

Appendix E

Climate Action Plan Checklist and Greenhouse Gas Emissions Analysis



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July 18, 2016

Aaron Hollister
Civic San Diego
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San Diego, CA 21010-4298

Subject: City of San Diego CAP Checklist Consistency Evaluation for the 1122 4th Avenue Project

Dear Mr. Hollister,

The City of San Diego's (City) Climate Action Plan (CAP) outlines measures that would support substantial progress towards the City's 2035 GHG emissions reduction targets, which are intended to keep the City in line to achieve its share of 2050 GHG reductions, as mandated by AB 32. The CAP Environmental Impact Report (EIR) analyzed greenhouse gas (GHG) emissions on a citywide basis, inclusive of the anticipated assumptions for the growth and buildout of Downtown. A CAP Checklist was drafted for the evaluation of proposed projects' consistency with the City's CAP. The CAP Consistency Checklist was adopted by City Council on July 12, 2016 to uniformly implement the CAP for project-specific analyses of GHG emission impacts.

This letter serves to supplement the City's CAP Checklist for the 1122 4th Avenue Project, and provide explanation for how the proposed project would comply with the CAP Checklist.

Project Description: The proposed project would develop a 40-story, 420-foot-tall mixed-use development of 282 residential units, with street level retail, lobby, associated residential amenities, two and a half levels of underground parking, and four levels of above grade parking. The proposed development would have a total gross area of approximately 373,546 square feet with 279,544 square feet of above grade gross floor area and 70,000 square feet below grade with 314 parking spaces. Façade materials would include glass, sealed concrete, painted concrete, porcelain accents, granite accents, and stainless steel column covers, among others. A painted perforated metal screen with images of the original California Theatre would serve as the façade of the four levels of above ground parking. On the east side of the property, the existing 9-story office building will be re-created, and will coincide with the proposed floor-by-floor program.

The proposed project would require the demolition of all existing structures onsite, including the historical California Theatre and office building to accommodate the new building. The project is anticipated to be constructed over a 24-month period starting in the spring of 2017. Demolition of the existing building would include the removal of approximately 16,000 tons of building debris over a 3-month period. Grading would take approximately 4 months and result in the excavation and export of approximately 32,400 cubic yards of soil.

The proposed project would involve amendments to the Downtown Community Plan (DCP) and Centre City Planned District Ordinance (CCPDO) that would remove the Employment Overlay which

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covers much of the Civic/Core Land Use District where the project would be located. This Overlay requires that a minimum of 50 percent of the gross floor area in a development shall be dedicated to employment uses such as office, education, retail, hotel and other commercial uses. The purpose of the amendment is to allow the proposed project to contain residential uses in an area greater than 50 percent of the gross floor area of the project.

CAP Checklist Consistency: The following paragraphs provide an explanation of how the proposed project would comply with Step 1 and Step 2 of the CAP Checklist provided in Attachment 1.

The first step (Step 1 below) in determining CAP consistency for discretionary development project is to assess the project's consistency with the growth projections used in the development of the CAP. This section allows the City to determine a project's consistency with the land use assumptions used in the CAP.

Step 1: The proposed project is not consistent with the existing land use plan and zoning designations, but does include an amendment (described above) that would result in a less greenhouse gas (GHG)-intensive project. AECOM completed a model comparison of the proposed project versus a project of the same development intensity that could be approved for the project site without the removal of the Employment Overlay. This comparison is provided in Attachment 2. The modeling indicates that the proposed project with the removal of the Employment Overlay results in approximately 2,000 metric ton fewer unmitigated operational emissions than a similar project without the removal of the Employment Overlay.

The second step (Step 2 below) of the CAP consistency review is to review and evaluate a project's consistency with the applicable strategies and actions of the CAP. The strategies described below illustrate how the proposed project would comply with Energy and Water Efficient Buildings (Strategy 1), Clean and Renewable Energy (Strategy 2), and Bicycling, Walking, Transit, and Land Use (Strategy 3).

Step 2: CAP Strategies Consistency

(1) The project will utilize a "cool/green" roof concept in four ways: a) certain areas (sf) will be planted with vegetation, b) inaccessible areas will be "cool" roof, c) walking areas will have a solar index consistent with the latest CGBS Code, and d) a small roof area (1,770 sf) will contain photovoltaic panels to light the roof terrace.

(2) Kitchen faucets will not exceed 1.5 gallons per minute maximum flow rate. Standard dishwashers will not exceed 4.25 gallons per cycle. The project does not include plans for compact dishwashers, and therefore the standard set forth in the CAP Checklist is not applicable. Clothes washers will include a water factor of 6 gallons per cubic feet of drum capacity.

(3) Project will obtain a LEED Silver certification per US Green Building Council, which will exceed Title 24 standards.

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(4) The project requires 282 parking spaces. The project contains a surplus of 23 spaces. Of those, eight spaces will be devoted to active electric vehicle charging stations, four of which will remain ready for immediate use.

(5) The municipal code requires 56 bicycle parking spaces, the project proposes 61. Thus, the project has a surplus of 5 bicycle parking spaces for "more active" users.

(6) - (8) These checklist items are not applicable to the proposed project.

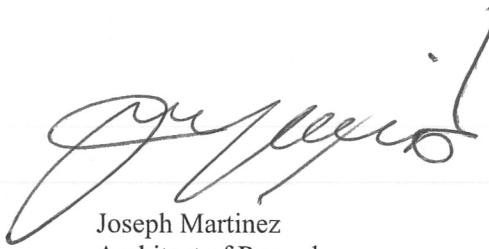
The discussion above illustrates that the project has been analyzed against the CAP Consistency Checklist, and based on this analysis, it has been determined that the project would be consistent with the CAP and would not contribute to cumulative GHG emissions that would be inconsistent with the CAP. As such, the project would be consistent with the anticipated growth and buildout assumptions of both the Downtown Community Plan and the CAP.

Joseph Martinez of Martinez and Cultri Corporation is the Architect of Record. By signing below, he is confirming that the project features noted under Step 2 above have been incorporated into project plans.

Respectfully,



Michelle Fehrensen
Senior Project Manager



Joseph Martinez
Architect of Record

Attachment 1: CAP Consistency Checklist
Attachment 2: CA Theater versus Hypothetical Project GHG Analysis



CLIMATE ACTION PLAN CONSISTENCY CHECKLIST INTRODUCTION

In December 2015, the City adopted a Climate Action Plan (CAP) that outlines the actions that City will undertake to achieve its proportional share of State greenhouse gas (GHG) emission reductions. The purpose of the Climate Action Plan Consistency Checklist (Checklist) is to, in conjunction with the CAP, provide a streamlined review process for proposed new development projects that are subject to discretionary review and trigger environmental review pursuant to the California Environmental Quality Act (CEQA).¹

Analysis of GHG emissions and potential climate change impacts from new development is required under CEQA. The CAP is a plan for the reduction of GHG emissions in accordance with CEQA Guidelines Section 15183.5. Pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project's incremental contribution to a cumulative GHG emissions effect may be determined not to be cumulatively considerable if it complies with the requirements of the CAP.

