1,178.8332**	**0.0226**	**0.0216**	**1,185.8384**

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	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1104**	**1.0036**	**0.8430**	**6.0200e-003**		**0.0763**	**0.0763**		**0.0763**	**0.0763**	**0.0000**	**1,092.5702**	**1,092.5702**	**0.0209**	**0.0200**	**1,099.0628**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.7687e+007	3,820.3933	0.0000	0.0000	3,820.3933
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	425.2863	0.0000	0.0000	425.2863
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	9.5256	0.0000	0.0000	9.5256
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	409.5908	0.0000	0.0000	409.5908
Total		**4,664.7961**	**0.0000**	**0.0000**	**4,664.7961**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	3,728.6456	0.0000	0.0000	3,728.6456
Enclosed Parking Structure	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Fast Food Restaurant w/o Drive Thru	-83461.5	-18.0278	0.0000	0.0000	-18.0278
General Office Building	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Government (Civic Center)	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Health Club	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Hotel	1.82512e+006	394.2271	0.0000	0.0000	394.2271
Medical Office Building	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Other Non-Asphalt Surfaces	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Parking Lot	-39361.5	-8.5021	0.0000	0.0000	-8.5021
Quality Restaurant	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Strip Mall	-83461.5	-18.0278	0.0000	0.0000	-18.0278
Unenclosed Parking Structure	1.81279e+006	391.5630	0.0000	0.0000	391.5630
Total		**4,343.6839**	**0.0000**	**0.0000**	**4,343.6839**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7383	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484
Unmitigated	5.7383	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-003	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484
Total	**5.7383**	**6.5000e-004**	**0.0715**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1484**

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.6000e-003	6.5000e-004	0.0715	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1484
Total	**5.7383**	**6.5000e-004**	**0.0715**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1484**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	115.7901	1.0048	0.0237	147.9795
Unmitigated	176.4321	1.4354	0.0339	222.4170

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	25.2687	0.2418	5.7100e-003	33.0145
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	8.9684	0.0890	2.1000e-003	11.8202
General Office Building	12.6191 / 7.73428	58.0557	0.4112	9.7100e-003	71.2289
Government (Civic Center)	2.9799 / 1.82639	13.7094	0.0971	2.2900e-003	16.8201
Health Club	5.02717 / 3.08117	23.1281	0.1638	3.8700e-003	28.3760
Hotel	3.80502 / 0.422779	12.9235	0.1240	2.9300e-003	16.8956
Medical Office Building	3.13701 / 0.597526	11.2522	0.1022	2.4100e-003	14.5269
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	14.9474	0.1484	3.5000e-003	19.7003
Strip Mall	1.77774 / 1.08958	8.1787	0.0579	1.3700e-003	10.0345
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**176.4322**	**1.4354**	**0.0339**	**222.4170**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	17.2790	0.1693	4.0000e-003	22.7011
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	6.1942	0.0623	1.4700e-003	8.1905
General Office Building	8.83337 / 3.86714	36.9269	0.2878	6.8000e-003	46.1481
Government (Civic Center)	2.08593 / 0.913194	8.7200	0.0680	1.6000e-003	10.8975
Health Club	3.51902 / 1.54058	14.7109	0.1147	2.7100e-003	18.3844
Hotel	2.66351 / 0.21139	8.8435	0.0868	2.0500e-003	11.6240
Medical Office Building	2.19591 / 0.298763	7.5897	0.0716	1.6900e-003	9.8820
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	10.3237	0.1039	2.4500e-003	13.6507
Strip Mall	1.24442 / 0.544791	5.2022	0.0406	9.6000e-004	6.5012
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**115.7901**	**1.0048**	**0.0237**	**147.9795**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

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	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Total	**0.1375**	**0.6150**	**0.3507**	**6.6000e-004**		**0.0202**	**0.0202**		**0.0202**	**0.0202**	**0.0000**	**63.8216**	**63.8216**	**8.9500e-003**	**0.0000**	**64.0453**

11.0 Vegetation

IBEC Operations

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2025
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	468.7	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	468.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	5.7382	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	5,770.1602	5,770.1602	0.0226	0.0216	5,777.1654
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	13.9753	159.8982	173.8735	1.4354	0.0339	219.8584
Total	**5.9949**	**1.6985**	**1.3317**	**7.1700e-003**	**0.0000**	**0.1028**	**0.1028**	**0.0000**	**0.1028**	**0.1028**	**501.1008**	**5,994.0193**	**6,495.1201**	**30.2556**	**0.0555**	**7,268.0504**

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	tons/yr										MT/yr					
Area	5.7382	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	5,367.8425	5,367.8425	0.0209	0.0200	5,374.3351
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	104.3378	114.1205	1.0048	0.0237	146.3099
Total	**5.9862**	**1.6193**	**1.2651**	**6.6900e-003**	**0.0000**	**0.0968**	**0.0968**	**0.0000**	**0.0968**	**0.0968**	**496.9082**	**5,536.1411**	**6,033.0494**	**29.8233**	**0.0438**	**6,791.6715**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.15**	**4.67**	**5.00**	**6.69**	**0.00**	**5.86**	**5.86**	**0.00**	**5.86**	**5.86**	**0.84**	**7.64**	**7.11**	**1.43**	**21.17**	**6.55**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

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
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
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
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	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
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,275.2723	4,275.2723	0.0000	0.0000	4,275.2723
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,591.3270	4,591.3270	0.0000	0.0000	4,591.3270
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

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	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1191**	**1.0829**	**0.9096**	**6.4900e-003**		**0.0823**	**0.0823**		**0.0823**	**0.0823**	**0.0000**	**1,178.8332**	**1,178.8332**	**0.0226**	**0.0216**	**1,185.8384**

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	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1104**	**1.0036**	**0.8430**	**6.0200e-003**		**0.0763**	**0.0763**		**0.0763**	**0.0763**	**0.0000**	**1,092.5702**	**1,092.5702**	**0.0209**	**0.0200**	**1,099.0628**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.7687e+007	3,760.2234	0.0000	0.0000	3,760.2234
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	418.5882	0.0000	0.0000	418.5882
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	9.3756	0.0000	0.0000	9.3756
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	403.1398	0.0000	0.0000	403.1398
Total		**4,591.3270**	**0.0000**	**0.0000**	**4,591.3270**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	3,669.9207	0.0000	0.0000	3,669.9207
Enclosed Parking Structure	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Fast Food Restaurant w/o Drive Thru	-83461.5	-17.7438	0.0000	0.0000	-17.7438
General Office Building	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Government (Civic Center)	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Health Club	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Hotel	1.82512e+006	388.0182	0.0000	0.0000	388.0182
Medical Office Building	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Other Non-Asphalt Surfaces	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Parking Lot	-39361.5	-8.3682	0.0000	0.0000	-8.3682
Quality Restaurant	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Strip Mall	-83461.5	-17.7438	0.0000	0.0000	-17.7438
Unenclosed Parking Structure	1.81279e+006	385.3960	0.0000	0.0000	385.3960
Total		**4,275.2723**	**0.0000**	**0.0000**	**4,275.2723**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7382	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Unmitigated	5.7382	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5800e-003	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Total	**5.7382**	**6.5000e-004**	**0.0714**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1483**

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5800e-003	6.5000e-004	0.0714	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Total	**5.7382**	**6.5000e-004**	**0.0714**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1483**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	114.1205	1.0048	0.0237	146.3099
Unmitigated	173.8735	1.4354	0.0339	219.8584

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	24.9078	0.2418	5.7100e-003	32.6536
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	8.8408	0.0890	2.1000e-003	11.6926
General Office Building	12.6191 / 7.73428	57.2044	0.4112	9.7100e-003	70.3776
Government (Civic Center)	2.9799 / 1.82639	13.5084	0.0971	2.2900e-003	16.6191
Health Club	5.02717 / 3.08117	22.7890	0.1638	3.8700e-003	28.0369
Hotel	3.80502 / 0.422779	12.7390	0.1240	2.9300e-003	16.7111
Medical Office Building	3.13701 / 0.597526	11.0906	0.1022	2.4100e-003	14.3654
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	14.7347	0.1484	3.5000e-003	19.4877
Strip Mall	1.77774 / 1.08958	8.0588	0.0579	1.3700e-003	9.9146
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**173.8735**	**1.4354**	**0.0339**	**219.8584**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	17.0328	0.1693	4.0000e-003	22.4549
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	6.1062	0.0623	1.4700e-003	8.1024
General Office Building	8.83337 / 3.86714	36.3895	0.2878	6.8000e-003	45.6107
Government (Civic Center)	2.08593 / 0.913194	8.5931	0.0680	1.6000e-003	10.7706
Health Club	3.51902 / 1.54058	14.4968	0.1147	2.7100e-003	18.1703
Hotel	2.66351 / 0.21139	8.7176	0.0868	2.0500e-003	11.4980
Medical Office Building	2.19591 / 0.298763	7.4812	0.0716	1.6900e-003	9.7735
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	10.1770	0.1039	2.4500e-003	13.5041
Strip Mall	1.24442 / 0.544791	5.1264	0.0406	9.6000e-004	6.4255
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**114.1205**	**1.0048**	**0.0237**	**146.3099**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

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	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Total	**0.1375**	**0.6150**	**0.3507**	**6.6000e-004**		**0.0202**	**0.0202**		**0.0202**	**0.0202**	**0.0000**	**63.8216**	**63.8216**	**8.9500e-003**	**0.0000**	**64.0453**

11.0 Vegetation

IBEC Operations

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2030
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	432.11	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	432.11
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	5,411.7291	5,411.7291	0.0226	0.0216	5,418.7343
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	13.9753	147.4154	161.3907	1.4354	0.0339	207.3756
Total	**5.9948**	**1.6985**	**1.3315**	**7.1700e-003**	**0.0000**	**0.1028**	**0.1028**	**0.0000**	**0.1028**	**0.1028**	**501.1008**	**5,623.1054**	**6,124.2062**	**30.2556**	**0.0555**	**6,897.1364**

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	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	5,034.0848	5,034.0848	0.0209	0.0200	5,040.5774
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	96.1925	105.9752	1.0048	0.0237	138.1646
Total	**5.9861**	**1.6193**	**1.2650**	**6.6900e-003**	**0.0000**	**0.0968**	**0.0968**	**0.0000**	**0.0968**	**0.0968**	**496.9082**	**5,194.2381**	**5,691.1464**	**29.8233**	**0.0438**	**6,449.7684**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.15**	**4.67**	**5.00**	**6.69**	**0.00**	**5.86**	**5.86**	**0.00**	**5.86**	**5.86**	**0.84**	**7.63**	**7.07**	**1.43**	**21.17**	**6.49**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

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
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
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
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	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
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	3,941.5146	3,941.5146	0.0000	0.0000	3,941.5146
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,232.8959	4,232.8959	0.0000	0.0000	4,232.8959
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

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	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1191**	**1.0829**	**0.9096**	**6.4900e-003**		**0.0823**	**0.0823**		**0.0823**	**0.0823**	**0.0000**	**1,178.8332**	**1,178.8332**	**0.0226**	**0.0216**	**1,185.8384**

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	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1104**	**1.0036**	**0.8430**	**6.0200e-003**		**0.0763**	**0.0763**		**0.0763**	**0.0763**	**0.0000**	**1,092.5702**	**1,092.5702**	**0.0209**	**0.0200**	**1,099.0628**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.7687e+007	3,466.6740	0.0000	0.0000	3,466.6740
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	385.9103	0.0000	0.0000	385.9103
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	8.6437	0.0000	0.0000	8.6437
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	371.6679	0.0000	0.0000	371.6679
Total		**4,232.8959**	**0.0000**	**0.0000**	**4,232.8959**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	3,383.4210	0.0000	0.0000	3,383.4210
Enclosed Parking Structure	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Fast Food Restaurant w/o Drive Thru	-83461.5	-16.3586	0.0000	0.0000	-16.3586
General Office Building	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Government (Civic Center)	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Health Club	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Hotel	1.82512e+006	357.7268	0.0000	0.0000	357.7268
Medical Office Building	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Other Non-Asphalt Surfaces	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Parking Lot	-39361.5	-7.7149	0.0000	0.0000	-7.7149
Quality Restaurant	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Strip Mall	-83461.5	-16.3586	0.0000	0.0000	-16.3586
Unenclosed Parking Structure	1.81279e+006	355.3093	0.0000	0.0000	355.3093
Total		**3,941.5146**	**0.0000**	**0.0000**	**3,941.5146**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7382	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Unmitigated	5.7382	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Total	**5.7382**	**6.4000e-004**	**0.0713**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1483**

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5200e-003	6.4000e-004	0.0713	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1483
Total	**5.7382**	**6.4000e-004**	**0.0713**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1483**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	105.9752	1.0048	0.0237	138.1646
Unmitigated	161.3907	1.4354	0.0339	207.3756

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	23.1471	0.2418	5.7100e-003	30.8929
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	8.2183	0.0890	2.1000e-003	11.0701
General Office Building	12.6191 / 7.73428	53.0512	0.4112	9.7100e-003	66.2243
Government (Civic Center)	2.9799 / 1.82639	12.5276	0.0971	2.2900e-003	15.6383
Health Club	5.02717 / 3.08117	21.1344	0.1638	3.8700e-003	26.3823
Hotel	3.80502 / 0.422779	11.8387	0.1240	2.9300e-003	15.8108
Medical Office Building	3.13701 / 0.597526	10.3025	0.1022	2.4100e-003	13.5772
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	13.6972	0.1484	3.5000e-003	18.4501
Strip Mall	1.77774 / 1.08958	7.4737	0.0579	1.3700e-003	9.3295
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**161.3907**	**1.4354**	**0.0339**	**207.3756**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	15.8318	0.1693	4.0000e-003	21.2538
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	5.6769	0.0623	1.4700e-003	7.6731
General Office Building	8.83337 / 3.86714	33.7674	0.2878	6.8000e-003	42.9886
Government (Civic Center)	2.08593 / 0.913194	7.9739	0.0680	1.6000e-003	10.1514
Health Club	3.51902 / 1.54058	13.4522	0.1147	2.7100e-003	17.1257
Hotel	2.66351 / 0.21139	8.1030	0.0868	2.0500e-003	10.8834
Medical Office Building	2.19591 / 0.298763	6.9515	0.0716	1.6900e-003	9.2438
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	9.4615	0.1039	2.4500e-003	12.7885
Strip Mall	1.24442 / 0.544791	4.7571	0.0406	9.6000e-004	6.0561
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**105.9752**	**1.0048**	**0.0237**	**138.1646**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

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	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Total	**0.1375**	**0.6150**	**0.3507**	**6.6000e-004**		**0.0202**	**0.0202**		**0.0202**	**0.0202**	**0.0000**	**63.8216**	**63.8216**	**8.9500e-003**	**0.0000**	**64.0453**

11.0 Vegetation

IBEC Operations

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2035
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	288.07	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	288.07
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	4,000.7312	4,000.7312	0.0226	0.0216	4,007.7364
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	13.9753	98.2758	112.2511	1.4354	0.0339	158.2360
Total	**5.9948**	**1.6985**	**1.3315**	**7.1700e-003**	**0.0000**	**0.1028**	**0.1028**	**0.0000**	**0.1028**	**0.1028**	**501.1008**	**4,162.9679**	**4,664.0687**	**30.2556**	**0.0555**	**5,436.9988**

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	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	3,720.2162	3,720.2162	0.0209	0.0200	3,726.7088
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	64.1276	73.9103	1.0048	0.0237	106.0997
Total	**5.9861**	**1.6193**	**1.2649**	**6.6900e-003**	**0.0000**	**0.0968**	**0.0968**	**0.0000**	**0.0968**	**0.0968**	**496.9082**	**3,848.3046**	**4,345.2129**	**29.8233**	**0.0438**	**5,103.8349**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.15**	**4.67**	**5.00**	**6.69**	**0.00**	**5.86**	**5.86**	**0.00**	**5.86**	**5.86**	**0.84**	**7.56**	**6.84**	**1.43**	**21.17**	**6.13**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

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
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
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
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	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
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,627.6460	2,627.6460	0.0000	0.0000	2,627.6460
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,821.8980	2,821.8980	0.0000	0.0000	2,821.8980
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

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	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1191**	**1.0829**	**0.9096**	**6.4900e-003**		**0.0823**	**0.0823**		**0.0823**	**0.0823**	**0.0000**	**1,178.8332**	**1,178.8332**	**0.0226**	**0.0216**	**1,185.8384**

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	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1104**	**1.0036**	**0.8430**	**6.0200e-003**		**0.0763**	**0.0763**		**0.0763**	**0.0763**	**0.0000**	**1,092.5702**	**1,092.5702**	**0.0209**	**0.0200**	**1,099.0628**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.7687e+007	2,311.0893	0.0000	0.0000	2,311.0893
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	257.2706	0.0000	0.0000	257.2706
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	5.7624	0.0000	0.0000	5.7624
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	247.7758	0.0000	0.0000	247.7758
Total		**2,821.8980**	**0.0000**	**0.0000**	**2,821.8980**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	2,255.5879	0.0000	0.0000	2,255.5879
Enclosed Parking Structure	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Fast Food Restaurant w/o Drive Thru	-83461.5	-10.9056	0.0000	0.0000	-10.9056
General Office Building	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Government (Civic Center)	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Health Club	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Hotel	1.82512e+006	238.4818	0.0000	0.0000	238.4818
Medical Office Building	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Other Non-Asphalt Surfaces	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Parking Lot	-39361.5	-5.1432	0.0000	0.0000	-5.1432
Quality Restaurant	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Strip Mall	-83461.5	-10.9056	0.0000	0.0000	-10.9056
Unenclosed Parking Structure	1.81279e+006	236.8701	0.0000	0.0000	236.8701
Total		**2,627.6461**	**0.0000**	**0.0000**	**2,627.6461**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Unmitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Total	**5.7382**	**6.4000e-004**	**0.0712**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1482**

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Total	**5.7382**	**6.4000e-004**	**0.0712**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1482**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	73.9103	1.0048	0.0237	106.0997
Unmitigated	112.2511	1.4354	0.0339	158.2360

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	16.2159	0.2418	5.7100e-003	23.9617
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	5.7677	0.0890	2.1000e-003	8.6195
General Office Building	12.6191 / 7.73428	36.7016	0.4112	9.7100e-003	49.8747
Government (Civic Center)	2.9799 / 1.82639	8.6668	0.0971	2.2900e-003	11.7775
Health Club	5.02717 / 3.08117	14.6211	0.1638	3.8700e-003	19.8690
Hotel	3.80502 / 0.422779	8.2948	0.1240	2.9300e-003	12.2669
Medical Office Building	3.13701 / 0.597526	7.2000	0.1022	2.4100e-003	10.4748
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	9.6129	0.1484	3.5000e-003	14.3658
Strip Mall	1.77774 / 1.08958	5.1704	0.0579	1.3700e-003	7.0262
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**112.2511**	**1.4354**	**0.0339**	**158.2360**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	11.1037	0.1693	4.0000e-003	16.5257
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	3.9868	0.0623	1.4700e-003	5.9830
General Office Building	8.83337 / 3.86714	23.4455	0.2878	6.8000e-003	32.6667
Government (Civic Center)	2.08593 / 0.913194	5.5365	0.0680	1.6000e-003	7.7140
Health Club	3.51902 / 1.54058	9.3402	0.1147	2.7100e-003	13.0137
Hotel	2.66351 / 0.21139	5.6836	0.0868	2.0500e-003	8.4641
Medical Office Building	2.19591 / 0.298763	4.8665	0.0716	1.6900e-003	7.1588
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	6.6446	0.1039	2.4500e-003	9.9717
Strip Mall	1.24442 / 0.544791	3.3029	0.0406	9.6000e-004	4.6020
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**73.9103**	**1.0048**	**0.0237**	**106.0997**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