This Checklist is part of the CAP and contains measures that are required to be implemented on a project-by-project basis to ensure that the specified emissions targets identified in the CAP are achieved. Implementation of these measures would ensure that new development is consistent with the CAP's assumptions for relevant CAP strategies toward achieving the identified GHG reduction targets. Projects that are consistent with the CAP as determined through the use of this Checklist may rely on the CAP for the cumulative impacts analysis of GHG emissions. Projects that are not consistent with the CAP must prepare a comprehensive project-specific analysis of GHG emissions, including quantification of existing and projected GHG emissions and incorporation of the measures in this Checklist to the extent feasible. Cumulative GHG impacts would be significant for any project that is not consistent with the CAP.

The Checklist may be updated to incorporate new GHG reduction techniques or to comply with later amendments to the CAP or local, State, or federal law.

Questions pertaining to the Checklist should be directed to Development Services Department at 619-446-5000.

¹ Certain projects seeking ministerial approval may be required to complete the Checklist. For example, projects in a Community Plan Implementation Overlay Zone may be required to use the Checklist to qualify for ministerial level review. See Supplemental Development Regulations in the project's community plan to determine applicability.

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CAP CONSISTENCY CHECKLIST SUBMITTAL APPLICATION

- ✓ The Checklist is required only for projects subject to CEQA review.²
- ✓ If required, the Checklist must be included in the project submittal package. Application submittal procedures can be found in [Chapter 11: Land Development Procedures](#) of the City's Municipal Code.
- ✓ The requirements in the Checklist will be included in the project's conditions of approval.
- ✓ The applicant must provide an explanation of how the proposed project will implement the requirements described herein to the satisfaction of the Planning Department.

Application Information

Contact Information

Project No./Name: _____

Property Address: _____

Applicant Name/Co.: _____

Contact Phone: _____ Contact Email: _____

Was a consultant retained to complete this checklist? Yes No If Yes, complete the following

Consultant Name: _____ Contact Phone: _____

Company Name: _____ Contact Email: _____

Project Information

1. What is the size of the project (acres)? _____

2. Identify all applicable proposed land uses:

- Residential (indicate # of single-family units): _____
- Residential (indicate # of multi-family units): _____
- Commercial (total square footage): _____
- Industrial (total square footage): _____
- Other (describe): _____

3. Is the project located in a Transit Priority Area? Yes No

4. Provide a brief description of the project proposed:

² Certain projects seeking ministerial approval may be required to complete the Checklist. For example, projects in a Community Plan Implementation Overlay Zone may be required to use the Checklist to qualify for ministerial level review. See Supplemental Development Regulations in the project's community plan to determine applicability.



CAP CONSISTENCY CHECKLIST QUESTIONS

Step 1: Land Use Consistency

The first step in determining CAP consistency for discretionary development projects is to assess the project's consistency with the growth projections used in the development of the CAP. This section allows the City to determine a project's consistency with the land use assumptions used in the CAP.

Step 1: Land Use Consistency		
Checklist Item (Check the appropriate box and provide explanation and supporting documentation for your answer)	Yes	No
<ol style="list-style-type: none">1. Is the proposed project consistent with the existing General Plan and Community Plan land use and zoning designations?³ <u>OR</u>2. If the proposed project is not consistent with the existing land use plan and zoning designations, does the project include a land use plan and/or zoning designation amendment that would result in an equivalent or less GHG-intensive project when compared to the existing designations?; <u>OR</u>3. If the proposed project is not consistent with the existing land use plan and zoning designations, and includes a land use plan and/or zoning designation amendment that would result in an increase in GHG emissions when compared to the existing designations, would the project be located in a Transit Priority Area (TPA) and implement CAP Strategy 3 actions, as determined in Step 3 to the satisfaction of the Development Services Department?	<input type="checkbox"/>	<input type="checkbox"/>

If "Yes," proceed to Step 2 of the Checklist. For questions 2 and 3 above, provide estimated project emissions under both existing and proposed designation(s) for comparison. For question 3 above, complete Step 3.

If "No," in accordance with the City's Significance Determination Thresholds, the project's GHG impact is significant. The project must nonetheless incorporate each of the measures identified in Step 2 to mitigate cumulative GHG emissions impacts unless the decision maker finds that a measure is infeasible in accordance with CEQA Guidelines Section 15091. Proceed and complete Step 2 of the Checklist.

³ This question may also be answered in the affirmative if the project is consistent with SANDAG Series 12 growth projections, which were used to determine the CAP projections, as determined by the Planning Department.

Step 2: CAP Strategies Consistency

The second step of the CAP consistency review is to review and evaluate a project's consistency with the applicable strategies and actions of the CAP. Step 2 only applies to development projects that involve permits that would require a certificate of occupancy from the Building Official or projects comprised of one and two family dwellings or townhouses as defined in the California Residential Code and their accessory structures.⁴ All other development projects that would not require a certificate of occupancy from the Building Official shall implement Best Management Practices for construction activities as set forth in the [Greenbook](#) (for public projects).

Step 2: CAP Strategies Consistency			
Checklist Item (Check the appropriate box and provide explanation for your answer)	Yes	No	N/A
Strategy 1: Energy & Water Efficient Buildings			
1. Cool/Green Roofs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none">Would the project include roofing materials with a minimum 3-year aged solar reflection and thermal emittance or solar reflection index equal to or greater than the values specified in the voluntary measures under California Green Building Standards Code (Attachment A)?; ORWould the project roof construction have a thermal mass over the roof membrane, including areas of vegetated (green) roofs, weighing at least 25 pounds per square foot as specified in the voluntary measures under California Green Building Standards Code?; ORWould the project include a combination of the above two options? <p>Check "N/A" only if the project does not include a roof component.</p>			
2. Plumbing fixtures and fittings			
With respect to plumbing fixtures or fittings provided as part of the project, would those low-flow fixtures/appliances be consistent with each of the following:			
Residential buildings: <ul style="list-style-type: none">Kitchen faucets: maximum flow rate not to exceed 1.5 gallons per minute at 60 psi;Standard dishwashers: 4.25 gallons per cycle;Compact dishwashers: 3.5 gallons per cycle; andClothes washers: water factor of 6 gallons per cubic feet of drum capacity?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nonresidential buildings: <ul style="list-style-type: none">Plumbing fixtures and fittings that do not exceed the maximum flow rate specified in Table A5.303.2.3.1 (voluntary measures) of the California Green Building Standards Code (See Attachment A); andAppliances and fixtures for commercial applications that meet the provisions of Section A5.303.3 (voluntary measures) of the California Green Building Standards Code (See Attachment A)?			
Check "N/A" only if the project does not include any plumbing fixtures or fittings.			

⁴ Actions that are not subject to Step 2 would include, for example: 1) discretionary map actions that do not propose specific development, 2) permits allowing wireless communication facilities, 3) special events permits, 4) use permits that do not result in the expansion or enlargement of a building, and 5) non-building infrastructure projects such as roads and pipelines. Because such actions would not result in new occupancy buildings from which GHG emissions reductions could be achieved, the items contained in Step 2 would not be applicable.

Step 2: CAP Strategies Consistency

Checklist Item (Check the appropriate box and provide explanation for your answer)	Yes	No	N/A
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Strategy 2: Clean & Renewable Energy

3. Energy Performance Standard / Renewable Energy

Is the project designed to have an energy budget that meets the following performance standards when compared to the Title 24, Part 6 Energy Budget for the Proposed Design Building as calculated by [Compliance Software certified by the California Energy Commission](#) (percent improvement over current code):

- Low-rise residential – 15% improvement?
- Nonresidential with indoor lighting OR mechanical systems, but not both – 5% improvement?
- Nonresidential with both indoor lighting AND mechanical systems – 10% improvement?⁵

The demand reduction may be provided through on-site renewable energy generation, such as solar, or by designing the project to have an energy budget that meets the above-mentioned performance standards, when compared to the Title 24, Part 6 Energy Budget for the Proposed Design Building (percent improvement over current code).

Note: For Energy Budget calculations, high-rise residential and hotel/motel buildings are considered non-residential buildings.

Check "N/A" only if the project does not contain any residential or non-residential buildings.

Strategy 3: Bicycling, Walking, Transit & Land Use

4. Electric Vehicle Charging

- Single-family projects: Would the required parking serving each new single-family residence and each unit of a duplex be constructed with a listed cabinet, box or enclosure connected to a raceway linking the required parking space to the electrical service, to allow for the future installation of electric vehicle supply equipment to provide an electric vehicle charging station for use by the resident?
- Multiple-family projects of 10 dwelling units or less: Would 3% of the total parking spaces required, or a minimum of one space, be provided with a listed cabinet, box or enclosure connected to a conduit linking the parking spaces with the electrical service, in a manner approved by the building and safety official, to allow for the future installation of electric vehicle supply equipment to provide electric vehicle charging stations at such time as it is needed for use by residents?
- Multiple-family projects of more than 10 dwelling units: Would 3% of the total parking spaces required, or a minimum of one space, be provided with a listed cabinet, box or enclosure connected to a conduit linking the parking spaces with the electrical service, in a manner approved by the building and safety official? Of the total listed cabinets, boxes or enclosures provided, would 50% have the necessary electric vehicle supply equipment installed to provide active electric vehicle charging stations ready for use by residents?

⁵ CALGreen defines mechanical systems as equipment, appliances, fixtures, fittings and/or appurtenances, including ventilating, heating, cooling, air-conditioning and refrigeration systems, incinerators and other energy-related systems.

Step 2: CAP Strategies Consistency

Checklist Item (Check the appropriate box and provide explanation for your answer)	Yes	No	N/A
<ul style="list-style-type: none"> • <u>Non-residential projects:</u> If the project includes new commercial, industrial, or other uses with the building or land area, capacity, or numbers of employees listed in Attachment A, would 3% of the total parking spaces required, or a minimum of one space, be provided with a listed cabinet, box or enclosure connected to a conduit linking the parking spaces with the electrical service, in a manner approved by the building and safety official? Of the total listed cabinets, boxes or enclosures provided, would 50% have the necessary electric vehicle supply equipment installed to provide active electric vehicle charging stations ready for use? <p>Check "N/A" only if the project does not include new commercial, industrial, or other uses with the building or land area, capacity, or numbers of employees listed in Attachment A.</p>			

Strategy 3: Bicycling, Walking, Transit & Land Use

(Complete this section if project includes non-residential or mixed uses)

<p>5. <i>Bicycle Parking Spaces</i></p> <p>Would the project provide more short- and long-term bicycle parking spaces than required in the City's Municipal Code (Chapter 14, Article 2, Division 5)?⁶</p> <p>Check "N/A" only if the project is a residential project.</p>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		
<p>6. <i>Shower facilities</i></p> <p>If the project includes nonresidential development that would accommodate over 10 tenant occupants (employees), would the project include changing/shower facilities in accordance with the voluntary measures under the California Green Building Standards Code as shown in the table below?</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #d3d3d3; padding: 5px;">Number of Tenant Occupants (Employees)</th> <th style="background-color: #d3d3d3; padding: 5px;">Shower/Changing Facilities Required</th> <th style="background-color: #d3d3d3; padding: 5px;">Two-Tier (12" X 15" X 72") Personal Effects Lockers Required</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">0-10</td><td style="padding: 5px;">0</td><td style="padding: 5px;">0</td></tr> <tr> <td style="padding: 5px;">11-50</td><td style="padding: 5px;">1 shower stall</td><td style="padding: 5px;">2</td></tr> <tr> <td style="padding: 5px;">51-100</td><td style="padding: 5px;">1 shower stall</td><td style="padding: 5px;">3</td></tr> <tr> <td style="padding: 5px;">101-200</td><td style="padding: 5px;">1 shower stall</td><td style="padding: 5px;">4</td></tr> <tr> <td style="padding: 5px;">Over 200</td><td style="padding: 5px;">1 shower stall plus 1 additional shower stall for each 200 additional tenant-occupants</td><td style="padding: 5px;">1 two-tier locker plus 1 two-tier locker for each 50 additional tenant-occupants</td></tr> </tbody> </table> <p>Check "N/A" only if the project is a residential project, or if it does not include nonresidential development that would accommodate over 10 tenant occupants (employees).</p>	Number of Tenant Occupants (Employees)	Shower/Changing Facilities Required	Two-Tier (12" X 15" X 72") Personal Effects Lockers Required	0-10	0	0	11-50	1 shower stall	2	51-100	1 shower stall	3	101-200	1 shower stall	4	Over 200	1 shower stall plus 1 additional shower stall for each 200 additional tenant-occupants	1 two-tier locker plus 1 two-tier locker for each 50 additional tenant-occupants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Tenant Occupants (Employees)	Shower/Changing Facilities Required	Two-Tier (12" X 15" X 72") Personal Effects Lockers Required																			
0-10	0	0																			
11-50	1 shower stall	2																			
51-100	1 shower stall	3																			
101-200	1 shower stall	4																			
Over 200	1 shower stall plus 1 additional shower stall for each 200 additional tenant-occupants	1 two-tier locker plus 1 two-tier locker for each 50 additional tenant-occupants																			

⁶ Non-portable bicycle corrals within 600 feet of project frontage can be counted towards the project's bicycle parking requirements.