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	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Total	**0.1375**	**0.6150**	**0.3507**	**6.6000e-004**		**0.0202**	**0.0202**		**0.0202**	**0.0202**	**0.0000**	**63.8216**	**63.8216**	**8.9500e-003**	**0.0000**	**64.0453**

11.0 Vegetation

IBEC Operations

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2040
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	144.04	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

IBEC Operations - Los Angeles-South Coast County, Annual

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	144.04
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	2,589.8312	2,589.8312	0.0226	0.0216	2,596.8364
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	13.9753	49.1396	63.1149	1.4354	0.0339	109.0998
Total	**5.9948**	**1.6985**	**1.3314**	**7.1700e-003**	**0.0000**	**0.1028**	**0.1028**	**0.0000**	**0.1028**	**0.1028**	**501.1008**	**2,702.9317**	**3,204.0325**	**30.2556**	**0.0555**	**3,976.9626**

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	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	2,406.4388	2,406.4388	0.0209	0.0200	2,412.9314
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	32.0649	41.8476	1.0048	0.0237	74.0370
Total	**5.9861**	**1.6193**	**1.2649**	**6.6900e-003**	**0.0000**	**0.0968**	**0.0968**	**0.0000**	**0.0968**	**0.0968**	**496.9082**	**2,502.4646**	**2,999.3728**	**29.8233**	**0.0438**	**3,757.9949**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.15**	**4.67**	**5.00**	**6.69**	**0.00**	**5.86**	**5.86**	**0.00**	**5.86**	**5.86**	**0.84**	**7.42**	**6.39**	**1.43**	**21.17**	**5.51**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

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
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
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
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	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
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,313.8686	1,313.8686	0.0000	0.0000	1,313.8686
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	1,410.9980	1,410.9980	0.0000	0.0000	1,410.9980
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

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	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1191**	**1.0829**	**0.9096**	**6.4900e-003**		**0.0823**	**0.0823**		**0.0823**	**0.0823**	**0.0000**	**1,178.8332**	**1,178.8332**	**0.0226**	**0.0216**	**1,185.8384**

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	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1104**	**1.0036**	**0.8430**	**6.0200e-003**		**0.0763**	**0.0763**		**0.0763**	**0.0763**	**0.0000**	**1,092.5702**	**1,092.5702**	**0.0209**	**0.0200**	**1,099.0628**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.7687e+007	1,155.5848	0.0000	0.0000	1,155.5848
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	128.6397	0.0000	0.0000	128.6397
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	2.8813	0.0000	0.0000	2.8813
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	123.8922	0.0000	0.0000	123.8922
Total		**1,410.9980**	**0.0000**	**0.0000**	**1,410.9980**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	1,127.8331	0.0000	0.0000	1,127.8331
Enclosed Parking Structure	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Fast Food Restaurant w/o Drive Thru	-83461.5	-5.4530	0.0000	0.0000	-5.4530
General Office Building	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Government (Civic Center)	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Health Club	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Hotel	1.82512e+006	119.2450	0.0000	0.0000	119.2450
Medical Office Building	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Other Non-Asphalt Surfaces	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Parking Lot	-39361.5	-2.5717	0.0000	0.0000	-2.5717
Quality Restaurant	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Strip Mall	-83461.5	-5.4530	0.0000	0.0000	-5.4530
Unenclosed Parking Structure	1.81279e+006	118.4392	0.0000	0.0000	118.4392
Total		**1,313.8686**	**0.0000**	**0.0000**	**1,313.8686**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Unmitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Total	**5.7382**	**6.4000e-004**	**0.0712**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1482**

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Total	**5.7382**	**6.4000e-004**	**0.0712**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1482**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	41.8476	1.0048	0.0237	74.0370
Unmitigated	63.1149	1.4354	0.0339	109.0998

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	9.2852	0.2418	5.7100e-003	17.0310
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	3.3173	0.0890	2.1000e-003	6.1690
General Office Building	12.6191 / 7.73428	20.3531	0.4112	9.7100e-003	33.5262
Government (Civic Center)	2.9799 / 1.82639	4.8062	0.0971	2.2900e-003	7.9170
Health Club	5.02717 / 3.08117	8.1082	0.1638	3.8700e-003	13.3561
Hotel	3.80502 / 0.422779	4.7511	0.1240	2.9300e-003	8.7232
Medical Office Building	3.13701 / 0.597526	4.0977	0.1022	2.4100e-003	7.3725
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	5.5288	0.1484	3.5000e-003	10.2817
Strip Mall	1.77774 / 1.08958	2.8673	0.0579	1.3700e-003	4.7231
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**63.1149**	**1.4354**	**0.0339**	**109.0998**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	6.3759	0.1693	4.0000e-003	11.7980
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	2.2968	0.0623	1.4700e-003	4.2930
General Office Building	8.83337 / 3.86714	13.1243	0.2878	6.8000e-003	22.3455
Government (Civic Center)	2.08593 / 0.913194	3.0992	0.0680	1.6000e-003	5.2767
Health Club	3.51902 / 1.54058	5.2284	0.1147	2.7100e-003	8.9020
Hotel	2.66351 / 0.21139	3.2644	0.0868	2.0500e-003	6.0449
Medical Office Building	2.19591 / 0.298763	2.7817	0.0716	1.6900e-003	5.0740
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	3.8280	0.1039	2.4500e-003	7.1550
Strip Mall	1.24442 / 0.544791	1.8489	0.0406	9.6000e-004	3.1480
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**41.8476**	**1.0048**	**0.0237**	**74.0370**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

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	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Total	**0.1375**	**0.6150**	**0.3507**	**6.6000e-004**		**0.0202**	**0.0202**		**0.0202**	**0.0202**	**0.0000**	**63.8216**	**63.8216**	**8.9500e-003**	**0.0000**	**64.0453**

11.0 Vegetation

IBEC Operations

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2045
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	0	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - IBEC operations run. CO2e intensity rate adjusted per RPS mandates.

Land Use - Project specific land uses provided in programming details. Enclosed parking structure to account for South Parking Structure and unenclosed parking structure to account for West Parking structure.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Energy consumption from ancillary land uses included within arena land use based on white box energy model. Default energy consumption rates used for remaining parking structures and hotel.

Water And Wastewater - Arena indoor water consumption based on GSW water demand rates. Arena outdoor water consumption based on G1C highest month water usage. Default for remaining land uses.

Solid Waste - Arena solid waste factor based on factor used in Sacramento Entertainment and Sports Center EIR, 2013. Retail and office solid waste generation factor consistent with GSW NOP. Default rates for remaining ancillary land uses.

Energy Mitigation - GHG emissions reductions achieved through LEED features of the following: 1,085,000 kWhr/year and 10% improvement over Title 24 per CalGreen Code Tier 1.

Water Mitigation - LEED features of the following: 50% water conservation of outdoor usage and 30% of indoor usage.

Stationary Sources - Emergency Generators and Fire Pumps - 1 2,500 kW emergency generator. Additional generators totaling 750 kW modeled separately. Assumes 50 hours per year for maintenance and testing.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	688,400.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	2,065,200.00	0.00
tblArchitecturalCoating	ConstArea_Parking	90,478.00	0.00
tblConstructionPhase	NumDays	35.00	0.00
tblConstructionPhase	NumDays	20.00	0.00
tblEnergyUse	LightingElect	2.99	6.84
tblEnergyUse	LightingElect	1.75	0.00

tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	8.76
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	NT24NG	6.86	5.25
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	6.86	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	NT24NG	180.76	0.00
tblEnergyUse	NT24NG	1.05	0.00
tblEnergyUse	T24E	1.63	3.73
tblEnergyUse	T24E	3.92	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00

tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	10.74
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00
tblEnergyUse	T24NG	0.95	0.00
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00

tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	0
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.18	1,180.35
tblSolidWaste	SolidWasteGenerationRate	66.03	92.30
tblSolidWaste	SolidWasteGenerationRate	25.20	87.60
tblTripsAndVMT	WorkerTripNumber	240.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00
tblWater	IndoorWaterUseRate	394,154,657.60	7,420,025.00
tblWater	OutdoorWaterUseRate	25,158,807.93	852,384.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	13.9753	0.0000	13.9753	1.4354	0.0339	59.9602
Total	**5.9948**	**1.6985**	**1.3314**	**7.1700e-003**	**0.0000**	**0.1028**	**0.1028**	**0.0000**	**0.1028**	**0.1028**	**501.1008**	**1,242.7941**	**1,743.8949**	**30.2556**	**0.0555**	**2,516.8251**

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	tons/yr										MT/yr					
Area	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Energy	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
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	0.0000	0.0000
Stationary	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Waste						0.0000	0.0000		0.0000	0.0000	487.1255	0.0000	487.1255	28.7883	0.0000	1,206.8329
Water						0.0000	0.0000		0.0000	0.0000	9.7827	0.0000	9.7827	1.0048	0.0237	41.9721
Total	**5.9861**	**1.6193**	**1.2649**	**6.6900e-003**	**0.0000**	**0.0968**	**0.0968**	**0.0000**	**0.0968**	**0.0968**	**496.9082**	**1,156.5311**	**1,653.4393**	**29.8233**	**0.0438**	**2,412.0614**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.15**	**4.67**	**5.00**	**6.69**	**0.00**	**5.86**	**5.86**	**0.00**	**5.86**	**5.86**	**0.84**	**6.94**	**5.19**	**1.43**	**21.17**	**4.16**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/16/2018	10/15/2018	5	0	
2	Architectural Coating	Architectural Coating	11/13/2018	11/12/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 9.28

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
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Enclosed Parking Structure	0.00	0.00	0.00		
Fast Food Restaurant w/o Drive Thru	0.00	0.00	0.00		
General Office Building	0.00	0.00	0.00		
Government (Civic Center)	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Hotel	0.00	0.00	0.00		
Medical Office Building	0.00	0.00	0.00		
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Parking Lot	0.00	0.00	0.00		
Quality Restaurant	0.00	0.00	0.00		
Strip Mall	0.00	0.00	0.00		
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6
Enclosed Parking Structure	16.60	8.40	6.90	0.00	0.00	0.00	0	0	0
Fast Food Restaurant w/o Drive	16.60	8.40	6.90	1.50	79.50	19.00	51	37	12
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Government (Civic Center)	16.60	8.40	6.90	75.00	20.00	5.00	50	34	16
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Medical Office Building	16.60	8.40	6.90	29.60	51.40	19.00	60	30	10
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
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15
Unenclosed Parking Structure	16.60	8.40	6.90	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
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Enclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Fast Food Restaurant w/o Drive Thru	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Government (Civic Center)	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Health Club	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Hotel	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Medical Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Other Non-Asphalt Surfaces	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Parking Lot	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Quality Restaurant	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Strip Mall	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850
Unenclosed Parking Structure	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

IBEC Operations - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Mitigated	0.1104	1.0036	0.8431	6.0200e-003		0.0763	0.0763		0.0763	0.0763	0.0000	1,092.5702	1,092.5702	0.0209	0.0200	1,099.0628
NaturalGas Unmitigated	0.1191	1.0829	0.9096	6.5000e-003		0.0823	0.0823		0.0823	0.0823	0.0000	1,178.8332	1,178.8332	0.0226	0.0216	1,185.8384

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	tons/yr										MT/yr					
Arena	1.46309e+007	0.0789	0.7172	0.6025	4.3000e-003		0.0545	0.0545		0.0545	0.0545	0.0000	780.7579	780.7579	0.0150	0.0143	785.3975
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	7.45965e+006	0.0402	0.3657	0.3072	2.1900e-003		0.0278	0.0278		0.0278	0.0278	0.0000	398.0753	398.0753	7.6300e-003	7.3000e-003	400.4409
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1191**	**1.0829**	**0.9096**	**6.4900e-003**		**0.0823**	**0.0823**		**0.0823**	**0.0823**	**0.0000**	**1,178.8332**	**1,178.8332**	**0.0226**	**0.0216**	**1,185.8384**

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	tons/yr										MT/yr					
Arena	1.36481e+007	0.0736	0.6690	0.5620	4.0100e-003		0.0509	0.0509		0.0509	0.0509	0.0000	728.3167	728.3167	0.0140	0.0134	732.6448
Enclosed Parking Structure	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	0.0000
Fast Food Restaurant w/o Drive Thru	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	0.0000
General Office Building	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	0.0000
Government (Civic Center)	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	0.0000
Health Club	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	0.0000
Hotel	6.82585e+006	0.0368	0.3346	0.2811	2.0100e-003		0.0254	0.0254		0.0254	0.0254	0.0000	364.2535	364.2535	6.9800e-003	6.6800e-003	366.4180
Medical Office Building	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	0.0000
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	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	0.0000
Quality Restaurant	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	0.0000
Strip Mall	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	0.0000
Unenclosed Parking Structure	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	0.0000
Total		**0.1104**	**1.0036**	**0.8430**	**6.0200e-003**		**0.0763**	**0.0763**		**0.0763**	**0.0763**	**0.0000**	**1,092.5702**	**1,092.5702**	**0.0209**	**0.0200**	**1,099.0628**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.7687e+007	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	0	0.0000	0.0000	0.0000	0.0000
General Office Building	0	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	0	0.0000	0.0000	0.0000	0.0000
Health Club	0	0.0000	0.0000	0.0000	0.0000
Hotel	1.96891e+006	0.0000	0.0000	0.0000	0.0000
Medical Office Building	0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	44100	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	0	0.0000	0.0000	0.0000	0.0000
Strip Mall	0	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.89625e+006	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.72622e+007	0.0000	0.0000	0.0000	0.0000
Enclosed Parking Structure	-83461.5	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	-83461.5	0.0000	0.0000	0.0000	0.0000
General Office Building	-83461.5	0.0000	0.0000	0.0000	0.0000
Government (Civic Center)	-83461.5	0.0000	0.0000	0.0000	0.0000
Health Club	-83461.5	0.0000	0.0000	0.0000	0.0000
Hotel	1.82512e+006	0.0000	0.0000	0.0000	0.0000
Medical Office Building	-83461.5	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	-83461.5	0.0000	0.0000	0.0000	0.0000
Parking Lot	-39361.5	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	-83461.5	0.0000	0.0000	0.0000	0.0000
Strip Mall	-83461.5	0.0000	0.0000	0.0000	0.0000
Unenclosed Parking Structure	1.81279e+006	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Unmitigated	5.7382	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Total	**5.7382**	**6.4000e-004**	**0.0712**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1482**

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	tons/yr										MT/yr					
Architectural Coating	0.6591					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	5.0725					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	6.5100e-003	6.4000e-004	0.0712	1.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	0.1393	0.1393	3.6000e-004	0.0000	0.1482
Total	**5.7382**	**6.4000e-004**	**0.0712**	**1.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**0.1393**	**0.1393**	**3.6000e-004**	**0.0000**	**0.1482**

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	9.7827	1.0048	0.0237	41.9721
Unmitigated	13.9753	1.4354	0.0339	59.9602

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	7.42002 / 0.852384	2.3540	0.2418	5.7100e-003	10.0999
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	2.7318 / 0.17437	0.8667	0.0890	2.1000e-003	3.7184
General Office Building	12.6191 / 7.73428	4.0035	0.4112	9.7100e-003	17.1766
Government (Civic Center)	2.9799 / 1.82639	0.9454	0.0971	2.2900e-003	4.0561
Health Club	5.02717 / 3.08117	1.5949	0.1638	3.8700e-003	6.8428
Hotel	3.80502 / 0.422779	1.2072	0.1240	2.9300e-003	5.1792
Medical Office Building	3.13701 / 0.597526	0.9952	0.1022	2.4100e-003	4.2700
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	4.55301 / 0.290617	1.4445	0.1484	3.5000e-003	6.1974
Strip Mall	1.77774 / 1.08958	0.5640	0.0579	1.3700e-003	2.4198
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**13.9753**	**1.4354**	**0.0339**	**59.9602**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	5.19402 / 0.426192	1.6478	0.1693	4.0000e-003	7.0699
Enclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	1.91226 / 0.0871852	0.6067	0.0623	1.4700e-003	2.6029
General Office Building	8.83337 / 3.86714	2.8024	0.2878	6.8000e-003	12.0236
Government (Civic Center)	2.08593 / 0.913194	0.6618	0.0680	1.6000e-003	2.8393
Health Club	3.51902 / 1.54058	1.1164	0.1147	2.7100e-003	4.7900
Hotel	2.66351 / 0.21139	0.8450	0.0868	2.0500e-003	3.6255
Medical Office Building	2.19591 / 0.298763	0.6967	0.0716	1.6900e-003	2.9890
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	3.1871 / 0.145309	1.0111	0.1039	2.4500e-003	4.3382
Strip Mall	1.24442 / 0.544791	0.3948	0.0406	9.6000e-004	1.6939
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**9.7827**	**1.0048**	**0.0237**	**41.9721**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	487.1255	28.7883	0.0000	1,206.8329
Unmitigated	487.1255	28.7883	0.0000	1,206.8329

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1180.35	239.6004	14.1600	0.0000	593.5998
Enclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Fast Food Restaurant w/o Drive Thru	103.67	21.0441	1.2437	0.0000	52.1358
General Office Building	92.3	18.7361	1.1073	0.0000	46.4178
Government (Civic Center)	85.5	17.3557	1.0257	0.0000	42.9981
Health Club	484.5	98.3491	5.8123	0.0000	243.6558
Hotel	82.13	16.6717	0.9853	0.0000	41.3033
Medical Office Building	270	54.8076	3.2390	0.0000	135.7834
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
Quality Restaurant	13.69	2.7790	0.1642	0.0000	6.8847
Strip Mall	87.6	17.7820	1.0509	0.0000	44.0542
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		**487.1255**	**28.7883**	**0.0000**	**1,206.8329**

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	3352.55	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

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	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1375	0.6150	0.3507	6.6000e-004		0.0202	0.0202		0.0202	0.0202	0.0000	63.8216	63.8216	8.9500e-003	0.0000	64.0453
Total	**0.1375**	**0.6150**	**0.3507**	**6.6000e-004**		**0.0202**	**0.0202**		**0.0202**	**0.0202**	**0.0000**	**63.8216**	**63.8216**	**8.9500e-003**	**0.0000**	**64.0453**

11.0 Vegetation

Additional Generator Run

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
User Defined Industrial	1.00	User Defined Unit	0.00	0.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	476.2	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Run only includes emissions with additional emergency generators.

Land Use - Operational emissions only for additional emergency generators.

Construction Phase - Operational emissions only for additional emergency generators.

Off-road Equipment - Operational emissions only for additional emergency generators.

Off-road Equipment - Operational emissions only for additional emergency generators.

Trips and VMT - Operational emissions only for additional emergency generators.

Energy Use -

Stationary Sources - Emergency Generators and Fire Pumps - Assumes additional generators totaling 750 kW from one 100 kW, one 400 kW, and one 250kW emergency generators for the West parking garage, hotel, and plaza buildings, respectively. Assumes 50 hours per year for maintenance and testing.