Step 2: CAP Strategies Consistency

Checklist Item (Check the appropriate box and provide explanation for your answer)	Yes	No	N/A																		
<p>7. Designated Parking Spaces</p> <p>If the project includes an employment use in a TPA, would the project provide designated parking for a combination of low-emitting, fuel-efficient, and carpool/vanpool vehicles in accordance with the following table?</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #668dce; color: white;"> <th style="text-align: center;">Number of Required Parking Spaces</th><th style="text-align: center;">Number of Designated Parking Spaces</th></tr> </thead> <tbody> <tr><td style="text-align: center;">0-9</td><td style="text-align: center;">0</td></tr> <tr><td style="text-align: center;">10-25</td><td style="text-align: center;">2</td></tr> <tr><td style="text-align: center;">26-50</td><td style="text-align: center;">4</td></tr> <tr><td style="text-align: center;">51-75</td><td style="text-align: center;">6</td></tr> <tr><td style="text-align: center;">76-100</td><td style="text-align: center;">9</td></tr> <tr><td style="text-align: center;">101-150</td><td style="text-align: center;">11</td></tr> <tr><td style="text-align: center;">151-200</td><td style="text-align: center;">18</td></tr> <tr><td style="text-align: center;">201 and over</td><td style="text-align: center;">At least 10% of total</td></tr> </tbody> </table> <p>This measure does not cover electric vehicles. See Question 4 for electric vehicle parking requirements.</p> <p>Note: Vehicles bearing Clean Air Vehicle stickers from expired HOV lane programs may be considered eligible for designated parking spaces. The required designated parking spaces are to be provided within the overall minimum parking requirement, not in addition to it.</p> <p>Check "N/A" only if the project is a residential project, or if it does not include an employment use in a TPA.</p>	Number of Required Parking Spaces	Number of Designated Parking Spaces	0-9	0	10-25	2	26-50	4	51-75	6	76-100	9	101-150	11	151-200	18	201 and over	At least 10% of total	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Number of Required Parking Spaces	Number of Designated Parking Spaces																				
0-9	0																				
10-25	2																				
26-50	4																				
51-75	6																				
76-100	9																				
101-150	11																				
151-200	18																				
201 and over	At least 10% of total																				
<p>8. Transportation Demand Management Program</p> <p>If the project would accommodate over 50 tenant-occupants (employees), would it include a transportation demand management program that would be applicable to existing tenants and future tenants that includes:</p> <p>At least one of the following components:</p> <ul style="list-style-type: none"> • Parking cash out program • Parking management plan that includes charging employees market-rate for single-occupancy vehicle parking and providing reserved, discounted, or free spaces for registered carpools or vanpools • Unbundled parking whereby parking spaces would be leased or sold separately from the rental or purchase fees for the development for the life of the development <p>And at least three of the following components:</p> <ul style="list-style-type: none"> • Commitment to maintaining an employer network in the SANDAG iCommute program and promoting its RideMatcher service to tenants/employees • On-site carsharing vehicle(s) or bikesharing • Flexible or alternative work hours • Telework program • Transit, carpool, and vanpool subsidies 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		

Step 2: CAP Strategies Consistency

Checklist Item (Check the appropriate box and provide explanation for your answer)	Yes	No	N/A
<ul style="list-style-type: none">• Pre-tax deduction for transit or vanpool fares and bicycle commute costs• Access to services that reduce the need to drive, such as cafes, commercial stores, banks, post offices, restaurants, gyms, or childcare, either onsite or within 1,320 feet (1/4 mile) of the structure/use? <p>Check "N/A" only if the project is a residential project or if it would not accommodate over 50 tenant-occupants (employees).</p>			

Step 3: Project CAP Conformance Evaluation (if applicable)

The third step of the CAP consistency review only applies if Step 1 is answered in the affirmative under option 3. The purpose of this step is to determine whether a project that is located in a TPA but that includes a land use plan and/or zoning designation amendment that would result in an increase in GHG emissions when compared to the existing designations, is nevertheless consistent with the assumptions in the CAP because it would implement CAP Strategy 3 actions. The following questions must each be answered in the affirmative and fully explained.

1. Would the proposed project implement the General Plan's City of Villages strategy in an identified Transit Priority Area (TPA) that will result in an increase in the capacity for transit-supportive residential and/or employment densities?

Considerations for this question:

- Does the proposed land use and zoning designation associated with the project provide capacity for transit-supportive residential densities within the TPA?
- Is the project site suitable to accommodate mixed-use village development, as defined in the General Plan, within the TPA?
- Does the land use and zoning associated with the project increase the capacity for transit-supportive employment intensities within the TPA?

2. Would the proposed project implement the General Plan's Mobility Element in Transit Priority Areas to increase the use of transit?

Considerations for this question:

- Does the proposed project support/incorporate identified transit routes and stops/stations?
- Does the project include transit priority measures?

3. Would the proposed project implement pedestrian improvements in Transit Priority Areas to increase walking opportunities?

Considerations for this question:

- Does the proposed project circulation system provide multiple and direct pedestrian connections and accessibility to local activity centers (such as transit stations, schools, shopping centers, and libraries)?
- Does the proposed project urban design include features for walkability to promote a transit supportive environment?

4. Would the proposed project implement the City of San Diego's Bicycle Master Plan to increase bicycling opportunities?

Considerations for this question:

- Does the proposed project circulation system include bicycle improvements consistent with the Bicycle Master Plan?
- Does the overall project circulation system provide a balanced, multimodal, "complete streets" approach to accommodate mobility needs of all users?

5. Would the proposed project incorporate implementation mechanisms that support Transit Oriented Development?

Considerations for this question:

- Does the proposed project include new or expanded urban public spaces such as plazas, pocket parks, or urban greens in the TPA?
- Does the land use and zoning associated with the proposed project increase the potential for jobs within the TPA?
- Do the zoning/implementing regulations associated with the proposed project support the efficient use of parking through mechanisms such as: shared parking, parking districts, unbundled parking, reduced parking, paid or time-limited parking, etc.?

6. Would the proposed project implement the Urban Forest Management Plan to increase urban tree canopy coverage?

Considerations for this question:

- Does the proposed project provide at least three different species for the primary, secondary and accent trees in order to accommodate varying parkway widths?
- Does the proposed project include policies or strategies for preserving existing trees?
- Does the proposed project incorporate tree planting that will contribute to the City's 20% urban canopy tree coverage goal?



CLIMATE ACTION PLAN CONSISTENCY CHECKLIST

ATTACHMENT A

This attachment provides performance standards for applicable Climate Action Plan (CAP) Consistency Checklist measures.