Additional Generator Run - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	476.2
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	1,207.00
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	50.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Additional Generator Run - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
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	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	0.0000	0.0000
Stationary	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0495**	**0.2215**	**0.1263**	**2.4000e-004**	**0.0000**	**7.2800e-003**	**7.2800e-003**	**0.0000**	**7.2800e-003**	**7.2800e-003**	**0.0000**	**22.9811**	**22.9811**	**3.2200e-003**	**0.0000**	**23.0617**

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	tons/yr										MT/yr					
Area	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
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	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	0.0000	0.0000
Stationary	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0495**	**0.2215**	**0.1263**	**2.4000e-004**	**0.0000**	**7.2800e-003**	**7.2800e-003**	**0.0000**	**7.2800e-003**	**7.2800e-003**	**0.0000**	**22.9811**	**22.9811**	**3.2200e-003**	**0.0000**	**23.0617**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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

Additional Generator Run - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	10/30/2018	10/29/2018	5	0	
2	Architectural Coating	Architectural Coating	10/30/2018	10/29/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
User Defined Industrial	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
User Defined Industrial	16.60	8.40	6.90	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
User Defined Industrial	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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	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	tons/yr										MT/yr					
User Defined Industrial	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	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**

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	tons/yr										MT/yr					
User Defined Industrial	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	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**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**0.0000**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
User Defined Industrial	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
User Defined Industrial	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0	50	1207	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

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	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.0495	0.2215	0.1263	2.4000e-004		7.2800e-003	7.2800e-003		7.2800e-003	7.2800e-003	0.0000	22.9811	22.9811	3.2200e-003	0.0000	23.0617
Total	**0.0495**	**0.2215**	**0.1263**	**2.4000e-004**		**7.2800e-003**	**7.2800e-003**		**7.2800e-003**	**7.2800e-003**	**0.0000**	**22.9811**	**22.9811**	**3.2200e-003**	**0.0000**	**23.0617**

11.0 Vegetation

Baseline Emissions

CalEEMod Run Outputs

Existing On-Site Buildings Operations Base Case

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	28.81	1000sqft	1.03	28,809.00	0
Fast Food Restaurant with Drive Thru	1.12	1000sqft	0.33	1,118.00	0
Motel	38.00	Room	0.66	16,806.00	0
Strip Mall	1.13	1000sqft	0.19	1,134.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	524.7	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Existing On-Site Buildings Operations Base Case - Los Angeles-South Coast County, Annual

Project Characteristics - Operations run only from on-site buildings proposed to be demolished. SCE 2018 CO2e intensity factor per RPS goals.

Land Use - Based on specific parcel data on buildings to be demolished.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Default trip rates.

Energy Use - All buildings constructed before 2005.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	23,934.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	71,801.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	3.00	0.00
tblLandUse	LandUseSquareFeet	28,810.00	28,809.00
tblLandUse	LandUseSquareFeet	1,120.00	1,118.00
tblLandUse	LandUseSquareFeet	74,487.60	16,806.00
tblLandUse	LandUseSquareFeet	1,130.00	1,134.00
tblLandUse	LotAcreage	0.66	1.03
tblLandUse	LotAcreage	0.03	0.33
tblLandUse	LotAcreage	1.71	0.66
tblLandUse	LotAcreage	0.03	0.19
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	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	524.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	4.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Energy	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	205.3312	205.3312	1.5800e-003	1.5100e-003	205.8207
Mobile	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Waste						0.0000	0.0000		0.0000	0.0000	14.3332	0.0000	14.3332	0.8471	0.0000	35.5099
Water						0.0000	0.0000		0.0000	0.0000	2.5539	25.4229	27.9767	0.2623	6.1900e-003	36.3801
Total	**0.5528**	**1.5939**	**3.9722**	**0.0105**	**0.7206**	**0.0182**	**0.7388**	**0.1932**	**0.0174**	**0.2107**	**16.8871**	**1,154.0410**	**1,170.9280**	**1.1726**	**7.7000e-003**	**1,202.5377**

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	tons/yr										MT/yr					
Area	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Energy	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	205.3312	205.3312	1.5800e-003	1.5100e-003	205.8207
Mobile	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Waste						0.0000	0.0000		0.0000	0.0000	14.3332	0.0000	14.3332	0.8471	0.0000	35.5099
Water						0.0000	0.0000		0.0000	0.0000	2.5539	25.4229	27.9767	0.2623	6.1900e-003	36.3801
Total	**0.5528**	**1.5939**	**3.9722**	**0.0105**	**0.7206**	**0.0182**	**0.7388**	**0.1932**	**0.0174**	**0.2107**	**16.8871**	**1,154.0410**	**1,170.9280**	**1.1726**	**7.7000e-003**	**1,202.5377**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Site Preparation	Site Preparation	10/8/2018	10/7/2018	5	0	
2	Architectural Coating	Architectural Coating	10/11/2018	10/10/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Scrapers	0	0.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
Mitigated	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252
Unmitigated	0.3492	1.5182	3.9078	0.0100	0.7206	0.0124	0.7330	0.1932	0.0117	0.2049	0.0000	923.2852	923.2852	0.0616	0.0000	924.8252

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant with Drive Thru	555.65	808.67	607.85	630,650	630,650
General Light Industry	200.81	38.03	19.59	671,611	671,611
Motel	213.94	213.94	213.94	508,773	508,773
Strip Mall	50.08	47.51	23.09	87,247	87,247
Total	1,020.48	1,108.15	864.46	1,898,281	1,898,281

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Fast Food Restaurant with Drive	16.60	8.40	6.90	2.20	78.80	19.00	29	21	50
General Light Industry	16.60	8.40	6.90	59.00	28.00	13.00	92	5	3
Motel	16.60	8.40	6.90	19.00	62.00	19.00	58	38	4
Strip Mall	16.60	8.40	6.90	16.60	64.40	19.00	45	40	15

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant with Drive Thru	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
General Light Industry	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Motel	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Strip Mall	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: Y

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	122.9488	122.9488	0.0000	0.0000	122.9488
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	122.9488	122.9488	0.0000	0.0000	122.9488
NaturalGas Mitigated	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	82.3824	82.3824	1.5800e-003	1.5100e-003	82.8719
NaturalGas Unmitigated	8.3200e-003	0.0757	0.0636	4.5000e-004		5.7500e-003	5.7500e-003		5.7500e-003	5.7500e-003	0.0000	82.3824	82.3824	1.5800e-003	1.5100e-003	82.8719

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	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	295666	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7779	15.7779	3.0000e-004	2.9000e-004	15.8716
General Light Industry	636679	3.4300e-003	0.0312	0.0262	1.9000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	33.9756	33.9756	6.5000e-004	6.2000e-004	34.1775
Motel	609049	3.2800e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5012	32.5012	6.2000e-004	6.0000e-004	32.6943
Strip Mall	2392.74	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1284
Total		**8.3100e-003**	**0.0757**	**0.0636**	**4.6000e-004**		**5.7500e-003**	**5.7500e-003**		**5.7500e-003**	**5.7500e-003**	**0.0000**	**82.3824**	**82.3824**	**1.5700e-003**	**1.5100e-003**	**82.8719**

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	tons/yr										MT/yr					
Fast Food Restaurant with Drive Thru	295666	1.5900e-003	0.0145	0.0122	9.0000e-005		1.1000e-003	1.1000e-003		1.1000e-003	1.1000e-003	0.0000	15.7779	15.7779	3.0000e-004	2.9000e-004	15.8716
General Light Industry	636679	3.4300e-003	0.0312	0.0262	1.9000e-004		2.3700e-003	2.3700e-003		2.3700e-003	2.3700e-003	0.0000	33.9756	33.9756	6.5000e-004	6.2000e-004	34.1775
Motel	609049	3.2800e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5012	32.5012	6.2000e-004	6.0000e-004	32.6943
Strip Mall	2392.74	1.0000e-005	1.2000e-004	1.0000e-004	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	0.1277	0.1277	0.0000	0.0000	0.1284
Total		**8.3100e-003**	**0.0757**	**0.0636**	**4.6000e-004**		**5.7500e-003**	**5.7500e-003**		**5.7500e-003**	**5.7500e-003**	**0.0000**	**82.3824**	**82.3824**	**1.5700e-003**	**1.5100e-003**	**82.8719**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	45368.4	10.7977	0.0000	0.0000	10.7977
General Light Industry	278007	66.1656	0.0000	0.0000	66.1656
Motel	177976	42.3582	0.0000	0.0000	42.3582
Strip Mall	15241	3.6274	0.0000	0.0000	3.6274
Total		**122.9488**	**0.0000**	**0.0000**	**122.9488**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant with Drive Thru	45368.4	10.7977	0.0000	0.0000	10.7977
General Light Industry	278007	66.1656	0.0000	0.0000	66.1656
Motel	177976	42.3582	0.0000	0.0000	42.3582
Strip Mall	15241	3.6274	0.0000	0.0000	3.6274
Total		**122.9488**	**0.0000**	**0.0000**	**122.9488**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Unmitigated	0.1952	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003

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	tons/yr										MT/yr					
Architectural Coating	0.0222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1730					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Total	**0.1953**	**1.0000e-005**	**8.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7100e-003**	**1.7100e-003**	**0.0000**	**0.0000**	**1.8300e-003**

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	tons/yr										MT/yr					
Architectural Coating	0.0222					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1730					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	9.0000e-005	1.0000e-005	8.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.7100e-003	1.7100e-003	0.0000	0.0000	1.8300e-003
Total	**0.1953**	**1.0000e-005**	**8.9000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.7100e-003**	**1.7100e-003**	**0.0000**	**0.0000**	**1.8300e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.9767	0.2623	6.1900e-003	36.3801
Unmitigated	27.9767	0.2623	6.1900e-003	36.3801

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	0.339958 / 0.0216994	1.2188	0.0111	2.6000e-004	1.5736
General Light Industry	6.66231 / 0	22.7601	0.2171	5.1300e-003	29.7150
Motel	0.963937 / 0.107104	3.5763	0.0314	7.4000e-004	4.5825
Strip Mall	0.0837019 / 0.0513012	0.4216	2.7300e-003	6.0000e-005	0.5090
Total		**27.9767**	**0.2623**	**6.1900e-003**	**36.3801**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant with Drive Thru	0.339958 / 0.0216994	1.2188	0.0111	2.6000e-004	1.5736
General Light Industry	6.66231 / 0	22.7601	0.2171	5.1300e-003	29.7150
Motel	0.963937 / 0.107104	3.5763	0.0314	7.4000e-004	4.5825
Strip Mall	0.0837019 / 0.0513012	0.4216	2.7300e-003	6.0000e-005	0.5090
Total		**27.9767**	**0.2623**	**6.1900e-003**	**36.3801**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	14.3332	0.8471	0.0000	35.5099
Unmitigated	14.3332	0.8471	0.0000	35.5099

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	12.9	2.6186	0.1548	0.0000	6.4874
General Light Industry	35.72	7.2508	0.4285	0.0000	17.9636
Motel	20.8	4.2222	0.2495	0.0000	10.4604
Strip Mall	1.19	0.2416	0.0143	0.0000	0.5985
Total		**14.3332**	**0.8471**	**0.0000**	**35.5099**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant with Drive Thru	12.9	2.6186	0.1548	0.0000	6.4874
General Light Industry	35.72	7.2508	0.4285	0.0000	17.9636
Motel	20.8	4.2222	0.2495	0.0000	10.4604
Strip Mall	1.19	0.2416	0.0143	0.0000	0.5985
Total		**14.3332**	**0.8471**	**0.0000**	**35.5099**

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

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

Existing Onsite Buildings Operations Alternate Case Parcels

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Apartments Low Rise	3.00	Dwelling Unit	0.10	1,629.00	9
Single Family Housing	1.00	Dwelling Unit	0.10	795.00	3

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	524.7	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Project Characteristics - Operations run only for additional parcels to be demolished under alternate case. SCE 2018 CO2e intensity factor per RPS goals.

Land Use - Based on specific parcel data on buildings to be demolished.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Grading - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Default trip rates.

Energy Use - All buildings constructed before 2005.

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Residential_Exterior	1,636.00	0.00
tblArchitecturalCoating	ConstArea_Residential_Interior	4,909.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	PhaseEndDate	3/27/2019	3/20/2019
tblConstructionPhase	PhaseEndDate	10/22/2018	10/19/2018
tblEnergyUse	T24E	197.46	197.46
tblEnergyUse	T24E	505.85	505.85
tblEnergyUse	T24NG	9,159.53	9,159.53
tblEnergyUse	T24NG	25,627.22	25,627.22
tblLandUse	LandUseSquareFeet	3,000.00	1,629.00
tblLandUse	LandUseSquareFeet	1,800.00	795.00
tblLandUse	LotAcreage	0.19	0.10
tblLandUse	LotAcreage	0.32	0.10
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	524.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	1.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Existing Onsite Buildings Operations Alternate Case Parcels - Los Angeles-South Coast County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Energy	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	7.8579	7.8579	7.0000e-005	6.0000e-005	7.8789
Mobile	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Waste						0.0000	0.0000		0.0000	0.0000	0.5298	0.0000	0.5298	0.0313	0.0000	1.3126
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.2421	1.3248	8.4900e-003	2.0000e-004	1.5968
Total	**0.0372**	**0.0681**	**0.2484**	**6.0000e-004**	**0.0379**	**4.9200e-003**	**0.0429**	**0.0102**	**4.8800e-003**	**0.0151**	**1.0374**	**56.7528**	**57.7901**	**0.0441**	**2.9000e-004**	**58.9803**

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	tons/yr										MT/yr					
Area	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Energy	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	7.8579	7.8579	7.0000e-005	6.0000e-005	7.8789
Mobile	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Waste						0.0000	0.0000		0.0000	0.0000	0.5298	0.0000	0.5298	0.0313	0.0000	1.3126
Water						0.0000	0.0000		0.0000	0.0000	0.0827	1.2421	1.3248	8.4900e-003	2.0000e-004	1.5968
Total	**0.0372**	**0.0681**	**0.2484**	**6.0000e-004**	**0.0379**	**4.9200e-003**	**0.0429**	**0.0102**	**4.8800e-003**	**0.0151**	**1.0374**	**56.7528**	**57.7901**	**0.0441**	**2.9000e-004**	**58.9803**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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	Site Preparation	Site Preparation	10/20/2018	10/19/2018	5	0	
2	Architectural Coating	Architectural Coating	3/21/2019	3/20/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2019

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2019

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
Mitigated	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413
Unmitigated	0.0129	0.0635	0.1801	5.1000e-004	0.0379	6.2000e-004	0.0386	0.0102	5.8000e-004	0.0108	0.0000	46.7690	46.7690	2.8900e-003	0.0000	46.8413

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	19.77	21.48	18.21	67,630	67,630
Single Family Housing	9.52	9.91	8.62	32,282	32,282
Total	29.29	31.39	26.83	99,913	99,913

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Single Family Housing	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Single Family Housing	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: Y

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.3135	4.3135	0.0000	0.0000	4.3135
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4.3135	4.3135	0.0000	0.0000	4.3135
NaturalGas Mitigated	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.5444	3.5444	7.0000e-005	6.0000e-005	3.5654
NaturalGas Unmitigated	3.6000e-004	3.0600e-003	1.3000e-003	2.0000e-005		2.5000e-004	2.5000e-004		2.5000e-004	2.5000e-004	0.0000	3.5444	3.5444	7.0000e-005	6.0000e-005	3.5654

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	tons/yr										MT/yr					
Apartments Low Rise	34972.6	1.9000e-004	1.6100e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8663	1.8663	4.0000e-005	3.0000e-005	1.8774
Single Family Housing	31446.2	1.7000e-004	1.4500e-003	6.2000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6781	1.6781	3.0000e-005	3.0000e-005	1.6881
Total		**3.6000e-004**	**3.0600e-003**	**1.3100e-003**	**2.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**3.5444**	**3.5444**	**7.0000e-005**	**6.0000e-005**	**3.5654**

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	tons/yr										MT/yr					
Apartments Low Rise	34972.6	1.9000e-004	1.6100e-003	6.9000e-004	1.0000e-005		1.3000e-004	1.3000e-004		1.3000e-004	1.3000e-004	0.0000	1.8663	1.8663	4.0000e-005	3.0000e-005	1.8774
Single Family Housing	31446.2	1.7000e-004	1.4500e-003	6.2000e-004	1.0000e-005		1.2000e-004	1.2000e-004		1.2000e-004	1.2000e-004	0.0000	1.6781	1.6781	3.0000e-005	3.0000e-005	1.6881
Total		**3.6000e-004**	**3.0600e-003**	**1.3100e-003**	**2.0000e-005**		**2.5000e-004**	**2.5000e-004**		**2.5000e-004**	**2.5000e-004**	**0.0000**	**3.5444**	**3.5444**	**7.0000e-005**	**6.0000e-005**	**3.5654**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	10919.4	2.5988	0.0000	0.0000	2.5988
Single Family Housing	7204.5	1.7147	0.0000	0.0000	1.7147
Total		**4.3135**	**0.0000**	**0.0000**	**4.3135**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	10919.4	2.5988	0.0000	0.0000	2.5988
Single Family Housing	7204.5	1.7147	0.0000	0.0000	1.7147
Total		**4.3135**	**0.0000**	**0.0000**	**4.3135**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507
Unmitigated	0.0239	1.5200e-003	0.0670	7.0000e-005		4.0500e-003	4.0500e-003		4.0500e-003	4.0500e-003	0.4249	0.8839	1.3087	1.3300e-003	3.0000e-005	1.3507

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	tons/yr										MT/yr					
Architectural Coating	7.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0131	1.0400e-003	0.0254	6.0000e-005		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.4249	0.8165	1.2413	1.2700e-003	3.0000e-005	1.2816
Landscaping	1.2800e-003	4.8000e-004	0.0415	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.0674	0.0674	7.0000e-005	0.0000	0.0691
Total	**0.0239**	**1.5200e-003**	**0.0670**	**6.0000e-005**		**4.0500e-003**	**4.0500e-003**		**4.0500e-003**	**4.0500e-003**	**0.4249**	**0.8839**	**1.3087**	**1.3400e-003**	**3.0000e-005**	**1.3507**

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	tons/yr										MT/yr					
Architectural Coating	7.6000e-004					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	8.7600e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0131	1.0400e-003	0.0254	6.0000e-005		3.8200e-003	3.8200e-003		3.8200e-003	3.8200e-003	0.4249	0.8165	1.2413	1.2700e-003	3.0000e-005	1.2816
Landscaping	1.2800e-003	4.8000e-004	0.0415	0.0000		2.3000e-004	2.3000e-004		2.3000e-004	2.3000e-004	0.0000	0.0674	0.0674	7.0000e-005	0.0000	0.0691
Total	**0.0239**	**1.5200e-003**	**0.0670**	**6.0000e-005**		**4.0500e-003**	**4.0500e-003**		**4.0500e-003**	**4.0500e-003**	**0.4249**	**0.8839**	**1.3087**	**1.3400e-003**	**3.0000e-005**	**1.3507**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	1.3248	8.4900e-003	2.0000e-004	1.5968
Unmitigated	1.3248	8.4900e-003	2.0000e-004	1.5968

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.195462 / 0.123226	0.9936	6.3700e-003	1.5000e-004	1.1976
Single Family Housing	0.065154 / 0.0410754	0.3312	2.1200e-003	5.0000e-005	0.3992
Total		**1.3248**	**8.4900e-003**	**2.0000e-004**	**1.5968**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	0.195462 / 0.123226	0.9936	6.3700e-003	1.5000e-004	1.1976
Single Family Housing	0.065154 / 0.0410754	0.3312	2.1200e-003	5.0000e-005	0.3992
Total		**1.3248**	**8.4900e-003**	**2.0000e-004**	**1.5968**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.5298	0.0313	0.0000	1.3126
Unmitigated	0.5298	0.0313	0.0000	1.3126

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1.38	0.2801	0.0166	0.0000	0.6940
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
Total		**0.5298**	**0.0313**	**0.0000**	**1.3126**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	1.38	0.2801	0.0166	0.0000	0.6940
Single Family Housing	1.23	0.2497	0.0148	0.0000	0.6186
Total		**0.5298**	**0.0313**	**0.0000**	**1.3126**

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

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

LA Clippers Existing Operations

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.86	1000sqft	0.46	19,860.00	0
Health Club	42.69	1000sqft	0.98	42,691.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	837.96	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

LA Clippers Existing Operations - Los Angeles-South Coast County, Annual

Project Characteristics - Accounts for existing practice facility and team offices. LADWP specific 2016 CO2e intensity rate per RPS goals.

Land Use - Based on existing building sf.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Grading - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy usage data used for team offices. Practice facility energy usage rates scaled based on annual electricity usage per LADWP energy bills.

Stationary Sources - Emergency Generators and Fire Pumps -

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	31,276.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	93,827.00	0.00
tblConstructionPhase	NumDays	10.00	0.00
tblConstructionPhase	NumDays	2.00	0.00
tblEnergyUse	LightingElect	3.85	6.50
tblEnergyUse	NT24E	5.75	9.71
tblEnergyUse	NT24NG	4.45	3.21
tblEnergyUse	T24E	2.94	4.96
tblEnergyUse	T24NG	15.35	11.07
tblLandUse	LandUseSquareFeet	42,690.00	42,691.00
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	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	7.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	837.96
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	5.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	32.93	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	0.2551	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003
Energy	4.6200e-003	0.0420	0.0353	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	504.2835	504.2835	8.8000e-004	8.4000e-004	504.5551
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	53.1430	0.0000	53.1430	3.1407	0.0000	131.6596
Water						0.0000	0.0000		0.0000	0.0000	1.9209	45.6358	47.5567	0.1973	4.6600e-003	53.8771
Total	**0.2597**	**0.0420**	**0.0361**	**2.5000e-004**	**0.0000**	**3.1900e-003**	**3.1900e-003**	**0.0000**	**3.1900e-003**	**3.1900e-003**	**55.0639**	**549.9208**	**604.9847**	**3.3388**	**5.5000e-003**	**690.0935**

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	tons/yr										MT/yr					
Area	0.2551	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003
Energy	4.6200e-003	0.0420	0.0353	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	504.2835	504.2835	8.8000e-004	8.4000e-004	504.5551
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	53.1430	0.0000	53.1430	3.1407	0.0000	131.6596
Water						0.0000	0.0000		0.0000	0.0000	1.9209	45.6358	47.5567	0.1973	4.6600e-003	53.8771
Total	**0.2597**	**0.0420**	**0.0361**	**2.5000e-004**	**0.0000**	**3.1900e-003**	**3.1900e-003**	**0.0000**	**3.1900e-003**	**3.1900e-003**	**55.0639**	**549.9208**	**604.9847**	**3.3388**	**5.5000e-003**	**690.0935**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Site Preparation	Site Preparation	11/2/2018	11/1/2018	5	0	
2	Architectural Coating	Architectural Coating	8/31/2019	8/30/2019	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2019

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2019

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	0.00	0.00	0.00		
Health Club	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
Health Club	16.60	8.40	6.90	16.90	64.10	19.00	52	39	9

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944
Health Club	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: Y

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	458.5689	458.5689	0.0000	0.0000	458.5689
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	458.5689	458.5689	0.0000	0.0000	458.5689
NaturalGas Mitigated	4.6200e-003	0.0420	0.0353	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	45.7146	45.7146	8.8000e-004	8.4000e-004	45.9862
NaturalGas Unmitigated	4.6200e-003	0.0420	0.0353	2.5000e-004		3.1900e-003	3.1900e-003		3.1900e-003	3.1900e-003	0.0000	45.7146	45.7146	8.8000e-004	8.4000e-004	45.9862

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	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
Health Club	609600	3.2900e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5306	32.5306	6.2000e-004	6.0000e-004	32.7239
Total		**4.6200e-003**	**0.0420**	**0.0353**	**2.5000e-004**		**3.1900e-003**	**3.1900e-003**		**3.1900e-003**	**3.1900e-003**	**0.0000**	**45.7146**	**45.7146**	**8.7000e-004**	**8.4000e-004**	**45.9862**

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	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
Health Club	609600	3.2900e-003	0.0299	0.0251	1.8000e-004		2.2700e-003	2.2700e-003		2.2700e-003	2.2700e-003	0.0000	32.5306	32.5306	6.2000e-004	6.0000e-004	32.7239
Total		**4.6200e-003**	**0.0420**	**0.0353**	**2.5000e-004**		**3.1900e-003**	**3.1900e-003**		**3.1900e-003**	**3.1900e-003**	**0.0000**	**45.7146**	**45.7146**	**8.7000e-004**	**8.4000e-004**	**45.9862**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	115.0412	0.0000	0.0000	115.0412
Health Club	903801	343.5277	0.0000	0.0000	343.5277
Total		**458.5689**	**0.0000**	**0.0000**	**458.5689**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	115.0412	0.0000	0.0000	115.0412
Health Club	903801	343.5277	0.0000	0.0000	343.5277
Total		**458.5689**	**0.0000**	**0.0000**	**458.5689**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2551	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003
Unmitigated	0.2551	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003

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	tons/yr										MT/yr					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003
Total	**0.2551**	**1.0000e-005**	**8.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.5500e-003**	**1.5500e-003**	**0.0000**	**0.0000**	**1.6600e-003**

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	tons/yr										MT/yr					
Architectural Coating	0.0290					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2260					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.1000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.5500e-003	1.5500e-003	0.0000	0.0000	1.6600e-003
Total	**0.2551**	**1.0000e-005**	**8.1000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**1.5500e-003**	**1.5500e-003**	**0.0000**	**0.0000**	**1.6600e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	47.5567	0.1973	4.6600e-003	53.8771
Unmitigated	47.5567	0.1973	4.6600e-003	53.8771

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	27.7252	0.1150	2.7200e-003	31.4100
Health Club	2.52482 / 1.54747	19.8315	0.0823	1.9400e-003	22.4672
Total		**47.5567**	**0.1973**	**4.6600e-003**	**53.8771**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	27.7252	0.1150	2.7200e-003	31.4100
Health Club	2.52482 / 1.54747	19.8315	0.0823	1.9400e-003	22.4672
Total		**47.5567**	**0.1973**	**4.6600e-003**	**53.8771**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	53.1430	3.1407	0.0000	131.6596
Unmitigated	53.1430	3.1407	0.0000	131.6596

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
Health Club	243.33	49.3938	2.9191	0.0000	122.3710
Total		**53.1430**	**3.1407**	**0.0000**	**131.6596**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
Health Club	243.33	49.3938	2.9191	0.0000	122.3710
Total		**53.1430**	**3.1407**	**0.0000**	**131.6596**

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

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

Backfilled LA Clippers Organization Office

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	19.86	1000sqft	0.46	19,860.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2024
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	837.96	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Accounts for backfilling with general office use. LADWP adjusted CO2e intensity per RPS mandates.

Land Use - Based on existing square footage.

Construction Phase - Operations only run.

Off-road Equipment - Operations only run.

Off-road Equipment - Operations only run.

Grading - Operations only run.

Trips and VMT - Operations only run.

Architectural Coating - Operations only run.

Energy Use - Historical energy usage data

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	9,930.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	29,790.00	0.00
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	1.00	0.00
tblConstructionPhase	PhaseEndDate	6/20/2018	6/13/2018
tblConstructionPhase	PhaseEndDate	1/15/2018	1/12/2018
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	837.96
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblTripsAndVMT	WorkerTripNumber	1.00	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	128.2251	128.2251	2.5000e-004	2.4000e-004	128.3035
Mobile	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	26.6053	27.7252	0.1150	2.7200e-003	31.4100
Total	**0.1260**	**0.2154**	**0.6029**	**2.4000e-003**	**0.2035**	**2.7000e-003**	**0.2062**	**0.0545**	**2.5700e-003**	**0.0571**	**4.8691**	**370.4645**	**375.3336**	**0.3471**	**2.9600e-003**	**384.8934**

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	tons/yr										MT/yr					
Area	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Energy	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	128.2251	128.2251	2.5000e-004	2.4000e-004	128.3035
Mobile	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Waste						0.0000	0.0000		0.0000	0.0000	3.7492	0.0000	3.7492	0.2216	0.0000	9.2886
Water						0.0000	0.0000		0.0000	0.0000	1.1198	26.6053	27.7252	0.1150	2.7200e-003	31.4100
Total	**0.1260**	**0.2154**	**0.6029**	**2.4000e-003**	**0.2035**	**2.7000e-003**	**0.2062**	**0.0545**	**2.5700e-003**	**0.0571**	**4.8691**	**370.4645**	**375.3336**	**0.3471**	**2.9600e-003**	**384.8934**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Site Preparation	Site Preparation	1/13/2018	1/12/2018	5	0	
2	Architectural Coating	Architectural Coating	6/14/2018	6/13/2018	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Graders	0	0.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2018

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
Mitigated	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908
Unmitigated	0.0437	0.2033	0.5925	2.3300e-003	0.2035	1.7800e-003	0.2053	0.0545	1.6500e-003	0.0562	0.0000	215.6336	215.6336	0.0103	0.0000	215.8908

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Office Building	219.06	48.86	20.85	536,137	536,137
Total	219.06	48.86	20.85	536,137	536,137

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Office Building	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

5.0 Energy Detail

Historical Energy Use: Y

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	115.0412	115.0412	0.0000	0.0000	115.0412
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	115.0412	115.0412	0.0000	0.0000	115.0412
NaturalGas Mitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
NaturalGas Unmitigated	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623

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	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
Total		**1.3300e-003**	**0.0121**	**0.0102**	**7.0000e-005**		**9.2000e-004**	**9.2000e-004**		**9.2000e-004**	**9.2000e-004**	**0.0000**	**13.1840**	**13.1840**	**2.5000e-004**	**2.4000e-004**	**13.2623**

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	tons/yr										MT/yr					
General Office Building	247058	1.3300e-003	0.0121	0.0102	7.0000e-005		9.2000e-004	9.2000e-004		9.2000e-004	9.2000e-004	0.0000	13.1840	13.1840	2.5000e-004	2.4000e-004	13.2623
Total		**1.3300e-003**	**0.0121**	**0.0102**	**7.0000e-005**		**9.2000e-004**	**9.2000e-004**		**9.2000e-004**	**9.2000e-004**	**0.0000**	**13.1840**	**13.1840**	**2.5000e-004**	**2.4000e-004**	**13.2623**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	115.0412	0.0000	0.0000	115.0412
Total		**115.0412**	**0.0000**	**0.0000**	**115.0412**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Office Building	302666	115.0412	0.0000	0.0000	115.0412
Total		**115.0412**	**0.0000**	**0.0000**	**115.0412**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Unmitigated	0.0810	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004

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	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Total	**0.0810**	**0.0000**	**2.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.9000e-004**	**4.9000e-004**	**0.0000**	**0.0000**	**5.3000e-004**

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	tons/yr										MT/yr					
Architectural Coating	9.2100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0718					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	2.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	4.9000e-004	4.9000e-004	0.0000	0.0000	5.3000e-004
Total	**0.0810**	**0.0000**	**2.5000e-004**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**4.9000e-004**	**4.9000e-004**	**0.0000**	**0.0000**	**5.3000e-004**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	27.7252	0.1150	2.7200e-003	31.4100
Unmitigated	27.7252	0.1150	2.7200e-003	31.4100

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	27.7252	0.1150	2.7200e-003	31.4100
Total		**27.7252**	**0.1150**	**2.7200e-003**	**31.4100**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Office Building	3.52979 / 2.16342	27.7252	0.1150	2.7200e-003	31.4100
Total		**27.7252**	**0.1150**	**2.7200e-003**	**31.4100**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.7492	0.2216	0.0000	9.2886
Unmitigated	3.7492	0.2216	0.0000	9.2886

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
Total		**3.7492**	**0.2216**	**0.0000**	**9.2886**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Office Building	18.47	3.7492	0.2216	0.0000	9.2886
Total		**3.7492**	**0.2216**	**0.0000**	**9.2886**

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

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

Staples Center

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	918.00	1000sqft	295.07	918,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	11			**Operational Year**	2018
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	837.96	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Existing operational run to estimate existing emissions from NBA related events and market shifted events.

Land Use - Based on Staples Center square footage.

Construction Phase - Operational run only.

Off-road Equipment - Operational run only.

Off-road Equipment - Operational run only.

Trips and VMT - Operational run only.

Architectural Coating - Operational run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Historical energy use data.

Solid Waste - Based on solid waste generation rate of 1.29 ton/1000 square foot.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	459,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,377,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblConstructionPhase	PhaseEndDate	9/29/2042	6/24/2041
tblConstructionPhase	PhaseEndDate	8/10/2020	12/2/2019
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1227.89	837.96
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	25.26	1,184.22
tblTripsAndVMT	WorkerTripNumber	77.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2041	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	5,345.4776	5,345.4776	0.0186	0.0178	5,351.2416
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	2,063.7283	2,189.1854	12.8856	0.3043	2,601.9954
Total	**3.8418**	**0.8911**	**0.7603**	**5.3500e-003**	**0.0000**	**0.0678**	**0.0678**	**0.0000**	**0.0678**	**0.0678**	**365.8430**	**7,409.2287**	**7,775.0718**	**27.1107**	**0.3220**	**8,548.8074**

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	tons/yr										MT/yr					
Area	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Energy	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	5,345.4776	5,345.4776	0.0186	0.0178	5,351.2416
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	240.3860	0.0000	240.3860	14.2064	0.0000	595.5460
Water						0.0000	0.0000		0.0000	0.0000	125.4571	2,063.7283	2,189.1854	12.8856	0.3043	2,601.9954
Total	**3.8418**	**0.8911**	**0.7603**	**5.3500e-003**	**0.0000**	**0.0678**	**0.0678**	**0.0000**	**0.0678**	**0.0678**	**365.8430**	**7,409.2287**	**7,775.0718**	**27.1107**	**0.3220**	**8,548.8074**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Site Preparation	Site Preparation	12/3/2019	12/2/2019	5	0	
2	Architectural Coating	Architectural Coating	6/25/2041	6/24/2041	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40

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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2019

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2041

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2041

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	0.000944

5.0 Energy Detail

Historical Energy Use: Y

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,375.5157	4,375.5157	0.0000	0.0000	4,375.5157
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	4,375.5157	4,375.5157	0.0000	0.0000	4,375.5157
NaturalGas Mitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
NaturalGas Unmitigated	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259

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	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
Total		**0.0980**	**0.8910**	**0.7484**	**5.3500e-003**		**0.0677**	**0.0677**		**0.0677**	**0.0677**	**0.0000**	**969.9619**	**969.9619**	**0.0186**	**0.0178**	**975.7259**

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	tons/yr										MT/yr					
Arena	1.81764e+007	0.0980	0.8910	0.7484	5.3500e-003		0.0677	0.0677		0.0677	0.0677	0.0000	969.9619	969.9619	0.0186	0.0178	975.7259
Total		**0.0980**	**0.8910**	**0.7484**	**5.3500e-003**		**0.0677**	**0.0677**		**0.0677**	**0.0677**	**0.0000**	**969.9619**	**969.9619**	**0.0186**	**0.0178**	**975.7259**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	4,375.5157	0.0000	0.0000	4,375.5157
Total		**4,375.5157**	**0.0000**	**0.0000**	**4,375.5157**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.15117e+007	4,375.5157	0.0000	0.0000	4,375.5157
Total		**4,375.5157**	**0.0000**	**0.0000**	**4,375.5157**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Unmitigated	3.7438	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244

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	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Total	**3.7438**	**1.1000e-004**	**0.0119**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0228**	**0.0228**	**6.0000e-005**	**0.0000**	**0.0244**

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	tons/yr										MT/yr					
Architectural Coating	0.4255					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.3172					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.1400e-003	1.1000e-004	0.0119	0.0000		4.0000e-005	4.0000e-005		4.0000e-005	4.0000e-005	0.0000	0.0228	0.0228	6.0000e-005	0.0000	0.0244
Total	**3.7438**	**1.1000e-004**	**0.0119**	**0.0000**		**4.0000e-005**	**4.0000e-005**		**4.0000e-005**	**4.0000e-005**	**0.0000**	**0.0228**	**0.0228**	**6.0000e-005**	**0.0000**	**0.0244**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,189.1854	12.8856	0.3043	2,601.9954
Unmitigated	2,189.1854	12.8856	0.3043	2,601.9954

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	2,189.1854	12.8856	0.3043	2,601.9954
Total		**2,189.1854**	**12.8856**	**0.3043**	**2,601.9954**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	395.447 / 25.2413	2,189.1854	12.8856	0.3043	2,601.9954
Total		**2,189.1854**	**12.8856**	**0.3043**	**2,601.9954**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	240.3860	14.2064	0.0000	595.5460
Unmitigated	240.3860	14.2064	0.0000	595.5460

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
Total		**240.3860**	**14.2064**	**0.0000**	**595.5460**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	1184.22	240.3860	14.2064	0.0000	595.5460
Total		**240.3860**	**14.2064**	**0.0000**	**595.5460**

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

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

The Forum Existing Emissions

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	346.00	1000sqft	111.21	346,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2018
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	524.7	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

Project Characteristics - Existing emissions at The Forum. SCE CO2e intensity rate adjusted to 2018 per RPS mandates.

Land Use - Based on actual square footage.

Construction Phase - Operations run only.

Off-road Equipment - Operations run only.

Off-road Equipment - Operations run only.

Trips and VMT - Operations run only.

Architectural Coating - Operations run only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Renovated in 2014. CalEEMod defaults for energy usage.

Solid Waste - Based on 1.29 tons/1000 sq ft.