Table 1 Roof Design Values for Question 1: Cool/Green Roofs supporting Strategy 1: Energy & Water Efficient Buildings of the Climate Action Plan				
Land Use Type	Roof Slope	Minimum 3-Year Aged Solar Reflectance	Thermal Emittance	Solar Reflective Index
Low-Rise Residential	≤ 2:12	0.55	0.75	64
	> 2:12	0.20	0.75	16
High-Rise Residential Buildings, Hotels and Motels	≤ 2:12	0.55	0.75	64
	> 2:12	0.20	0.75	16
Non-Residential	≤ 2:12	0.55	0.75	64
	> 2:12	0.20	0.75	16

Source: Adapted from the [California Green Building Standards Code](#) (CALGreen) Tier 1 residential and non-residential voluntary measures shown in Tables A4.106.5.1 and A5.106.11.2.2, respectively. Roof installation and verification shall occur in accordance with the CALGreen Code.

CALGreen does not include recommended values for low-rise residential buildings with roof slopes of ≤ 2:12 for San Diego's climate zones (7 and 10). Therefore, the values for climate zone 15 that covers Imperial County are adapted here.

Solar Reflectance Index (SRI) equal to or greater than the values specified in this table may be used as an alternative to compliance with the aged solar reflectance values and thermal emittance.

Table 2
Fixture Flow Rates for Non-Residential Buildings related to Question 2: Plumbing Fixtures and Fittings supporting Strategy 1: Energy & Water Efficient Buildings of the Climate Action Plan

Fixture Type	Maximum Flow Rate
Showerheads	1.8 gpm @ 80 psi
Lavatory Faucets	0.35 gpm @60 psi
Kitchen Faucets	1.6 gpm @ 60 psi
Wash Fountains	1.6 [rim space(in.)/20 gpm @ 60 psi]
Metering Faucets	0.18 gallons/cycle
Metering Faucets for Wash Fountains	0.18 [rim space(in.)/20 gpm @ 60 psi]
Gravity Tank-type Water Closets	1.12 gallons/flush
Flushometer Tank Water Closets	1.12 gallons/flush
Flushometer Valve Water Closets	1.12 gallons/flush
Electromechanical Hydraulic Water Closets	1.12 gallons/flush
Urinals	0.5 gallons/flush

Source: Adapted from the [California Green Building Standards Code](#) (CALGreen) Tier 1 non-residential voluntary measures shown in Tables A5.303.2.3.1 and A5.106.11.2.2, respectively. See the [California Plumbing Code](#) for definitions of each fixture type.

Where complying faucets are unavailable, aerators rated at 0.35 gpm or other means may be used to achieve reduction.

Acronyms:

gpm = gallons per minute

psi = pounds per square inch (unit of pressure)

in. = inch

Table 3 Standards for Appliances and Fixtures for Commercial Application related to Question 2: Plumbing Fixtures and Fittings supporting Strategy 1: Energy & Water Efficient Buildings of the Climate Action Plan

Appliance/Fixture Type	Standard			
Clothes Washers	Maximum Water Factor (WF) that will reduce the use of water by 10 percent below the California Energy Commissions' WF standards for commercial clothes washers located in Title 20 of the California Code of Regulations.			
Conveyor-type Dishwashers	0.70 maximum gallons per rack (2.6 L) (High-Temperature)	0.62 maximum gallons per rack (4.4 L) (Chemical)		
Door-type Dishwashers	0.95 maximum gallons per rack (3.6 L) (High-Temperature)	1.16 maximum gallons per rack (2.6 L) (Chemical)		
Undercounter-type Dishwashers	0.90 maximum gallons per rack (3.4 L) (High-Temperature)	0.98 maximum gallons per rack (3.7 L) (Chemical)		
Combination Ovens	Consume no more than 10 gallons per hour (38 L/h) in the full operational mode.			
Commercial Pre-rinse Spray Valves (manufactured on or after January 1, 2006)	Function at equal to or less than 1.6 gallons per minute (0.10 L/s) at 60 psi (414 kPa) and <ul style="list-style-type: none"> • Be capable of cleaning 60 plates in an average time of not more than 30 seconds per plate. • Be equipped with an integral automatic shutoff. • Operate at static pressure of at least 30 psi (207 kPa) when designed for a flow rate of 1.3 gallons per minute (0.08 L/s) or less. 			
Source: Adapted from the California Green Building Standards Code (CALGreen) Tier 1 non-residential voluntary measures shown in Section A5.303.3. See the California Plumbing Code for definitions of each appliance/fixture type.				
Acronyms: L = liter L/h = liters per hour L/s = liters per second psi = pounds per square inch (unit of pressure) kPa = kilopascal (unit of pressure)				

Table 4 Size-based Trigger Levels for Electric Vehicle Charging Requirements for Non-Residential Buildings related to Question 10: Electric Vehicle Charging supporting Strategy 3: Bicycling, Walking, Transit & Land Use of the Climate Action Plan

Land Use Type	Size-based Trigger Level
Hospital	500 or more beds OR Expansion of a 500+ bed hospital by 20%
College	3,000 or more students OR Expansion of a 3,000+ student college by 20%
Hotels/Motels	500 or more rooms
Industrial, Manufacturing or Processing Plants or Industrial Parks	1,000 or more employees OR 40 acres or more of land area OR 650,000 square feet or more of gross floor area
Office buildings or Office Parks	1,000 or more employees OR 250,000 square feet or more of gross floor area
Shopping centers or Trade Centers	1,000 or more employees OR 500,000 square feet or more of gross floor area
Sports, Entertainment or Recreation Facilities	Accommodate at least 4,000 persons per performance OR Contain 1,500 or more fixed seats
Transit Projects (including, but not limited to, transit stations and park and ride lots).	All

Source: Adapted from the Governor's Office of Planning and Research's (OPR's) [Model Building Code for Plug-In Electric Vehicle Charging](#)

Memorandum

To: California Theater Project Team
From: Matthew Gerken
Date: July 6, 2016
Subject: Proposed Project versus Hypothetical Project: Greenhouse Gas Emissions Analysis

OVERVIEW

We have prepared a new estimate of greenhouse gas (GHG) emissions associated with the proposed project and compared this to a project of the same development intensity that could be approved for the project site without the removal of the Employment Overlay. In summary, our results show that the proposed project, without consideration of mitigation measures that are available within the GHG model, would have lower construction-related and annual operational emissions than the hypothetical project.

PROPOSED PROJECT AND HYPOTHETICAL PROJECT

We understand that the Employment Overlay requires that a minimum of 50 percent of the gross floor area is dedicated to employment uses, such as office, education, retail, hotel, or other commercial uses. For the hypothetical project, we assumed that all of the square footage devoted in the proposed project to residential use would instead be proposed for office use. The project proposes 282 dwelling units that would occupy approximately 299,146 square feet of floor space. Another 97,329 square feet is proposed for residential amenities. The hypothetical project converts the total square footage in residential use in the proposed project (299,146 square feet) to office use. The square footage for residential amenities in the proposed project is not converted to another use in the hypothetical project.