The Forum Existing Emissions - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	173,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	519,000.00	0.00
tblConstructionPhase	NumDays	220.00	0.00
tblConstructionPhase	NumDays	120.00	0.00
tblConstructionPhase	PhaseEndDate	12/23/2033	2/18/2033
tblConstructionPhase	PhaseEndDate	3/22/2019	10/5/2018
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	702.44	524.7
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	9.52	446.34
tblTripsAndVMT	WorkerTripNumber	29.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2033	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2018	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2033	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Energy	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	1,081.7354	1,081.7354	7.4000e-003	7.0700e-003	1,084.0286
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	90.6030	0.0000	90.6030	5.3545	0.0000	224.4651
Water						0.0000	0.0000		0.0000	0.0000	47.2856	487.0502	534.3358	4.8567	0.1147	689.9265
Total	**1.4501**	**0.3545**	**0.3022**	**2.1300e-003**	**0.0000**	**0.0270**	**0.0270**	**0.0000**	**0.0270**	**0.0270**	**137.8886**	**1,568.7942**	**1,706.6827**	**10.2186**	**0.1218**	**1,998.4293**

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	tons/yr										MT/yr					
Area	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Energy	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	1,081.7354	1,081.7354	7.4000e-003	7.0700e-003	1,084.0286
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	90.6030	0.0000	90.6030	5.3545	0.0000	224.4651
Water						0.0000	0.0000		0.0000	0.0000	47.2856	487.0502	534.3358	4.8567	0.1147	689.9265
Total	**1.4501**	**0.3545**	**0.3022**	**2.1300e-003**	**0.0000**	**0.0270**	**0.0270**	**0.0000**	**0.0270**	**0.0270**	**137.8886**	**1,568.7942**	**1,706.6827**	**10.2186**	**0.1218**	**1,998.4293**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	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	Site Preparation	Site Preparation	10/6/2018	10/5/2018	5	0	
2	Architectural Coating	Architectural Coating	2/19/2033	2/18/2033	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Architectural Coating	Air Compressors	0	0.00	78	0.48
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40

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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2018

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2033

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2033

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.547972	0.046127	0.199330	0.125604	0.017697	0.005953	0.018360	0.027618	0.002341	0.002583	0.004804	0.000667	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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	695.8404	695.8404	0.0000	0.0000	695.8404
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	695.8404	695.8404	0.0000	0.0000	695.8404
NaturalGas Mitigated	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
NaturalGas Unmitigated	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882

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	tons/yr										MT/yr					
Arena	7.2314e+006	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
Total		**0.0390**	**0.3545**	**0.2978**	**2.1300e-003**		**0.0269**	**0.0269**		**0.0269**	**0.0269**	**0.0000**	**385.8950**	**385.8950**	**7.4000e-003**	**7.0700e-003**	**388.1882**

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	tons/yr										MT/yr					
Arena	7.2314e+006	0.0390	0.3545	0.2978	2.1300e-003		0.0269	0.0269		0.0269	0.0269	0.0000	385.8950	385.8950	7.4000e-003	7.0700e-003	388.1882
Total		**0.0390**	**0.3545**	**0.2978**	**2.1300e-003**		**0.0269**	**0.0269**		**0.0269**	**0.0269**	**0.0000**	**385.8950**	**385.8950**	**7.4000e-003**	**7.0700e-003**	**388.1882**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	2.9237e +006	695.8404	0.0000	0.0000	695.8404
Total		**695.8404**	**0.0000**	**0.0000**	**695.8404**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	2.9237e +006	695.8404	0.0000	0.0000	695.8404
Total		**695.8404**	**0.0000**	**0.0000**	**695.8404**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Unmitigated	1.4111	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003

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	tons/yr										MT/yr					
Architectural Coating	0.1604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Total	**1.4111**	**4.0000e-005**	**4.4800e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.5900e-003**	**8.5900e-003**	**2.0000e-005**	**0.0000**	**9.1800e-003**

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	tons/yr										MT/yr					
Architectural Coating	0.1604					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	1.2503					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.3000e-004	4.0000e-005	4.4800e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	8.5900e-003	8.5900e-003	2.0000e-005	0.0000	9.1800e-003
Total	**1.4111**	**4.0000e-005**	**4.4800e-003**	**0.0000**		**2.0000e-005**	**2.0000e-005**		**2.0000e-005**	**2.0000e-005**	**0.0000**	**8.5900e-003**	**8.5900e-003**	**2.0000e-005**	**0.0000**	**9.1800e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	534.3358	4.8567	0.1147	689.9265
Unmitigated	534.3358	4.8567	0.1147	689.9265

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	149.046 / 9.5136	534.3358	4.8567	0.1147	689.9265
Total		**534.3358**	**4.8567**	**0.1147**	**689.9265**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	149.046 / 9.5136	534.3358	4.8567	0.1147	689.9265
Total		**534.3358**	**4.8567**	**0.1147**	**689.9265**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	90.6030	5.3545	0.0000	224.4651
Unmitigated	90.6030	5.3545	0.0000	224.4651

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	446.34	90.6030	5.3545	0.0000	224.4651
Total		**90.6030**	**5.3545**	**0.0000**	**224.4651**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	446.34	90.6030	5.3545	0.0000	224.4651
Total		**90.6030**	**5.3545**	**0.0000**	**224.4651**

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

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

Honda Center

Orange County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	650.00	1000sqft	208.93	650,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	30
Climate Zone	8			**Operational Year**	2018
Utility Company	Anaheim Public Utilities				
CO2 Intensity (lb/MWhr)	1203.54	**CH4 Intensity (lb/MWhr)**	0	**N2O Intensity (lb/MWhr)**	0

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Honda Center operational emissions. CO2e rate updated based on CURB model, based on 2017 APU power content label.

Land Use - Based Honda Center square footage

Construction Phase - Operational emissions only.

Off-road Equipment - Operational emissions only.

Off-road Equipment - Operational emissions only.

Trips and VMT - Operational emissions only.

Architectural Coating - Operational emissions only.

Vehicle Trips - Mobile sources calculated separately.

Energy Use - Based on actual energy consumption provided in Honda Center Enhancement Project EIR

Solid Waste - Solid waste generation based on 1.29 ton/1000 sq ft.

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	325,000.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	975,000.00	0.00
tblConstructionPhase	NumDays	330.00	0.00
tblConstructionPhase	NumDays	180.00	0.00
tblEnergyUse	LightingElect	2.99	10.43
tblEnergyUse	NT24E	3.83	13.35
tblEnergyUse	NT24NG	6.86	6.57
tblEnergyUse	T24E	1.63	5.68
tblEnergyUse	T24NG	14.04	13.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblOffRoadEquipment	UsageHours	8.00	0.00
tblProjectCharacteristics	CH4IntensityFactor	0.029	0
tblProjectCharacteristics	CO2IntensityFactor	1543.28	1203.54
tblProjectCharacteristics	N2OIntensityFactor	0.006	0
tblSolidWaste	SolidWasteGenerationRate	17.89	838.50
tblTripsAndVMT	WorkerTripNumber	55.00	0.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	SU_TR	10.71	0.00
tblVehicleTrips	WD_TR	10.71	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2040	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**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

	ROG	NOx	CO	SO2	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	tons/yr										MT/yr					
2019	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
2040	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
		Highest		

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	tons/yr										MT/yr					
Area	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Energy	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	11,149.9138	11,149.9138	0.0133	0.0128	11,154.0507
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	170.2079	0.0000	170.2079	10.0590	0.0000	421.6829
Water						0.0000	0.0000		0.0000	0.0000	88.8313	2,098.7487	2,187.5800	9.1238	0.2154	2,479.8747
Total	**2.7212**	**0.6396**	**0.5456**	**3.8400e-003**	**0.0000**	**0.0486**	**0.0486**	**0.0000**	**0.0486**	**0.0486**	**259.0392**	**13,248.6786**	**13,507.7178**	**19.1962**	**0.2282**	**14,055.6255**

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	tons/yr										MT/yr					
Area	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Energy	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	11,149.9138	11,149.9138	0.0133	0.0128	11,154.0507
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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	170.2079	0.0000	170.2079	10.0590	0.0000	421.6829
Water						0.0000	0.0000		0.0000	0.0000	88.8313	2,098.7487	2,187.5800	9.1238	0.2154	2,479.8747
Total	**2.7212**	**0.6396**	**0.5456**	**3.8400e-003**	**0.0000**	**0.0486**	**0.0486**	**0.0000**	**0.0486**	**0.0486**	**259.0392**	**13,248.6786**	**13,507.7178**	**19.1962**	**0.2282**	**14,055.6255**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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	Site Preparation	Site Preparation	2/23/2019	2/22/2019	5	0	
2	Architectural Coating	Architectural Coating	9/15/2040	9/14/2040	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Site Preparation	Rubber Tired Dozers	0	0.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	0	0.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	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
Site Preparation	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Site Preparation - 2019

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.2 Site Preparation - 2019

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	tons/yr										MT/yr					
Fugitive Dust	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2040

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 Architectural Coating - 2040

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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Arena	16.60	8.40	6.90	0.00	81.00	19.00	66	28	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.548103	0.044682	0.212159	0.122193	0.018321	0.005803	0.023836	0.015181	0.001595	0.001677	0.004786	0.000580	0.001085

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10,453.7562	10,453.7562	0.0000	0.0000	10,453.7562
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	10,453.7562	10,453.7562	0.0000	0.0000	10,453.7562
NaturalGas Mitigated	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
NaturalGas Unmitigated	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945

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	tons/yr										MT/yr					
Arena	1.30455e+007	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
Total		**0.0703**	**0.6395**	**0.5372**	**3.8400e-003**		**0.0486**	**0.0486**		**0.0486**	**0.0486**	**0.0000**	**696.1576**	**696.1576**	**0.0133**	**0.0128**	**700.2945**

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	tons/yr										MT/yr					
Arena	1.30455e+007	0.0703	0.6395	0.5372	3.8400e-003		0.0486	0.0486		0.0486	0.0486	0.0000	696.1576	696.1576	0.0133	0.0128	700.2945
Total		**0.0703**	**0.6395**	**0.5372**	**3.8400e-003**		**0.0486**	**0.0486**		**0.0486**	**0.0486**	**0.0000**	**696.1576**	**696.1576**	**0.0133**	**0.0128**	**700.2945**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.9149e+007	10,453.7562	0.0000	0.0000	10,453.7562
Total		**10,453.7562**	**0.0000**	**0.0000**	**10,453.7562**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	1.9149e+007	10,453.7562	0.0000	0.0000	10,453.7562
Total		**10,453.7562**	**0.0000**	**0.0000**	**10,453.7562**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Unmitigated	2.6509	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172

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	tons/yr										MT/yr					
Architectural Coating	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Total	**2.6509**	**8.0000e-005**	**8.4100e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0161**	**0.0161**	**4.0000e-005**	**0.0000**	**0.0172**

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	tons/yr										MT/yr					
Architectural Coating	0.3013					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.3488					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-004	8.0000e-005	8.4100e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0000	0.0161	0.0161	4.0000e-005	0.0000	0.0172
Total	**2.6509**	**8.0000e-005**	**8.4100e-003**	**0.0000**		**3.0000e-005**	**3.0000e-005**		**3.0000e-005**	**3.0000e-005**	**0.0000**	**0.0161**	**0.0161**	**4.0000e-005**	**0.0000**	**0.0172**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2,187.5800	9.1238	0.2154	2,479.8747
Unmitigated	2,187.5800	9.1238	0.2154	2,479.8747

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	280.001 / 17.8724	2,187.5800	9.1238	0.2154	2,479.8747
Total		**2,187.5800**	**9.1238**	**0.2154**	**2,479.8747**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	280.001 / 17.8724	2,187.5800	9.1238	0.2154	2,479.8747
Total		**2,187.5800**	**9.1238**	**0.2154**	**2,479.8747**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	170.2079	10.0590	0.0000	421.6829
Unmitigated	170.2079	10.0590	0.0000	421.6829

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	838.5	170.2079	10.0590	0.0000	421.6829
Total		**170.2079**	**10.0590**	**0.0000**	**421.6829**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	838.5	170.2079	10.0590	0.0000	421.6829
Total		**170.2079**	**10.0590**	**0.0000**	**421.6829**

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

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

Construction

CalEEMod Run Outputs

IBEC Construction - Run 1 (Tier 4 Final Equipment)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	71.00	1000sqft	1.50	71,000.00	0
Government (Civic Center)	15.00	1000sqft	0.50	15,000.00	0
Medical Office Building	25.00	1000sqft	0.50	25,000.00	0
Arena	915.00	1000sqft	7.60	915,000.00	0
Fast Food Restaurant w/o Drive Thru	9.00	1000sqft	1.00	9,000.00	0
Health Club	85.00	1000sqft	1.00	85,000.00	0
Hotel	150.00	Room	5.00	217,800.00	0
Quality Restaurant	15.00	1000sqft	1.00	15,000.00	0
Strip Mall	24.00	1000sqft	1.00	24,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction Analysis for Operational Year 2024

Land Use - Land uses provided by the applicant.

Construction Phase - Construction phases and schedule provided by applicant.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Added project-specific construction equipment for the Building Construction phase.

Off-road Equipment - Added project-specific construction equipment for the Demolition phase.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.
Added project-specific construction equipment for the Excavation/Grading - Excavation/Retention System phase.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Trips and VMT - Project-specific construction trips.

Demolition - 5,175 tons of Demolition debris

Grading - 332,700 cubic yards of material exported during Excavation/Grading activties.

Vehicle Trips - Operational trip rates set to zero, as Operational emissions will be calculated in a separate CalEEMod run.

Area Coating - Operational inputs set to zero, as Operational emissions will be calculated in a separate CalEEMod run.

Energy Use - Operational inputs set to zero, as Operational emissions will be calculated in a separate CalEEMod run

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected. All construction equipment required to meet Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	8.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	7.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
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tblConstructionPhase	NumDays	10.00	208.00
tblConstructionPhase	NumDays	30.00	172.00
tblConstructionPhase	NumDays	300.00	501.00
tblConstructionPhase	NumDays	20.00	459.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	2.99	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	2.99	0.00

tblEnergyUse	LightingElect	3.03	0.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	LightingElect	7.66	0.00
tblEnergyUse	LightingElect	5.71	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	3.83	0.00
tblEnergyUse	NT24E	3.24	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24E	20.11	0.00
tblEnergyUse	NT24E	2.80	0.00
tblEnergyUse	T24E	1.63	0.00
tblEnergyUse	T24E	8.71	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24E	4.71	0.00
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tblEnergyUse	T24E	2.77	0.00
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tblEnergyUse	T24E	2.93	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	78.56	0.00
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tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	14.04	0.00
tblEnergyUse	T24NG	29.10	0.00
tblEnergyUse	T24NG	8.59	0.00
tblEnergyUse	T24NG	78.56	0.00

tblEnergyUse	T24NG	0.95	0.00
tblGrading	MaterialExported	0.00	332,700.00
tblLandUse	LotAcreage	1.63	1.50
tblLandUse	LotAcreage	0.34	0.50
tblLandUse	LotAcreage	0.57	0.50
tblLandUse	LotAcreage	294.11	7.60
tblLandUse	LotAcreage	0.21	1.00
tblLandUse	LotAcreage	1.95	1.00
tblLandUse	LotAcreage	0.34	1.00
tblLandUse	LotAcreage	0.55	1.00
tblOffRoadEquipment	HorsePower	158.00	200.00
tblOffRoadEquipment	HorsePower	158.00	200.00
tblOffRoadEquipment	HorsePower	247.00	215.00
tblOffRoadEquipment	HorsePower	212.00	275.00
tblOffRoadEquipment	HorsePower	65.00	230.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	8.00
tblOffRoadEquipment	UsageHours	6.00	14.00
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tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
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tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00

tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
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tblOffRoadEquipment	UsageHours	8.00	14.00
tblTripsAndVMT	HaulingTripNumber	512.00	4,200.00
tblTripsAndVMT	HaulingTripNumber	0.00	15.00
tblTripsAndVMT	HaulingTripNumber	41,588.00	51,072.00
tblTripsAndVMT	HaulingTripNumber	0.00	4,224.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	VendorTripNumber	0.00	2.00
tblTripsAndVMT	WorkerTripNumber	20.00	40.00
tblTripsAndVMT	WorkerTripNumber	18.00	40.00
tblTripsAndVMT	WorkerTripNumber	565.00	800.00
tblTripsAndVMT	WorkerTripNumber	113.00	1,200.00
tblVehicleTrips	ST_TR	10.71	0.00
tblVehicleTrips	ST_TR	696.00	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	ST_TR	20.87	0.00
tblVehicleTrips	ST_TR	8.19	0.00
tblVehicleTrips	ST_TR	8.96	0.00
tblVehicleTrips	ST_TR	94.36	0.00
tblVehicleTrips	ST_TR	42.04	0.00
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tblVehicleTrips	SU_TR	500.00	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	SU_TR	26.73	0.00
tblVehicleTrips	SU_TR	5.95	0.00

tblVehicleTrips	SU_TR	1.55	0.00
tblVehicleTrips	SU_TR	72.16	0.00
tblVehicleTrips	SU_TR	20.43	0.00
tblVehicleTrips	WD_TR	10.71	0.00
tblVehicleTrips	WD_TR	716.00	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblVehicleTrips	WD_TR	27.92	0.00
tblVehicleTrips	WD_TR	32.93	0.00
tblVehicleTrips	WD_TR	8.17	0.00
tblVehicleTrips	WD_TR	36.13	0.00
tblVehicleTrips	WD_TR	89.95	0.00
tblVehicleTrips	WD_TR	44.32	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2021	1.0493	12.5399	6.5248	0.0189	3.6691	0.4857	4.1547	1.6796	0.4477	2.1274	0.0000	1,740.3692	1,740.3692	0.3654	0.0000	1,749.5042
2022	2.6389	25.3522	17.6659	0.0610	3.7659	0.7972	4.5631	1.3520	0.7380	2.0900	0.0000	5,608.4929	5,608.4929	0.8787	0.0000	5,630.4592
2023	6.4517	12.5186	17.0334	0.0527	3.3415	0.4555	3.7970	0.8915	0.4244	1.3158	0.0000	4,761.5435	4,761.5435	0.4931	0.0000	4,773.8711
2024	2.0663	0.3708	2.5418	7.9400e-003	0.8350	0.0154	0.8504	0.2218	0.0149	0.2367	0.0000	716.5727	716.5727	0.0187	0.0000	717.0391
Maximum	**6.4517**	**25.3522**	**17.6659**	**0.0610**	**3.7659**	**0.7972**	**4.5631**	**1.6796**	**0.7380**	**2.1274**	**0.0000**	**5,608.4929**	**5,608.4929**	**0.8787**	**0.0000**	**5,630.4592**

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	tons/yr										MT/yr					
2021	0.2365	3.1412	6.8814	0.0189	1.7058	0.0265	1.7322	0.7260	0.0261	0.7521	0.0000	1,740.3680	1,740.3680	0.3654	0.0000	1,749.5030
2022	1.3136	9.6847	19.9545	0.0610	2.6271	0.0720	2.6991	0.8381	0.0703	0.9084	0.0000	5,608.4901	5,608.4901	0.8787	0.0000	5,630.4565
2023	5.6826	3.9517	18.4908	0.0527	3.3415	0.0522	3.3937	0.8915	0.0501	0.9416	0.0000	4,761.5419	4,761.5419	0.4931	0.0000	4,773.8694
2024	2.0439	0.2093	2.5451	7.9400e-003	0.8350	6.9700e-003	0.8420	0.2218	6.4600e-003	0.2282	0.0000	716.5727	716.5727	0.0187	0.0000	717.0391
Maximum	**5.6826**	**9.6847**	**19.9545**	**0.0610**	**3.3415**	**0.0720**	**3.3937**	**0.8915**	**0.0703**	**0.9416**	**0.0000**	**5,608.4901**	**5,608.4901**	**0.8787**	**0.0000**	**5,630.4565**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**24.00**	**66.55**	**-9.38**	**0.00**	**26.72**	**91.02**	**35.15**	**35.41**	**90.58**	**50.95**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	7-1-2021	9-30-2021	5.7410	0.9445
2	10-1-2021	12-31-2021	7.7177	2.3464
3	1-1-2022	3-31-2022	9.4088	3.8419
4	4-1-2022	6-30-2022	8.7457	3.5726
5	7-1-2022	9-30-2022	4.6275	1.5122
6	10-1-2022	12-31-2022	5.0501	1.9013
7	1-1-2023	3-31-2023	5.5448	2.6606
8	4-1-2023	6-30-2023	5.5529	2.6366
9	7-1-2023	9-30-2023	5.6139	2.6656
10	10-1-2023	12-31-2023	2.2740	1.6597
11	1-1-2024	3-31-2024	1.5128	1.3999
12	4-1-2024	6-30-2024	0.9280	0.8572
		Highest	9.4088	3.8419

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	7/1/2021	8/31/2021	6	53	
2	Site Preparation - Initial Site Development	Site Preparation	7/1/2021	2/28/2022	6	208	
3	Excavation/Grading - Excavation/Retention System	Grading	11/8/2021	5/26/2022	6	172	
4	Building Construction	Building Construction	3/11/2022	10/16/2023	6	501	
5	Architectural Coating	Architectural Coating	12/9/2022	5/27/2024	6	459	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 2,065,200; Non-Residential Outdoor: 688,400; Striped Parking