The proposed project includes 314 parking spaces that occupy three levels below grade and four levels above grade. Since office uses have higher parking requirements per the Centre City Planned District (1.5 spaces per 1,000 square feet of office use) as compared with residential uses, we assumed another three levels of parking would be sufficient to meet the additional parking demand (approximately 135 additional spaces). The proposed project includes approximately 25,000 square feet of ground floor retail that is exempt from parking requirements – this retail use is also assumed in the hypothetical project since this would not conflict with the Employment Overlay.

RESULTS

The proposed project would generate slightly lower total construction-related emissions – 1,549 metric tons of carbon dioxide equivalent (MT CO₂e) compared to 1,577 MT CO₂e for the hypothetical project. The proposed project would generate annual operational emissions that are approximately 24 percent lower than the hypothetical project. The difference is largely attributable to energy-related emissions associated with the proposed and hypothetical projects, although the hypothetical project would also

have a somewhat higher travel demand (vehicle miles traveled or VMT) compared to the proposed project. Table 1 provides a summary of the results.

Table 1. GHG Emissions, Proposed Project and Hypothetical Project with Employment Overlay

Scenario	Residential Use	Non-Residential Use	Parking	Unmitigated Construction Emissions (total metric tons carbon dioxide equivalent, MT CO2e)	Unmitigated Operational Emissions (MT CO2e per year)
Proposed Project	282 high-rise multi-family units	25,000 square feet, ground floor retail	314 spaces occupying 160,418 square feet	1,549	9,053
Hypothetical Project with Employment Overlay	None	25,000 square feet, ground floor retail; 299,146 square feet, office	449 spaces occupying 229,243 square feet	1,577	11,201

No mitigation was included in any of the estimates presented above. The proposed project includes affordable housing units. Income is associated with travel demand and therefore this element of the project could potentially reduce mobile GHG emissions as compared with the estimate summarized here. We also understand that the proposed project has energy efficiency and renewable energy-related features, which were also *not* factored into this analysis. Since it is possible that a hypothetical project could also contain design features and mitigation measures that could reduce emissions, the comparison is more useful without any consideration given to possible GHG-reducing project components.

4th Ave and C Street Residential Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Enclosed Parking with Elevator	160.42	1000sqft	0.57	160,418.00	0
Apartments High Rise	282.00	Dwelling Unit	0.57	396,475.00	807
Convenience Market (24 Hour)	25.00	1000sqft	0.57	25,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage for project site is based on 25,000 square feet. Parking includes 314 parking spaces.

Construction Phase - Demolition = 3 months; Grading = 4 months; Backbone Infrastructure = 2 months; Building Construction = 22 months; Paving = 1 month; Architectural Coating = 6 months. Construction schedule from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Demolition -

Grading - Grading assumes a single pass since project site is already at grade.

Woodstoves - Assume no fireplaces or woodstoves.

Mobile Land Use Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	130.00
tblConstructionPhase	NumDays	200.00	455.00
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	4.00	88.00
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	PhaseEndDate	5/1/2019	3/31/2019
tblConstructionPhase	PhaseEndDate	3/29/2019	3/31/2019
tblConstructionPhase	PhaseEndDate	10/2/2017	6/30/2017
tblConstructionPhase	PhaseEndDate	5/1/2019	10/31/2018

tblConstructionPhase	PhaseEndDate	9/1/2017	6/30/2017
tblConstructionPhase	PhaseStartDate	11/1/2018	10/1/2018
tblConstructionPhase	PhaseStartDate	6/1/2017	3/1/2017
tblConstructionPhase	PhaseStartDate	4/1/2019	10/1/2018
tblConstructionPhase	PhaseStartDate	7/1/2017	5/1/2017
tblFireplaces	FireplaceWoodMass	3,078.40	0.00
tblFireplaces	NumberGas	155.10	0.00
tblFireplaces	NumberNoFireplace	28.20	282.00
tblFireplaces	NumberWood	98.70	0.00
tblGrading	AcresOfGrading	0.00	0.57
tblLandUse	LandUseSquareFeet	160,420.00	160,418.00
tblLandUse	LandUseSquareFeet	282,000.00	396,475.00
tblLandUse	LotAcreage	3.68	0.57
tblLandUse	LotAcreage	4.55	0.57
tblOffRoadEquipment	HorsePower	162.00	89.00
tblOffRoadEquipment	LoadFactor	0.38	0.20
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00

tblProjectCharacteristics	OperationalYear	2014	2020
tblWoodstoves	NumberCatalytic	14.10	0.00
tblWoodstoves	NumberNoncatalytic	14.10	0.00
tblWoodstoves	WoodstoveDayYear	82.00	0.00
tblWoodstoves	WoodstoveWoodMass	3,019.20	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					
2017	0.4278	3.8048	3.5288	7.0900e-003	0.3663	0.1783	0.5446	0.0781	0.1687	0.2468	0.0000	606.7479	606.7479	0.0849	0.0000	608.5309
2018	4.7124	3.3643	4.3702	9.2600e-003	0.3578	0.1636	0.5214	0.0961	0.1591	0.2552	0.0000	744.8953	744.8953	0.0576	0.0000	746.1041
2019	4.2250	0.7954	1.1098	2.4700e-003	0.0984	0.0377	0.1361	0.0264	0.0367	0.0632	0.0000	193.8605	193.8605	0.0142	0.0000	194.1595
Total	9.3652	7.9645	9.0088	0.0188	0.8225	0.3795	1.2020	0.2007	0.3645	0.5652	0.0000	1,545.5038	1,545.5038	0.1567	0.0000	1,548.7945

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					
2017	0.4278	3.8048	3.5288	7.0900e-003	0.3663	0.1783	0.5446	0.0781	0.1687	0.2468	0.0000	606.7476	606.7476	0.0849	0.0000	608.5305
2018	4.7124	3.3643	4.3702	9.2600e-003	0.3578	0.1636	0.5214	0.0961	0.1591	0.2552	0.0000	744.8950	744.8950	0.0576	0.0000	746.1037
2019	4.2250	0.7954	1.1098	2.4700e-003	0.0984	0.0377	0.1361	0.0264	0.0367	0.0632	0.0000	193.8604	193.8604	0.0142	0.0000	194.1594
Total	9.3652	7.9645	9.0087	0.0188	0.8225	0.3795	1.2020	0.2007	0.3645	0.5652	0.0000	1,545.5030	1,545.5030	0.1567	0.0000	1,548.7936