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	14.00	81	0.73
Demolition	Crawler Tractors	1	14.00	275	0.43
Demolition	Excavators	3	14.00	158	0.38
Demolition	Excavators	1	14.00	200	0.38
Demolition	Rubber Tired Dozers	2	14.00	247	0.40
Site Preparation - Initial Site Development	Rubber Tired Dozers	3	14.00	247	0.40
Site Preparation - Initial Site Development	Tractors/Loaders/Backhoes	4	14.00	97	0.37
Excavation/Grading - Excavation/Retention System	Bore/Drill Rigs	1	14.00	221	0.50
Excavation/Grading - Excavation/Retention System	Excavators	2	14.00	158	0.38
Excavation/Grading - Excavation/Retention System	Excavators	1	14.00	200	0.38
Excavation/Grading - Excavation/Retention System	Graders	1	14.00	187	0.41
Excavation/Grading - Excavation/Retention System	Rubber Tired Dozers	1	14.00	247	0.40
Excavation/Grading - Excavation/Retention System	Rubber Tired Dozers	1	14.00	215	0.40
Excavation/Grading - Excavation/Retention System	Scrapers	2	14.00	367	0.48
Excavation/Grading - Excavation/Retention System	Skid Steer Loaders	1	14.00	230	0.37
Excavation/Grading - Excavation/Retention System	Tractors/Loaders/Backhoes	2	14.00	97	0.37
Building Construction	Cranes	8	14.00	231	0.29
Building Construction	Forklifts	3	14.00	89	0.20
Building Construction	Generator Sets	1	14.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Building Construction	Welders	1	14.00	46	0.45
Architectural Coating	Air Compressors	1	14.00	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
Demolition	8	40.00	2.00	4,200.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation - Initial Site	7	40.00	0.00	15.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Excavation/Grading - Excavation/Retention	12	30.00	2.00	51,072.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	16	800.00	226.00	4,224.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1,200.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 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	tons/yr										MT/yr					
Fugitive Dust					0.0554	0.0000	0.0554	8.3800e-003	0.0000	8.3800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1843	1.8810	1.2645	2.5800e-003		0.0877	0.0877		0.0813	0.0813	0.0000	225.9160	225.9160	0.0665	0.0000	227.5772
Total	**0.1843**	**1.8810**	**1.2645**	**2.5800e-003**	**0.0554**	**0.0877**	**0.1430**	**8.3800e-003**	**0.0813**	**0.0897**	**0.0000**	**225.9160**	**225.9160**	**0.0665**	**0.0000**	**227.5772**

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	tons/yr										MT/yr					
Hauling	0.0177	0.5813	0.1356	1.6300e-003	0.0361	1.7400e-003	0.0378	9.9100e-003	1.6600e-003	0.0116	0.0000	160.0822	160.0822	0.0111	0.0000	160.3600
Vendor	1.6000e-004	5.2300e-003	1.4200e-003	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3064	1.3064	8.0000e-005	0.0000	1.3084
Worker	4.5600e-003	3.5500e-003	0.0401	1.2000e-004	0.0116	1.0000e-004	0.0117	3.0900e-003	9.0000e-005	3.1700e-003	0.0000	10.4825	10.4825	3.1000e-004	0.0000	10.4902
Total	**0.0224**	**0.5901**	**0.1771**	**1.7600e-003**	**0.0480**	**1.8500e-003**	**0.0499**	**0.0131**	**1.7600e-003**	**0.0149**	**0.0000**	**171.8712**	**171.8712**	**0.0115**	**0.0000**	**172.1587**

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	tons/yr										MT/yr					
Fugitive Dust					0.0216	0.0000	0.0216	3.2700e-003	0.0000	3.2700e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0310	0.1342	1.4291	2.5800e-003		4.1300e-003	4.1300e-003		4.1300e-003	4.1300e-003	0.0000	225.9157	225.9157	0.0665	0.0000	227.5769
Total	**0.0310**	**0.1342**	**1.4291**	**2.5800e-003**	**0.0216**	**4.1300e-003**	**0.0257**	**3.2700e-003**	**4.1300e-003**	**7.4000e-003**	**0.0000**	**225.9157**	**225.9157**	**0.0665**	**0.0000**	**227.5769**

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	tons/yr										MT/yr					
Hauling	0.0177	0.5813	0.1356	1.6300e-003	0.0361	1.7400e-003	0.0378	9.9100e-003	1.6600e-003	0.0116	0.0000	160.0822	160.0822	0.0111	0.0000	160.3600
Vendor	1.6000e-004	5.2300e-003	1.4200e-003	1.0000e-005	3.3000e-004	1.0000e-005	3.4000e-004	1.0000e-004	1.0000e-005	1.1000e-004	0.0000	1.3064	1.3064	8.0000e-005	0.0000	1.3084
Worker	4.5600e-003	3.5500e-003	0.0401	1.2000e-004	0.0116	1.0000e-004	0.0117	3.0900e-003	9.0000e-005	3.1700e-003	0.0000	10.4825	10.4825	3.1000e-004	0.0000	10.4902
Total	**0.0224**	**0.5901**	**0.1771**	**1.7600e-003**	**0.0480**	**1.8500e-003**	**0.0499**	**0.0131**	**1.7600e-003**	**0.0149**	**0.0000**	**171.8712**	**171.8712**	**0.0115**	**0.0000**	**172.1587**

3.3 Site Preparation - Initial Site Development - 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	tons/yr										MT/yr					
Fugitive Dust					2.4977	0.0000	2.4977	1.3729	0.0000	1.3729	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5375	5.5987	2.9246	5.2600e-003		0.2827	0.2827		0.2600	0.2600	0.0000	462.2488	462.2488	0.1495	0.0000	465.9863
Total	**0.5375**	**5.5987**	**2.9246**	**5.2600e-003**	**2.4977**	**0.2827**	**2.7803**	**1.3729**	**0.2600**	**1.6330**	**0.0000**	**462.2488**	**462.2488**	**0.1495**	**0.0000**	**465.9863**

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	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5800e-003	3.7000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4343	0.4343	3.0000e-005	0.0000	0.4350
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	0.0000	0.0000
Worker	0.0136	0.0106	0.1195	3.5000e-004	0.0346	2.9000e-004	0.0349	9.2000e-003	2.6000e-004	9.4600e-003	0.0000	31.2498	31.2498	9.2000e-004	0.0000	31.2728
Total	**0.0137**	**0.0122**	**0.1199**	**3.5000e-004**	**0.0348**	**2.9000e-004**	**0.0350**	**9.2300e-003**	**2.6000e-004**	**9.5000e-003**	**0.0000**	**31.6841**	**31.6841**	**9.5000e-004**	**0.0000**	**31.7078**

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	tons/yr										MT/yr					
Fugitive Dust					0.9741	0.0000	0.9741	0.5354	0.0000	0.5354	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0644	0.2789	2.8851	5.2600e-003		8.5800e-003	8.5800e-003		8.5800e-003	8.5800e-003	0.0000	462.2482	462.2482	0.1495	0.0000	465.9858
Total	**0.0644**	**0.2789**	**2.8851**	**5.2600e-003**	**0.9741**	**8.5800e-003**	**0.9827**	**0.5354**	**8.5800e-003**	**0.5440**	**0.0000**	**462.2482**	**462.2482**	**0.1495**	**0.0000**	**465.9858**

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	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5800e-003	3.7000e-004	0.0000	1.2000e-004	0.0000	1.3000e-004	3.0000e-005	0.0000	4.0000e-005	0.0000	0.4343	0.4343	3.0000e-005	0.0000	0.4350
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	0.0000	0.0000
Worker	0.0136	0.0106	0.1195	3.5000e-004	0.0346	2.9000e-004	0.0349	9.2000e-003	2.6000e-004	9.4600e-003	0.0000	31.2498	31.2498	9.2000e-004	0.0000	31.2728
Total	**0.0137**	**0.0122**	**0.1199**	**3.5000e-004**	**0.0348**	**2.9000e-004**	**0.0350**	**9.2300e-003**	**2.6000e-004**	**9.5000e-003**	**0.0000**	**31.6841**	**31.6841**	**9.5000e-004**	**0.0000**	**31.7078**

3.3 Site Preparation - Initial Site Development - 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	tons/yr										MT/yr					
Fugitive Dust					0.7904	0.0000	0.7904	0.4345	0.0000	0.4345	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1387	1.4474	0.8618	1.6600e-003		0.0706	0.0706		0.0649	0.0649	0.0000	146.2973	146.2973	0.0473	0.0000	147.4802
Total	**0.1387**	**1.4474**	**0.8618**	**1.6600e-003**	**0.7904**	**0.0706**	**0.8610**	**0.4345**	**0.0649**	**0.4994**	**0.0000**	**146.2973**	**146.2973**	**0.0473**	**0.0000**	**147.4802**

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	tons/yr										MT/yr					
Hauling	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1358	0.1358	1.0000e-005	0.0000	0.1360
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	0.0000	0.0000
Worker	4.0300e-003	3.0300e-003	0.0348	1.1000e-004	0.0110	9.0000e-005	0.0111	2.9100e-003	8.0000e-005	2.9900e-003	0.0000	9.5416	9.5416	2.6000e-004	0.0000	9.5481
Total	**4.0400e-003**	**3.4900e-003**	**0.0350**	**1.1000e-004**	**0.0111**	**9.0000e-005**	**0.0112**	**2.9400e-003**	**8.0000e-005**	**3.0200e-003**	**0.0000**	**9.6774**	**9.6774**	**2.7000e-004**	**0.0000**	**9.6842**

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	tons/yr										MT/yr					
Fugitive Dust					0.3083	0.0000	0.3083	0.1694	0.0000	0.1694	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0204	0.0883	0.9130	1.6600e-003		2.7200e-003	2.7200e-003		2.7200e-003	2.7200e-003	0.0000	146.2972	146.2972	0.0473	0.0000	147.4801
Total	**0.0204**	**0.0883**	**0.9130**	**1.6600e-003**	**0.3083**	**2.7200e-003**	**0.3110**	**0.1694**	**2.7200e-003**	**0.1722**	**0.0000**	**146.2972**	**146.2972**	**0.0473**	**0.0000**	**147.4801**

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	tons/yr										MT/yr					
Hauling	1.0000e-005	4.6000e-004	1.2000e-004	0.0000	1.0000e-004	0.0000	1.1000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1358	0.1358	1.0000e-005	0.0000	0.1360
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	0.0000	0.0000
Worker	4.0300e-003	3.0300e-003	0.0348	1.1000e-004	0.0110	9.0000e-005	0.0111	2.9100e-003	8.0000e-005	2.9900e-003	0.0000	9.5416	9.5416	2.6000e-004	0.0000	9.5481
Total	**4.0400e-003**	**3.4900e-003**	**0.0350**	**1.1000e-004**	**0.0111**	**9.0000e-005**	**0.0112**	**2.9400e-003**	**8.0000e-005**	**3.0200e-003**	**0.0000**	**9.6774**	**9.6774**	**2.7000e-004**	**0.0000**	**9.6842**

3.4 Excavation/Grading - Excavation/Retention System - 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	tons/yr										MT/yr					
Fugitive Dust					0.6655	0.0000	0.6655	0.1821	0.0000	0.1821	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.2294	2.5193	1.5605	3.5100e-003		0.1074	0.1074		0.0988	0.0988	0.0000	308.5991	308.5991	0.0998	0.0000	311.0943
Total	**0.2294**	**2.5193**	**1.5605**	**3.5100e-003**	**0.6655**	**0.1074**	**0.7728**	**0.1821**	**0.0988**	**0.2808**	**0.0000**	**308.5991**	**308.5991**	**0.0998**	**0.0000**	**311.0943**

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	tons/yr										MT/yr					
Hauling	0.0588	1.9317	0.4504	5.4000e-003	0.3597	5.7800e-003	0.3655	0.0918	5.5300e-003	0.0973	0.0000	531.9197	531.9197	0.0369	0.0000	532.8427
Vendor	1.5000e-004	4.6400e-003	1.2600e-003	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1585	1.1585	7.0000e-005	0.0000	1.1603
Worker	3.0300e-003	2.3600e-003	0.0267	8.0000e-005	7.7300e-003	6.0000e-005	7.7900e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9719	6.9719	2.1000e-004	0.0000	6.9770
Total	**0.0620**	**1.9387**	**0.4783**	**5.4900e-003**	**0.3678**	**5.8500e-003**	**0.3736**	**0.0939**	**5.6000e-003**	**0.0995**	**0.0000**	**540.0501**	**540.0501**	**0.0372**	**0.0000**	**540.9800**

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	tons/yr										MT/yr					
Fugitive Dust					0.2595	0.0000	0.2595	0.0710	0.0000	0.0710	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0432	0.1871	1.7919	3.5100e-003		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	308.5988	308.5988	0.0998	0.0000	311.0939
Total	**0.0432**	**0.1871**	**1.7919**	**3.5100e-003**	**0.2595**	**5.7600e-003**	**0.2653**	**0.0710**	**5.7600e-003**	**0.0768**	**0.0000**	**308.5988**	**308.5988**	**0.0998**	**0.0000**	**311.0939**

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	tons/yr										MT/yr					
Hauling	0.0588	1.9317	0.4504	5.4000e-003	0.3597	5.7800e-003	0.3655	0.0918	5.5300e-003	0.0973	0.0000	531.9197	531.9197	0.0369	0.0000	532.8427
Vendor	1.5000e-004	4.6400e-003	1.2600e-003	1.0000e-005	3.0000e-004	1.0000e-005	3.1000e-004	9.0000e-005	1.0000e-005	9.0000e-005	0.0000	1.1585	1.1585	7.0000e-005	0.0000	1.1603
Worker	3.0300e-003	2.3600e-003	0.0267	8.0000e-005	7.7300e-003	6.0000e-005	7.7900e-003	2.0500e-003	6.0000e-005	2.1100e-003	0.0000	6.9719	6.9719	2.1000e-004	0.0000	6.9770
Total	**0.0620**	**1.9387**	**0.4783**	**5.4900e-003**	**0.3678**	**5.8500e-003**	**0.3736**	**0.0939**	**5.6000e-003**	**0.0995**	**0.0000**	**540.0501**	**540.0501**	**0.0372**	**0.0000**	**540.9800**

3.4 Excavation/Grading - Excavation/Retention System - 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	tons/yr										MT/yr					
Fugitive Dust					1.0765	0.0000	1.0765	0.4080	0.0000	0.4080	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.5224	5.5368	3.9007	9.3500e-003		0.2329	0.2329		0.2143	0.2143	0.0000	821.3300	821.3300	0.2656	0.0000	827.9709
Total	**0.5224**	**5.5368**	**3.9007**	**9.3500e-003**	**1.0765**	**0.2329**	**1.3094**	**0.4080**	**0.2143**	**0.6223**	**0.0000**	**821.3300**	**821.3300**	**0.2656**	**0.0000**	**827.9709**

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	tons/yr										MT/yr					
Hauling	0.1488	4.7681	1.1846	0.0142	0.4091	0.0134	0.4225	0.1097	0.0128	0.1225	0.0000	1,397.8570	1,397.8570	0.0967	0.0000	1,400.2737
Vendor	3.6000e-004	0.0117	3.1600e-003	3.0000e-005	7.9000e-004	2.0000e-005	8.1000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	3.0541	3.0541	1.8000e-004	0.0000	3.0587
Worker	7.5700e-003	5.6700e-003	0.0653	2.0000e-004	0.0206	1.6000e-004	0.0207	5.4600e-003	1.5000e-004	5.6100e-003	0.0000	17.8904	17.8904	4.9000e-004	0.0000	17.9027
Total	**0.1567**	**4.7855**	**1.2531**	**0.0144**	**0.4305**	**0.0135**	**0.4440**	**0.1154**	**0.0130**	**0.1284**	**0.0000**	**1,418.8016**	**1,418.8016**	**0.0973**	**0.0000**	**1,421.2352**

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	tons/yr										MT/yr					
Fugitive Dust					0.4198	0.0000	0.4198	0.1591	0.0000	0.1591	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1148	0.4976	4.7657	9.3500e-003		0.0153	0.0153		0.0153	0.0153	0.0000	821.3290	821.3290	0.2656	0.0000	827.9699
Total	**0.1148**	**0.4976**	**4.7657**	**9.3500e-003**	**0.4198**	**0.0153**	**0.4351**	**0.1591**	**0.0153**	**0.1744**	**0.0000**	**821.3290**	**821.3290**	**0.2656**	**0.0000**	**827.9699**

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	tons/yr										MT/yr					
Hauling	0.1488	4.7681	1.1846	0.0142	0.4091	0.0134	0.4225	0.1097	0.0128	0.1225	0.0000	1,397.8570	1,397.8570	0.0967	0.0000	1,400.2737
Vendor	3.6000e-004	0.0117	3.1600e-003	3.0000e-005	7.9000e-004	2.0000e-005	8.1000e-004	2.3000e-004	2.0000e-005	2.5000e-004	0.0000	3.0541	3.0541	1.8000e-004	0.0000	3.0587
Worker	7.5700e-003	5.6700e-003	0.0653	2.0000e-004	0.0206	1.6000e-004	0.0207	5.4600e-003	1.5000e-004	5.6100e-003	0.0000	17.8904	17.8904	4.9000e-004	0.0000	17.9027
Total	**0.1567**	**4.7855**	**1.2531**	**0.0144**	**0.4305**	**0.0135**	**0.4440**	**0.1154**	**0.0130**	**0.1284**	**0.0000**	**1,418.8016**	**1,418.8016**	**0.0973**	**0.0000**	**1,421.2352**

3.5 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	tons/yr										MT/yr					
Off-Road	0.9836	10.2362	6.8199	0.0154		0.4624	0.4624		0.4292	0.4292	0.0000	1,340.5762	1,340.5762	0.3904	0.0000	1,350.3359
Total	**0.9836**	**10.2362**	**6.8199**	**0.0154**		**0.4624**	**0.4624**		**0.4292**	**0.4292**	**0.0000**	**1,340.5762**	**1,340.5762**	**0.3904**	**0.0000**	**1,350.3359**

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	tons/yr										MT/yr					
Hauling	8.5800e-003	0.2751	0.0684	8.2000e-004	0.0319	7.7000e-004	0.0326	8.3600e-003	7.4000e-004	9.0900e-003	0.0000	80.6526	80.6526	5.5800e-003	0.0000	80.7920
Vendor	0.0837	2.6911	0.7266	7.2300e-003	0.1808	5.0500e-003	0.1859	0.0522	4.8300e-003	0.0570	0.0000	701.2804	701.2804	0.0419	0.0000	702.3275
Worker	0.4099	0.3074	3.5401	0.0107	1.1133	8.8900e-003	1.1222	0.2957	8.1900e-003	0.3039	0.0000	969.4213	969.4213	0.0267	0.0000	970.0887
Total	**0.5022**	**3.2737**	**4.3350**	**0.0188**	**1.3260**	**0.0147**	**1.3407**	**0.3562**	**0.0138**	**0.3700**	**0.0000**	**1,751.3542**	**1,751.3542**	**0.0742**	**0.0000**	**1,753.2082**

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	tons/yr										MT/yr					
Off-Road	0.1883	0.9968	8.1918	0.0154		0.0245	0.0245		0.0245	0.0245	0.0000	1,340.5746	1,340.5746	0.3904	0.0000	1,350.3343
Total	**0.1883**	**0.9968**	**8.1918**	**0.0154**		**0.0245**	**0.0245**		**0.0245**	**0.0245**	**0.0000**	**1,340.5746**	**1,340.5746**	**0.3904**	**0.0000**	**1,350.3343**

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	tons/yr										MT/yr					
Hauling	8.5800e-003	0.2751	0.0684	8.2000e-004	0.0319	7.7000e-004	0.0326	8.3600e-003	7.4000e-004	9.0900e-003	0.0000	80.6526	80.6526	5.5800e-003	0.0000	80.7920
Vendor	0.0837	2.6911	0.7266	7.2300e-003	0.1808	5.0500e-003	0.1859	0.0522	4.8300e-003	0.0570	0.0000	701.2804	701.2804	0.0419	0.0000	702.3275
Worker	0.4099	0.3074	3.5401	0.0107	1.1133	8.8900e-003	1.1222	0.2957	8.1900e-003	0.3039	0.0000	969.4213	969.4213	0.0267	0.0000	970.0887
Total	**0.5022**	**3.2737**	**4.3350**	**0.0188**	**1.3260**	**0.0147**	**1.3407**	**0.3562**	**0.0138**	**0.3700**	**0.0000**	**1,751.3542**	**1,751.3542**	**0.0742**	**0.0000**	**1,753.2082**

3.5 Building Construction - 2023

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	tons/yr										MT/yr					
Off-Road	0.8933	9.1089	6.5164	0.0150		0.4027	0.4027		0.3737	0.3737	0.0000	1,303.8123	1,303.8123	0.3788	0.0000	1,313.2830
Total	**0.8933**	**9.1089**	**6.5164**	**0.0150**		**0.4027**	**0.4027**		**0.3737**	**0.3737**	**0.0000**	**1,303.8123**	**1,303.8123**	**0.3788**	**0.0000**	**1,313.2830**

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	tons/yr										MT/yr					
Hauling	5.4800e-003	0.1755	0.0603	7.6000e-004	0.0317	3.1000e-004	0.0321	8.3100e-003	3.0000e-004	8.6100e-003	0.0000	75.1635	75.1635	5.0400e-003	0.0000	75.2894
Vendor	0.0604	1.9772	0.6340	6.8000e-003	0.1758	2.3100e-003	0.1781	0.0507	2.2100e-003	0.0530	0.0000	660.6044	660.6044	0.0360	0.0000	661.5042
Worker	0.3748	0.2704	3.1656	0.0100	1.0827	8.4000e-003	1.0911	0.2876	7.7300e-003	0.2953	0.0000	908.2086	908.2086	0.0234	0.0000	908.7931
Total	**0.4407**	**2.4231**	**3.8598**	**0.0176**	**1.2902**	**0.0110**	**1.3012**	**0.3466**	**0.0102**	**0.3569**	**0.0000**	**1,643.9764**	**1,643.9764**	**0.0644**	**0.0000**	**1,645.5868**

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	tons/yr										MT/yr					
Off-Road	0.1831	0.9694	7.9661	0.0150		0.0238	0.0238		0.0238	0.0238	0.0000	1,303.8108	1,303.8108	0.3788	0.0000	1,313.2815
Total	**0.1831**	**0.9694**	**7.9661**	**0.0150**		**0.0238**	**0.0238**		**0.0238**	**0.0238**	**0.0000**	**1,303.8108**	**1,303.8108**	**0.3788**	**0.0000**	**1,313.2815**

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	tons/yr										MT/yr					
Hauling	5.4800e-003	0.1755	0.0603	7.6000e-004	0.0317	3.1000e-004	0.0321	8.3100e-003	3.0000e-004	8.6100e-003	0.0000	75.1635	75.1635	5.0400e-003	0.0000	75.2894
Vendor	0.0604	1.9772	0.6340	6.8000e-003	0.1758	2.3100e-003	0.1781	0.0507	2.2100e-003	0.0530	0.0000	660.6044	660.6044	0.0360	0.0000	661.5042
Worker	0.3748	0.2704	3.1656	0.0100	1.0827	8.4000e-003	1.0911	0.2876	7.7300e-003	0.2953	0.0000	908.2086	908.2086	0.0234	0.0000	908.7931
Total	**0.4407**	**2.4231**	**3.8598**	**0.0176**	**1.2902**	**0.0110**	**1.3012**	**0.3466**	**0.0102**	**0.3569**	**0.0000**	**1,643.9764**	**1,643.9764**	**0.0644**	**0.0000**	**1,645.5868**

3.6 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	tons/yr										MT/yr					
Archit. Coating	0.2781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7700e-003	0.0329	0.0423	7.0000e-005		1.9100e-003	1.9100e-003		1.9100e-003	1.9100e-003	0.0000	5.9576	5.9576	3.9000e-004	0.0000	5.9673
Total	**0.2828**	**0.0329**	**0.0423**	**7.0000e-005**		**1.9100e-003**	**1.9100e-003**		**1.9100e-003**	**1.9100e-003**	**0.0000**	**5.9576**	**5.9576**	**3.9000e-004**	**0.0000**	**5.9673**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0484	0.0363	0.4181	1.2700e-003	0.1315	1.0500e-003	0.1326	0.0349	9.7000e-004	0.0359	0.0000	114.4986	114.4986	3.1500e-003	0.0000	114.5774
Total	**0.0484**	**0.0363**	**0.4181**	**1.2700e-003**	**0.1315**	**1.0500e-003**	**0.1326**	**0.0349**	**9.7000e-004**	**0.0359**	**0.0000**	**114.4986**	**114.4986**	**3.1500e-003**	**0.0000**	**114.5774**

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	tons/yr										MT/yr					
Archit. Coating	0.2781					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.9000e-004	3.0000e-003	0.0428	7.0000e-005		9.0000e-005	9.0000e-005		9.0000e-005	9.0000e-005	0.0000	5.9576	5.9576	3.9000e-004	0.0000	5.9673
Total	**0.2788**	**3.0000e-003**	**0.0428**	**7.0000e-005**		**9.0000e-005**	**9.0000e-005**		**9.0000e-005**	**9.0000e-005**	**0.0000**	**5.9576**	**5.9576**	**3.9000e-004**	**0.0000**	**5.9673**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.0484	0.0363	0.4181	1.2700e-003	0.1315	1.0500e-003	0.1326	0.0349	9.7000e-004	0.0359	0.0000	114.4986	114.4986	3.1500e-003	0.0000	114.5774
Total	**0.0484**	**0.0363**	**0.4181**	**1.2700e-003**	**0.1315**	**1.0500e-003**	**0.1326**	**0.0349**	**9.7000e-004**	**0.0359**	**0.0000**	**114.4986**	**114.4986**	**3.1500e-003**	**0.0000**	**114.5774**

3.6 Architectural Coating - 2023

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	tons/yr										MT/yr					
Archit. Coating	4.3377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0698	0.4743	0.6593	1.0800e-003		0.0258	0.0258		0.0258	0.0258	0.0000	92.9384	92.9384	5.5600e-003	0.0000	93.0774
Total	**4.4075**	**0.4743**	**0.6593**	**1.0800e-003**		**0.0258**	**0.0258**		**0.0258**	**0.0258**	**0.0000**	**92.9384**	**92.9384**	**5.5600e-003**	**0.0000**	**93.0774**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.7102	0.5124	5.9980	0.0190	2.0513	0.0159	2.0673	0.5448	0.0147	0.5595	0.0000	1,720.8163	1,720.8163	0.0443	0.0000	1,721.9238
Total	**0.7102**	**0.5124**	**5.9980**	**0.0190**	**2.0513**	**0.0159**	**2.0673**	**0.5448**	**0.0147**	**0.5595**	**0.0000**	**1,720.8163**	**1,720.8163**	**0.0443**	**0.0000**	**1,721.9238**

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	tons/yr										MT/yr					
Archit. Coating	4.3377					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0108	0.0469	0.6670	1.0800e-003		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003	0.0000	92.9383	92.9383	5.5600e-003	0.0000	93.0773
Total	**4.3486**	**0.0469**	**0.6670**	**1.0800e-003**		**1.4400e-003**	**1.4400e-003**		**1.4400e-003**	**1.4400e-003**	**0.0000**	**92.9383**	**92.9383**	**5.5600e-003**	**0.0000**	**93.0773**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.7102	0.5124	5.9980	0.0190	2.0513	0.0159	2.0673	0.5448	0.0147	0.5595	0.0000	1,720.8163	1,720.8163	0.0443	0.0000	1,721.9238
Total	**0.7102**	**0.5124**	**5.9980**	**0.0190**	**2.0513**	**0.0159**	**2.0673**	**0.5448**	**0.0147**	**0.5595**	**0.0000**	**1,720.8163**	**1,720.8163**	**0.0443**	**0.0000**	**1,721.9238**

3.6 Architectural Coating - 2024

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	tons/yr										MT/yr					
Archit. Coating	1.7657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0268	0.1806	0.2682	4.4000e-004		9.0300e-003	9.0300e-003		9.0300e-003	9.0300e-003	0.0000	37.8307	37.8307	2.1300e-003	0.0000	37.8840
Total	**1.7925**	**0.1806**	**0.2682**	**4.4000e-004**		**9.0300e-003**	**9.0300e-003**		**9.0300e-003**	**9.0300e-003**	**0.0000**	**37.8307**	**37.8307**	**2.1300e-003**	**0.0000**	**37.8840**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.2738	0.1902	2.2736	7.5000e-003	0.8350	6.3800e-003	0.8414	0.2218	5.8800e-003	0.2277	0.0000	678.7420	678.7420	0.0165	0.0000	679.1552
Total	**0.2738**	**0.1902**	**2.2736**	**7.5000e-003**	**0.8350**	**6.3800e-003**	**0.8414**	**0.2218**	**5.8800e-003**	**0.2277**	**0.0000**	**678.7420**	**678.7420**	**0.0165**	**0.0000**	**679.1552**

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	tons/yr										MT/yr					
Archit. Coating	1.7657					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.4000e-003	0.0191	0.2715	4.4000e-004		5.9000e-004	5.9000e-004		5.9000e-004	5.9000e-004	0.0000	37.8307	37.8307	2.1300e-003	0.0000	37.8839
Total	**1.7701**	**0.0191**	**0.2715**	**4.4000e-004**		**5.9000e-004**	**5.9000e-004**		**5.9000e-004**	**5.9000e-004**	**0.0000**	**37.8307**	**37.8307**	**2.1300e-003**	**0.0000**	**37.8839**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	0.2738	0.1902	2.2736	7.5000e-003	0.8350	6.3800e-003	0.8414	0.2218	5.8800e-003	0.2277	0.0000	678.7420	678.7420	0.0165	0.0000	679.1552
Total	**0.2738**	**0.1902**	**2.2736**	**7.5000e-003**	**0.8350**	**6.3800e-003**	**0.8414**	**0.2218**	**5.8800e-003**	**0.2277**	**0.0000**	**678.7420**	**678.7420**	**0.0165**	**0.0000**	**679.1552**

IBEC Construction - Run 2 (Tier 4 Final Equipment)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking Structure	650.00	Space	2.00	214,500.00	0
Other Non-Asphalt Surfaces	83.90	1000sqft	1.93	83,903.00	0
Parking Lot	420.00	Space	3.35	126,000.00	0
Unenclosed Parking Structure	3,149.00	Space	2.00	1,083,570.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Construction Analysis for Operational Year 2024 - Run 2

Land Use - Land uses provided by the applicant. Run 2 land uses only.

Construction Phase - Construction phases and schedule provided by applicant. Run 2: 1/23/2023 - 6/28/2024

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

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Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Off-road Equipment - Per applicant, construction activities will take place 14 hours per day.

Trips and VMT - Project-specific trips for worker trips in the paving phase, and vendor and haul trips for the building construction phase.

Vehicle Trips - Operational trip rates set to zero, as operational emissions are calculated in a separate CalEEMod run.

Area Coating - Operational inputs set to zero, as operational emissions are analyzed in a separate CalEEMod run.

Landscape Equipment - Operational inputs set to zero, as operational emissions are analyzed in a separate CalEEMod run.

Energy Use - Operational inputs set to zero, as operational emissions are analyzed in a separate CalEEMod run.

Construction Off-road Equipment Mitigation - Per SCAQMD Rule 403 minimum requirements, water exposure 3x per day selected. All construction equipment required to meet Tier 4 Final standards.

Table Name	Column Name	Default Value	New Value
tblAreaCoating	ReapplicationRatePercent	10	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	4.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	10.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final

tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	10.00	12.00
tblConstructionPhase	NumDays	20.00	35.00
tblConstructionPhase	NumDays	230.00	354.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDays	20.00	24.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	LightingElect	0.35	0.00
tblEnergyUse	LightingElect	1.75	0.00
tblEnergyUse	T24E	3.92	0.00
tblLandscapeEquipment	NumberSummerDays	250	1
tblLandUse	LandUseSquareFeet	260,000.00	214,500.00
tblLandUse	LandUseSquareFeet	83,900.00	83,903.00
tblLandUse	LandUseSquareFeet	168,000.00	126,000.00
tblLandUse	LandUseSquareFeet	1,259,600.00	1,083,570.00
tblLandUse	LotAcreage	5.85	2.00
tblLandUse	LotAcreage	3.78	3.35
tblLandUse	LotAcreage	28.34	2.00
tblOffRoadEquipment	UsageHours	6.00	14.00
tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00

tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	7.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblOffRoadEquipment	UsageHours	8.00	14.00
tblTripsAndVMT	HaulingTripNumber	0.00	7,424.00
tblTripsAndVMT	VendorTripNumber	247.00	21.00
tblTripsAndVMT	WorkerTripNumber	15.00	90.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2023	0.7592	5.0101	7.1100	0.0181	1.3264	0.2064	1.5328	0.4565	0.1931	0.6496	0.0000	1,622.1630	1,622.1630	0.2024	0.0000	1,627.2233
2024	0.5259	1.9428	3.1493	7.9400e-003	0.4595	0.0765	0.5360	0.1217	0.0717	0.1934	0.0000	713.7783	713.7783	0.0851	0.0000	715.9064
Maximum	**0.7592**	**5.0101**	**7.1100**	**0.0181**	**1.3264**	**0.2064**	**1.5328**	**0.4565**	**0.1931**	**0.6496**	**0.0000**	**1,622.1630**	**1,622.1630**	**0.2024**	**0.0000**	**1,627.2233**

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	tons/yr										MT/yr					
2023	0.4091	1.4093	7.5220	0.0181	1.0883	0.0193	1.1076	0.3300	0.0187	0.3487	0.0000	1,622.1623	1,622.1623	0.2024	0.0000	1,627.2225
2024	0.3930	0.6059	3.3404	7.9400e-003	0.4595	8.4800e-003	0.4680	0.1217	8.2200e-003	0.1299	0.0000	713.7780	713.7780	0.0851	0.0000	715.9061
Maximum	**0.4091**	**1.4093**	**7.5220**	**0.0181**	**1.0883**	**0.0193**	**1.1076**	**0.3300**	**0.0187**	**0.3487**	**0.0000**	**1,622.1623**	**1,622.1623**	**0.2024**	**0.0000**	**1,627.2225**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**CO2e**
Percent Reduction	**37.59**	**71.02**	**-5.88**	**0.00**	**13.33**	**90.18**	**23.84**	**21.88**	**89.83**	**43.22**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-23-2023**	**4-22-2023**	1.5043	0.3002
2	**4-23-2023**	**7-22-2023**	1.5182	0.5337
3	**7-23-2023**	**10-22-2023**	1.5393	0.5439
4	**10-23-2023**	**1-22-2024**	1.5319	0.5550
5	**1-23-2024**	**4-22-2024**	1.4436	0.5354
6	**4-23-2024**	**7-22-2024**	0.6619	0.3280
		Highest	1.5393	0.5550

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Site Preparation	Site Preparation	1/23/2023	2/4/2023	6	12	
2	Grading	Grading	2/5/2023	3/17/2023	6	35	
3	Building Construction	Building Construction	3/18/2023	5/3/2024	6	354	
4	Architectural Coating	Architectural Coating	5/4/2024	5/31/2024	6	24	
5	Paving	Paving	6/1/2024	6/28/2024	6	24	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 30.63

Acres of Paving: 9.28

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 90,478

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Site Preparation	Rubber Tired Dozers	3	14.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	14.00	97	0.37
Grading	Excavators	1	14.00	158	0.38
Grading	Graders	1	14.00	187	0.41
Grading	Rubber Tired Dozers	1	14.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Building Construction	Cranes	1	14.00	231	0.29
Building Construction	Forklifts	3	14.00	89	0.20
Building Construction	Generator Sets	1	14.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	14.00	97	0.37
Building Construction	Welders	1	14.00	46	0.45
Architectural Coating	Air Compressors	1	14.00	78	0.48
Paving	Pavers	2	14.00	130	0.42
Paving	Paving Equipment	2	14.00	132	0.36
Paving	Rollers	2	14.00	80	0.38

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
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	633.00	21.00	7,424.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	127.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	90.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Site Preparation - 2023

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	tons/yr										MT/yr					
Fugitive Dust					0.1897	0.0000	0.1897	0.1043	0.0000	0.1043	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0279	0.2890	0.1916	4.0000e-004		0.0133	0.0133		0.0122	0.0122	0.0000	35.1232	35.1232	0.0114	0.0000	35.4072
Total	**0.0279**	**0.2890**	**0.1916**	**4.0000e-004**	**0.1897**	**0.0133**	**0.2030**	**0.1043**	**0.0122**	**0.1165**	**0.0000**	**35.1232**	**35.1232**	**0.0114**	**0.0000**	**35.4072**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	3.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9928	0.9928	3.0000e-005	0.0000	0.9934
Total	**4.1000e-004**	**3.0000e-004**	**3.4600e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1900e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9928**	**0.9928**	**3.0000e-005**	**0.0000**	**0.9934**

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	tons/yr										MT/yr					
Fugitive Dust					0.0740	0.0000	0.0740	0.0407	0.0000	0.0407	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.8900e-003	0.0212	0.2191	4.0000e-004		6.5000e-004	6.5000e-004		6.5000e-004	6.5000e-004	0.0000	35.1232	35.1232	0.0114	0.0000	35.4072
Total	**4.8900e-003**	**0.0212**	**0.2191**	**4.0000e-004**	**0.0740**	**6.5000e-004**	**0.0746**	**0.0407**	**6.5000e-004**	**0.0413**	**0.0000**	**35.1232**	**35.1232**	**0.0114**	**0.0000**	**35.4072**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	4.1000e-004	3.0000e-004	3.4600e-003	1.0000e-005	1.1800e-003	1.0000e-005	1.1900e-003	3.1000e-004	1.0000e-005	3.2000e-004	0.0000	0.9928	0.9928	3.0000e-005	0.0000	0.9934
Total	**4.1000e-004**	**3.0000e-004**	**3.4600e-003**	**1.0000e-005**	**1.1800e-003**	**1.0000e-005**	**1.1900e-003**	**3.1000e-004**	**1.0000e-005**	**3.2000e-004**	**0.0000**	**0.9928**	**0.9928**	**3.0000e-005**	**0.0000**	**0.9934**

3.3 Grading - 2023

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	tons/yr										MT/yr					
Fugitive Dust					0.2007	0.0000	0.2007	0.1031	0.0000	0.1031	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0524	0.5493	0.4517	9.1000e-004		0.0237	0.0237		0.0218	0.0218	0.0000	79.8106	79.8106	0.0258	0.0000	80.4559
Total	**0.0524**	**0.5493**	**0.4517**	**9.1000e-004**	**0.2007**	**0.0237**	**0.2244**	**0.1031**	**0.0218**	**0.1250**	**0.0000**	**79.8106**	**79.8106**	**0.0258**	**0.0000**	**80.4559**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	1.0000e-003	7.2000e-004	8.4100e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4130	2.4130	6.0000e-005	0.0000	2.4146
Total	**1.0000e-003**	**7.2000e-004**	**8.4100e-003**	**3.0000e-005**	**2.8800e-003**	**2.0000e-005**	**2.9000e-003**	**7.6000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.4130**	**2.4130**	**6.0000e-005**	**0.0000**	**2.4146**

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	tons/yr										MT/yr					
Fugitive Dust					0.0783	0.0000	0.0783	0.0402	0.0000	0.0402	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0111	0.0482	0.5437	9.1000e-004		1.4800e-003	1.4800e-003		1.4800e-003	1.4800e-003	0.0000	79.8105	79.8105	0.0258	0.0000	80.4558
Total	**0.0111**	**0.0482**	**0.5437**	**9.1000e-004**	**0.0783**	**1.4800e-003**	**0.0797**	**0.0402**	**1.4800e-003**	**0.0417**	**0.0000**	**79.8105**	**79.8105**	**0.0258**	**0.0000**	**80.4558**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	1.0000e-003	7.2000e-004	8.4100e-003	3.0000e-005	2.8800e-003	2.0000e-005	2.9000e-003	7.6000e-004	2.0000e-005	7.8000e-004	0.0000	2.4130	2.4130	6.0000e-005	0.0000	2.4146
Total	**1.0000e-003**	**7.2000e-004**	**8.4100e-003**	**3.0000e-005**	**2.8800e-003**	**2.0000e-005**	**2.9000e-003**	**7.6000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.4130**	**2.4130**	**6.0000e-005**	**0.0000**	**2.4146**