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

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	3.1718	0.0243	2.1026	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4236	3.4236	3.3400e-003	0.0000	3.4939
Energy	8.6500e-003	0.0741	0.0327	4.7000e-004		5.9700e-003	5.9700e-003	5.9700e-003	5.9700e-003	0.0000	872.1314	872.1314	0.0333	8.1200e-003	875.3475	
Mobile	8.7718	11.1266	63.4253	0.1142	7.4298	0.1444	7.5742	1.9871	0.1333	2.1204	0.0000	7,916.1077	7,916.1077	0.3453	0.0000	7,923.3585
Waste						0.0000	0.0000		0.0000	0.0000	41.5827	0.0000	41.5827	2.4575	0.0000	93.1895
Water						0.0000	0.0000		0.0000	0.0000	6.4165	132.2440	138.6605	0.6644	0.0167	157.7776
Total	11.9523	11.2250	65.5605	0.1148	7.4298	0.1619	7.5917	1.9871	0.1508	2.1379	47.9992	8,923.9067	8,971.9059	3.5037	0.0248	9,053.1669

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	3.1718	0.0243	2.1026	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4236	3.4236	3.3400e-003	0.0000	3.4939	
Energy	8.6500e-003	0.0741	0.0327	4.7000e-004		5.9700e-003	5.9700e-003		5.9700e-003	5.9700e-003	0.0000	872.1314	872.1314	0.0333	8.1200e-003	875.3475	
Mobile	8.7718	11.1266	63.4253	0.1142	7.4298	0.1444	7.5742	1.9871	0.1333	2.1204	0.0000	7,916.1077	7,916.1077	0.3453	0.0000	7,923.3585	
Waste						0.0000	0.0000		0.0000	0.0000	41.5827	0.0000	41.5827	2.4575	0.0000	93.1895	
Water						0.0000	0.0000		0.0000	0.0000	6.4165	132.2440	138.6605	0.6642	0.0166	157.7673	
Total	11.9523	11.2250	65.5605	0.1148	7.4298	0.1619	7.5917	1.9871	0.1508	2.1379	47.9992	8,923.9067	8,971.9059	3.5036	0.0248	9,053.1567	

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	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	3/1/2017	5/31/2017	5	66	
2	Grading	Grading	3/1/2017	6/30/2017	5	88	
3	Utilities	Trenching	5/1/2017	6/30/2017	5	45	
4	Building Construction	Building Construction	7/1/2017	3/31/2019	5	455	
5	Paving	Paving	10/1/2018	10/31/2018	5	23	
6	Architectural Coating	Architectural Coating	10/1/2018	3/31/2019	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.57

Acres of Paving: 0

Residential Indoor: 802,862; Residential Outdoor: 267,621; Non-Residential Indoor: 278,127; Non-Residential Outdoor: 92,709 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Demolition	Excavators	1		89	0.20
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Bore/Drill Rigs	1	8.00	205	0.50
Grading	Excavators	1	8.00	162	0.38
Grading	Graders	0	6.00	174	0.41
Grading	Rubber Tired Dozers	0	6.00	255	0.40
Grading	Rubber Tired Loaders	2	8.00	199	0.36
Grading	Skid Steer Loaders	1	8.00	64	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	62	0.31
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Generator Sets	3	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Welders	0	8.00	46	0.45
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Paving	Forklifts	1	8.00	89	0.20
Paving	Pavers	0	6.00	125	0.42
Paving	Paving Equipment	0	8.00	130	0.36
Paving	Rollers	0	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	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	1,582.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	278.00	61.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	56.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2017

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					0.1733	0.0000	0.1733	0.0263	0.0000	0.0263	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0602	0.6363	0.4860	5.0000e-004	0.0353	0.0353		0.0325	0.0325	0.0000	46.2989	46.2989	0.0142	0.0000	46.5968		
Total	0.0602	0.6363	0.4860	5.0000e-004	0.1733	0.0353	0.2087	0.0263	0.0325	0.0588	0.0000	46.2989	46.2989	0.0142	0.0000	46.5968	

3.2 Demolition - 2017

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	0.0155	0.2048	0.1813	5.9000e-004	0.0135	2.6600e-003	0.0162	3.7000e-003	2.4500e-003	6.1500e-003	0.0000	53.1091	53.1091	3.7000e-004	0.0000	53.1169	
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	1.0300e-003	1.3600e-003	0.0129	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3708	2.3708	1.2000e-004	0.0000	2.3734	
Total	0.0165	0.2062	0.1941	6.2000e-004	0.0162	2.6800e-003	0.0188	4.4000e-003	2.4700e-003	6.8700e-003	0.0000	55.4800	55.4800	4.9000e-004	0.0000	55.4903	

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					0.1733	0.0000	0.1733	0.0263	0.0000	0.0263	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0602	0.6363	0.4860	5.0000e-004	0.0353	0.0353		0.0325	0.0325	0.0000	46.2988	46.2988	0.0142	0.0000	46.5967		
Total	0.0602	0.6363	0.4860	5.0000e-004	0.1733	0.0353	0.2087	0.0263	0.0325	0.0588	0.0000	46.2988	46.2988	0.0142	0.0000	46.5967	

3.2 Demolition - 2017

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	0.0155	0.2048	0.1813	5.9000e-004	0.0135	2.6600e-003	0.0162	3.7000e-003	2.4500e-003	6.1500e-003	0.0000	53.1091	53.1091	3.7000e-004	0.0000	53.1169	
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	1.0300e-003	1.3600e-003	0.0129	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3708	2.3708	1.2000e-004	0.0000	2.3734	
Total	0.0165	0.2062	0.1941	6.2000e-004	0.0162	2.6800e-003	0.0188	4.4000e-003	2.4700e-003	6.8700e-003	0.0000	55.4800	55.4800	4.9000e-004	0.0000	55.4903	

3.3 Grading - 2017

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					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0881	1.0836	0.5489	1.3700e-003		0.0445	0.0445		0.0410	0.0410	0.0000	126.7115	126.7115	0.0388	0.0000	127.5268
Total	0.0881	1.0836	0.5489	1.3700e-003	3.0000e-004	0.0445	0.0448	3.0000e-005	0.0410	0.0410	0.0000	126.7115	126.7115	0.0388	0.0000	127.5268

3.3 Grading - 2017

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	2.0500e-003	2.7200e-003	0.0257	7.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	4.0000e-005	1.4400e-003	0.0000	4.7417	4.7417	2.4000e-004	0.0000	4.7467	
Total	2.0500e-003	2.7200e-003	0.0257	7.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	4.0000e-005	1.4400e-003	0.0000	4.7417	4.7417	2.4000e-004	0.0000	4.7467	