3.4 Building Construction - 2023

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	tons/yr										MT/yr					
Off-Road	0.3617	3.3365	3.7411	6.2300e-003		0.1617	0.1617		0.1519	0.1519	0.0000	536.8569	536.8569	0.1308	0.0000	540.1264
Total	**0.3617**	**3.3365**	**3.7411**	**6.2300e-003**		**0.1617**	**0.1617**		**0.1519**	**0.1519**	**0.0000**	**536.8569**	**536.8569**	**0.1308**	**0.0000**	**540.1264**

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	tons/yr										MT/yr					
Hauling	0.0136	0.4366	0.1500	1.8900e-003	0.0590	7.8000e-004	0.0598	0.0158	7.5000e-004	0.0165	0.0000	186.9628	186.9628	0.0125	0.0000	187.2760
Vendor	5.6100e-003	0.1837	0.0589	6.3000e-004	0.0163	2.1000e-004	0.0166	4.7200e-003	2.0000e-004	4.9200e-003	0.0000	61.3836	61.3836	3.3400e-003	0.0000	61.4672
Worker	0.2966	0.2140	2.5048	7.9500e-003	0.8567	6.6500e-003	0.8633	0.2275	6.1200e-003	0.2337	0.0000	718.6201	718.6201	0.0185	0.0000	719.0826
Total	**0.3158**	**0.8343**	**2.7137**	**0.0105**	**0.9320**	**7.6400e-003**	**0.9396**	**0.2480**	**7.0700e-003**	**0.2551**	**0.0000**	**966.9665**	**966.9665**	**0.0344**	**0.0000**	**967.8258**

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	tons/yr										MT/yr					
Off-Road	0.0758	0.5046	4.0336	6.2300e-003		9.4800e-003	9.4800e-003		9.4800e-003	9.4800e-003	0.0000	536.8563	536.8563	0.1308	0.0000	540.1257
Total	**0.0758**	**0.5046**	**4.0336**	**6.2300e-003**		**9.4800e-003**	**9.4800e-003**		**9.4800e-003**	**9.4800e-003**	**0.0000**	**536.8563**	**536.8563**	**0.1308**	**0.0000**	**540.1257**

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	tons/yr										MT/yr					
Hauling	0.0136	0.4366	0.1500	1.8900e-003	0.0590	7.8000e-004	0.0598	0.0158	7.5000e-004	0.0165	0.0000	186.9628	186.9628	0.0125	0.0000	187.2760
Vendor	5.6100e-003	0.1837	0.0589	6.3000e-004	0.0163	2.1000e-004	0.0166	4.7200e-003	2.0000e-004	4.9200e-003	0.0000	61.3836	61.3836	3.3400e-003	0.0000	61.4672
Worker	0.2966	0.2140	2.5048	7.9500e-003	0.8567	6.6500e-003	0.8633	0.2275	6.1200e-003	0.2337	0.0000	718.6201	718.6201	0.0185	0.0000	719.0826
Total	**0.3158**	**0.8343**	**2.7137**	**0.0105**	**0.9320**	**7.6400e-003**	**0.9396**	**0.2480**	**7.0700e-003**	**0.2551**	**0.0000**	**966.9665**	**966.9665**	**0.0344**	**0.0000**	**967.8258**

3.4 Building Construction - 2024

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	tons/yr										MT/yr					
Off-Road	0.1467	1.3505	1.6129	2.7000e-003		0.0615	0.0615		0.0577	0.0577	0.0000	232.6130	232.6130	0.0564	0.0000	234.0220
Total	**0.1467**	**1.3505**	**1.6129**	**2.7000e-003**		**0.0615**	**0.0615**		**0.0577**	**0.0577**	**0.0000**	**232.6130**	**232.6130**	**0.0564**	**0.0000**	**234.0220**

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	tons/yr										MT/yr					
Hauling	5.9200e-003	0.1878	0.0657	8.2000e-004	0.0528	3.3000e-004	0.0531	0.0135	3.2000e-004	0.0138	0.0000	80.6276	80.6276	5.4200e-003	0.0000	80.7632
Vendor	2.3700e-003	0.0793	0.0247	2.7000e-004	7.0800e-003	9.0000e-005	7.1700e-003	2.0400e-003	9.0000e-005	2.1300e-003	0.0000	26.4853	26.4853	1.4300e-003	0.0000	26.5210
Worker	0.1217	0.0845	1.0105	3.3400e-003	0.3711	2.8400e-003	0.3739	0.0986	2.6100e-003	0.1012	0.0000	301.6527	301.6527	7.3400e-003	0.0000	301.8363
Total	**0.1300**	**0.3516**	**1.1009**	**4.4300e-003**	**0.4309**	**3.2600e-003**	**0.4342**	**0.1141**	**3.0200e-003**	**0.1171**	**0.0000**	**408.7657**	**408.7657**	**0.0142**	**0.0000**	**409.1206**

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	tons/yr										MT/yr					
Off-Road	0.0329	0.2186	1.7474	2.7000e-003		4.1100e-003	4.1100e-003		4.1100e-003	4.1100e-003	0.0000	232.6127	232.6127	0.0564	0.0000	234.0217
Total	**0.0329**	**0.2186**	**1.7474**	**2.7000e-003**		**4.1100e-003**	**4.1100e-003**		**4.1100e-003**	**4.1100e-003**	**0.0000**	**232.6127**	**232.6127**	**0.0564**	**0.0000**	**234.0217**

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	tons/yr										MT/yr					
Hauling	5.9200e-003	0.1878	0.0657	8.2000e-004	0.0528	3.3000e-004	0.0531	0.0135	3.2000e-004	0.0138	0.0000	80.6276	80.6276	5.4200e-003	0.0000	80.7632
Vendor	2.3700e-003	0.0793	0.0247	2.7000e-004	7.0800e-003	9.0000e-005	7.1700e-003	2.0400e-003	9.0000e-005	2.1300e-003	0.0000	26.4853	26.4853	1.4300e-003	0.0000	26.5210
Worker	0.1217	0.0845	1.0105	3.3400e-003	0.3711	2.8400e-003	0.3739	0.0986	2.6100e-003	0.1012	0.0000	301.6527	301.6527	7.3400e-003	0.0000	301.8363
Total	**0.1300**	**0.3516**	**1.1009**	**4.4300e-003**	**0.4309**	**3.2600e-003**	**0.4342**	**0.1141**	**3.0200e-003**	**0.1171**	**0.0000**	**408.7657**	**408.7657**	**0.0142**	**0.0000**	**409.1206**

3.5 Architectural Coating - 2024

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	tons/yr										MT/yr					
Archit. Coating	0.2097					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.0600e-003	0.0341	0.0507	8.0000e-005		1.7100e-003	1.7100e-003		1.7100e-003	1.7100e-003	0.0000	7.1491	7.1491	4.0000e-004	0.0000	7.1592
Total	**0.2147**	**0.0341**	**0.0507**	**8.0000e-005**		**1.7100e-003**	**1.7100e-003**		**1.7100e-003**	**1.7100e-003**	**0.0000**	**7.1491**	**7.1491**	**4.0000e-004**	**0.0000**	**7.1592**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	5.4800e-003	3.8000e-003	0.0455	1.5000e-004	0.0167	1.3000e-004	0.0168	4.4400e-003	1.2000e-004	4.5500e-003	0.0000	13.5748	13.5748	3.3000e-004	0.0000	13.5831
Total	**5.4800e-003**	**3.8000e-003**	**0.0455**	**1.5000e-004**	**0.0167**	**1.3000e-004**	**0.0168**	**4.4400e-003**	**1.2000e-004**	**4.5500e-003**	**0.0000**	**13.5748**	**13.5748**	**3.3000e-004**	**0.0000**	**13.5831**

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	tons/yr										MT/yr					
Archit. Coating	0.2097					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	8.3000e-004	3.6100e-003	0.0513	8.0000e-005		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	7.1491	7.1491	4.0000e-004	0.0000	7.1592
Total	**0.2105**	**3.6100e-003**	**0.0513**	**8.0000e-005**		**1.1000e-004**	**1.1000e-004**		**1.1000e-004**	**1.1000e-004**	**0.0000**	**7.1491**	**7.1491**	**4.0000e-004**	**0.0000**	**7.1592**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	5.4800e-003	3.8000e-003	0.0455	1.5000e-004	0.0167	1.3000e-004	0.0168	4.4400e-003	1.2000e-004	4.5500e-003	0.0000	13.5748	13.5748	3.3000e-004	0.0000	13.5831
Total	**5.4800e-003**	**3.8000e-003**	**0.0455**	**1.5000e-004**	**0.0167**	**1.3000e-004**	**0.0168**	**4.4400e-003**	**1.2000e-004**	**4.5500e-003**	**0.0000**	**13.5748**	**13.5748**	**3.3000e-004**	**0.0000**	**13.5831**

3.6 Paving - 2024

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	tons/yr										MT/yr					
Off-Road	0.0208	0.2000	0.3071	4.8000e-004		9.8400e-003	9.8400e-003		9.0500e-003	9.0500e-003	0.0000	42.0557	42.0557	0.0136	0.0000	42.3958
Paving	4.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0251**	**0.2000**	**0.3071**	**4.8000e-004**		**9.8400e-003**	**9.8400e-003**		**9.0500e-003**	**9.0500e-003**	**0.0000**	**42.0557**	**42.0557**	**0.0136**	**0.0000**	**42.3958**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	3.8800e-003	2.7000e-003	0.0322	1.1000e-004	0.0118	9.0000e-005	0.0119	3.1400e-003	8.0000e-005	3.2300e-003	0.0000	9.6200	9.6200	2.3000e-004	0.0000	9.6258
Total	**3.8800e-003**	**2.7000e-003**	**0.0322**	**1.1000e-004**	**0.0118**	**9.0000e-005**	**0.0119**	**3.1400e-003**	**8.0000e-005**	**3.2300e-003**	**0.0000**	**9.6200**	**9.6200**	**2.3000e-004**	**0.0000**	**9.6258**

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	tons/yr										MT/yr					
Off-Road	5.8900e-003	0.0255	0.3632	4.8000e-004		7.9000e-004	7.9000e-004		7.9000e-004	7.9000e-004	0.0000	42.0557	42.0557	0.0136	0.0000	42.3957
Paving	4.3900e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0103**	**0.0255**	**0.3632**	**4.8000e-004**		**7.9000e-004**	**7.9000e-004**		**7.9000e-004**	**7.9000e-004**	**0.0000**	**42.0557**	**42.0557**	**0.0136**	**0.0000**	**42.3957**

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	tons/yr										MT/yr					
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	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	0.0000	0.0000
Worker	3.8800e-003	2.7000e-003	0.0322	1.1000e-004	0.0118	9.0000e-005	0.0119	3.1400e-003	8.0000e-005	3.2300e-003	0.0000	9.6200	9.6200	2.3000e-004	0.0000	9.6258
Total	**3.8800e-003**	**2.7000e-003**	**0.0322**	**1.1000e-004**	**0.0118**	**9.0000e-005**	**0.0119**	**3.1400e-003**	**8.0000e-005**	**3.2300e-003**	**0.0000**	**9.6200**	**9.6200**	**2.3000e-004**	**0.0000**	**9.6258**

IBEC Removal of Additional Buildings Under Variants

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Arena	0.00	1000sqft	0.00	0,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	8			**Operational Year**	2024
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

Project Characteristics - Only includes construction-related emissions due to removal of additional buildings under Variants.

Land Use - Only demolition run. Land use selected as placeholder to model only construction-related emissions associated with removal of additional buildings.

Construction Phase - Based on demolition schedule.

Off-road Equipment - Demolition phase only.

Off-road Equipment - Additional demolition equipment.

Trips and VMT - Additional trips for demolition of buildings under variants.

Demolition - Additional variant buildings to be demolished.

Architectural Coating - Demolition run only.

Vehicle Trips - Demolition run only.

Area Coating - Demolition run only.

Energy Use - Demolition run only.

Water And Wastewater - Demolition run only.

Solid Waste - Demolition run only.

Construction Off-road Equipment Mitigation - Tier 4 Final equipment included.

IBEC Removal of Additional Buildings Under Variants - Los Angeles-South Coast County, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	500.00	0.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	1,500.00	0.00
tblAreaCoating	Area_Nonresidential_Exterior	500	0
tblAreaCoating	Area_Nonresidential_Interior	1500	0
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstEquipMitigation	Tier	No Change	Tier 4 Final
tblConstructionPhase	NumDays	5.00	0.00
tblConstructionPhase	NumDays	10.00	44.00
tblConstructionPhase	NumDaysWeek	5.00	6.00
tblEnergyUse	LightingElect	4.34	0.00
tblEnergyUse	NT24E	4.94	0.00
tblEnergyUse	NT24NG	0.55	0.00
tblEnergyUse	T24E	4.71	0.00
tblEnergyUse	T24NG	8.59	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	0.00
tblSolidWaste	SolidWasteGenerationRate	0.93	0.00
tblVehicleTrips	ST_TR	2.46	0.00
tblVehicleTrips	SU_TR	1.05	0.00
tblVehicleTrips	WD_TR	11.03	0.00
tblWater	IndoorWaterUseRate	177,733.75	0.00
tblWater	OutdoorWaterUseRate	108,933.59	0.00

2.0 Emissions Summary

2.1 Overall Construction

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	tons/yr										MT/yr					
2021	0.0185	0.1618	0.1752	2.9000e-004	3.7000e-003	8.9900e-003	0.0127	8.5000e-004	8.5700e-003	9.4200e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6045
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**0.0185**	**0.1618**	**0.1752**	**2.9000e-004**	**3.7000e-003**	**8.9900e-003**	**0.0127**	**8.5000e-004**	**8.5700e-003**	**9.4200e-003**	**0.0000**	**25.4954**	**25.4954**	**4.3600e-003**	**0.0000**	**25.6045**

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	tons/yr										MT/yr					
2021	3.9100e-003	0.0149	0.1814	2.9000e-004	3.7000e-003	4.1000e-004	4.1100e-003	8.5000e-004	4.1000e-004	1.2600e-003	0.0000	25.4954	25.4954	4.3600e-003	0.0000	25.6044
2022	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Maximum	**3.9100e-003**	**0.0149**	**0.1814**	**2.9000e-004**	**3.7000e-003**	**4.1000e-004**	**4.1100e-003**	**8.5000e-004**	**4.1000e-004**	**1.2600e-003**	**0.0000**	**25.4954**	**25.4954**	**4.3600e-003**	**0.0000**	**25.6044**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**78.89**	**90.79**	**-3.53**	**0.00**	**0.00**	**95.44**	**67.59**	**0.00**	**95.22**	**86.62**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**7-1-2021**	**9-30-2021**	0.1790	0.0186
		Highest	0.1790	0.0186

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	tons/yr										MT/yr					
Area	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
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	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.6100e-003**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

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	tons/yr										MT/yr					
Area	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
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	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	0.0000	0.0000
Waste						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**3.6100e-003**	**0.0000**	**1.0000e-005**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

	ROG	**NOx**	**CO**	**SO2**	**Fugitive PM10**	**Exhaust PM10**	**PM10 Total**	**Fugitive PM2.5**	**Exhaust PM2.5**	**PM2.5 Total**	**Bio- CO2**	**NBio-CO2**	**Total CO2**	**CH4**	**N20**	**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	Demolition	Demolition	7/1/2021	8/20/2021	6	44	
2	Architectural Coating	Architectural Coating	12/14/2022	12/13/2022	5	0	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Architectural Coating	Air Compressors	0	0.00	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
Demolition	4	10.00	0.00	11.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	0	0.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

3.2 Demolition - 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	tons/yr										MT/yr					
Fugitive Dust					1.1900e-003	0.0000	1.1900e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0175	0.1596	0.1665	2.6000e-004		8.9600e-003	8.9600e-003		8.5500e-003	8.5500e-003	0.0000	22.9006	22.9006	4.2700e-003	0.0000	23.0073
Total	**0.0175**	**0.1596**	**0.1665**	**2.6000e-004**	**1.1900e-003**	**8.9600e-003**	**0.0102**	**1.8000e-004**	**8.5500e-003**	**8.7300e-003**	**0.0000**	**22.9006**	**22.9006**	**4.2700e-003**	**0.0000**	**23.0073**

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	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5200e-003	3.6000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4193	0.4193	3.0000e-005	0.0000	0.4200
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	0.0000	0.0000
Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
Total	**1.0000e-003**	**2.2600e-003**	**8.6800e-003**	**2.0000e-005**	**2.5000e-003**	**2.0000e-005**	**2.5300e-003**	**6.7000e-004**	**2.0000e-005**	**6.9000e-004**	**0.0000**	**2.5949**	**2.5949**	**9.0000e-005**	**0.0000**	**2.5972**

3.2 Demolition - 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	tons/yr										MT/yr					
Fugitive Dust					1.1900e-003	0.0000	1.1900e-003	1.8000e-004	0.0000	1.8000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9200e-003	0.0126	0.1727	2.6000e-004		3.9000e-004	3.9000e-004		3.9000e-004	3.9000e-004	0.0000	22.9005	22.9005	4.2700e-003	0.0000	23.0072
Total	**2.9200e-003**	**0.0126**	**0.1727**	**2.6000e-004**	**1.1900e-003**	**3.9000e-004**	**1.5800e-003**	**1.8000e-004**	**3.9000e-004**	**5.7000e-004**	**0.0000**	**22.9005**	**22.9005**	**4.2700e-003**	**0.0000**	**23.0072**

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	tons/yr										MT/yr					
Hauling	5.0000e-005	1.5200e-003	3.6000e-004	0.0000	9.0000e-005	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.4193	0.4193	3.0000e-005	0.0000	0.4200
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	0.0000	0.0000
Worker	9.5000e-004	7.4000e-004	8.3200e-003	2.0000e-005	2.4100e-003	2.0000e-005	2.4300e-003	6.4000e-004	2.0000e-005	6.6000e-004	0.0000	2.1756	2.1756	6.0000e-005	0.0000	2.1772
Total	**1.0000e-003**	**2.2600e-003**	**8.6800e-003**	**2.0000e-005**	**2.5000e-003**	**2.0000e-005**	**2.5300e-003**	**6.7000e-004**	**2.0000e-005**	**6.9000e-004**	**0.0000**	**2.5949**	**2.5949**	**9.0000e-005**	**0.0000**	**2.5972**

3.3 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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

3.3 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	tons/yr										MT/yr					
Archit. Coating	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	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	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**	**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	tons/yr										MT/yr					
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	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	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	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**	**0.0000**

4.0 Operational Detail - Mobile

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	tons/yr										MT/yr					
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	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	0.0000	0.0000

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Arena	0.00	0.00	0.00		
Total	0.00	0.00	0.00		

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	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
Arena	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Arena	0.545348	0.044620	0.206559	0.118451	0.015002	0.006253	0.020617	0.031756	0.002560	0.002071	0.005217	0.000696	0.000850

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	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
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	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	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	tons/yr										MT/yr					
Arena	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	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**

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	tons/yr										MT/yr					
Arena	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	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**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Arena	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Unmitigated	3.6100e-003	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005

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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**3.6100e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

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	tons/yr										MT/yr					
Architectural Coating	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	3.6100e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	1.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	2.0000e-005	2.0000e-005	0.0000	0.0000	3.0000e-005
Total	**3.6100e-003**	**0.0000**	**1.0000e-005**	**0.0000**		**0.0000**	**0.0000**		**0.0000**	**0.0000**	**0.0000**	**2.0000e-005**	**2.0000e-005**	**0.0000**	**0.0000**	**3.0000e-005**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Arena	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Arena	0	0.0000	0.0000	0.0000	0.0000
Total		**0.0000**	**0.0000**	**0.0000**	**0.0000**

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

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