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					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0881	1.0836	0.5489	1.3700e-003		0.0445	0.0445		0.0410	0.0410	0.0000	126.7113	126.7113	0.0388	0.0000	127.5266	
Total	0.0881	1.0836	0.5489	1.3700e-003	3.0000e-004	0.0445	0.0448	3.0000e-005	0.0410	0.0410	0.0000	126.7113	126.7113	0.0388	0.0000	127.5266	

3.3 Grading - 2017

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	2.0500e-003	2.7200e-003	0.0257	7.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	4.0000e-005	1.4400e-003	0.0000	4.7417	4.7417	2.4000e-004	0.0000	4.7467	
Total	2.0500e-003	2.7200e-003	0.0257	7.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	4.0000e-005	1.4400e-003	0.0000	4.7417	4.7417	2.4000e-004	0.0000	4.7467	

3.4 Utilities - 2017

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	7.1300e-003	0.0685	0.0539	7.0000e-005		5.1500e-003	5.1500e-003	4.7400e-003	4.7400e-003	0.0000	6.4963	6.4963	1.9900e-003	0.0000	6.5381	
Total	7.1300e-003	0.0685	0.0539	7.0000e-005		5.1500e-003	5.1500e-003	4.7400e-003	4.7400e-003	0.0000	6.4963	6.4963	1.9900e-003	0.0000	6.5381	

3.4 Utilities - 2017

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	2.1000e-004	2.8000e-004	2.6300e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4849	0.4849	2.0000e-005	0.0000	0.4855	
Total	2.1000e-004	2.8000e-004	2.6300e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4849	0.4849	2.0000e-005	0.0000	0.4855	

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	7.1300e-003	0.0685	0.0539	7.0000e-005		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	6.4963	6.4963	1.9900e-003	0.0000	6.5381	
Total	7.1300e-003	0.0685	0.0539	7.0000e-005		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	6.4963	6.4963	1.9900e-003	0.0000	6.5381	

3.4 Utilities - 2017

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	2.1000e-004	2.8000e-004	2.6300e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4849	0.4849	2.0000e-005	0.0000	0.4855	
Total	2.1000e-004	2.8000e-004	2.6300e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4849	0.4849	2.0000e-005	0.0000	0.4855	

3.5 Building Construction - 2017

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	0.1562	1.3867	1.0013	1.7400e-003		0.0845	0.0845		0.0824	0.0824	0.0000	152.6156	152.6156	0.0219	0.0000	153.0758	
Total	0.1562	1.3867	1.0013	1.7400e-003		0.0845	0.0845		0.0824	0.0824	0.0000	152.6156	152.6156	0.0219	0.0000	153.0758	

3.5 Building Construction - 2017

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	0.0413	0.3463	0.5128	9.4000e-004	0.0258	4.9500e-003	0.0308	7.3800e-003	4.5600e-003	0.0119	0.0000	84.0976	84.0976	6.3000e-004	0.0000	84.1110	
Worker	0.0562	0.0744	0.7035	1.7800e-003	0.1449	1.0800e-003	0.1460	0.0385	1.0000e-003	0.0395	0.0000	129.8214	129.8214	6.6000e-003	0.0000	129.9600	
Total	0.0974	0.4207	1.2163	2.7200e-003	0.1707	6.0300e-003	0.1767	0.0459	5.5600e-003	0.0514	0.0000	213.9191	213.9191	7.2300e-003	0.0000	214.0710	

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	0.1562	1.3867	1.0013	1.7400e-003		0.0845	0.0845		0.0824	0.0824	0.0000	152.6155	152.6155	0.0219	0.0000	153.0756	
Total	0.1562	1.3867	1.0013	1.7400e-003		0.0845	0.0845		0.0824	0.0824	0.0000	152.6155	152.6155	0.0219	0.0000	153.0756	

3.5 Building Construction - 2017

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	0.0413	0.3463	0.5128	9.4000e-004	0.0258	4.9500e-003	0.0308	7.3800e-003	4.5600e-003	0.0119	0.0000	84.0976	84.0976	6.3000e-004	0.0000	84.1110	
Worker	0.0562	0.0744	0.7035	1.7800e-003	0.1449	1.0800e-003	0.1460	0.0385	1.0000e-003	0.0395	0.0000	129.8214	129.8214	6.6000e-003	0.0000	129.9600	
Total	0.0974	0.4207	1.2163	2.7200e-003	0.1707	6.0300e-003	0.1767	0.0459	5.5600e-003	0.0514	0.0000	213.9191	213.9191	7.2300e-003	0.0000	214.0710	

3.5 Building Construction - 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					
Off-Road	0.2753	2.5089	1.9672	3.4900e-003		0.1457	0.1457		0.1422	0.1422	0.0000	305.0529	305.0529	0.0420	0.0000	305.9358	
Total	0.2753	2.5089	1.9672	3.4900e-003		0.1457	0.1457		0.1422	0.1422	0.0000	305.0529	305.0529	0.0420	0.0000	305.9358	

3.5 Building Construction - 2018

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	0.0778	0.6277	0.9841	1.8800e-003	0.0518	9.2300e-003	0.0610	0.0148	8.4900e-003	0.0233	0.0000	165.9416	165.9416	1.2500e-003	0.0000	165.9678	
Worker	0.1025	0.1363	1.2776	3.5800e-003	0.2909	2.1300e-003	0.2931	0.0773	1.9700e-003	0.0793	0.0000	250.8540	250.8540	0.0123	0.0000	251.1129	
Total	0.1803	0.7641	2.2617	5.4600e-003	0.3427	0.0114	0.3541	0.0921	0.0105	0.1026	0.0000	416.7956	416.7956	0.0136	0.0000	417.0807	

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	0.2753	2.5089	1.9672	3.4900e-003		0.1457	0.1457		0.1422	0.1422	0.0000	305.0525	305.0525	0.0420	0.0000	305.9355	
Total	0.2753	2.5089	1.9672	3.4900e-003		0.1457	0.1457		0.1422	0.1422	0.0000	305.0525	305.0525	0.0420	0.0000	305.9355	

3.5 Building Construction - 2018

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	0.0778	0.6277	0.9841	1.8800e-003	0.0518	9.2300e-003	0.0610	0.0148	8.4900e-003	0.0233	0.0000	165.9416	165.9416	1.2500e-003	0.0000	165.9678	
Worker	0.1025	0.1363	1.2776	3.5800e-003	0.2909	2.1300e-003	0.2931	0.0773	1.9700e-003	0.0793	0.0000	250.8540	250.8540	0.0123	0.0000	251.1129	
Total	0.1803	0.7641	2.2617	5.4600e-003	0.3427	0.0114	0.3541	0.0921	0.0105	0.1026	0.0000	416.7956	416.7956	0.0136	0.0000	417.0807	

3.5 Building Construction - 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					
Off-Road	0.0596	0.5595	0.4743	8.6000e-004		0.0308	0.0308		0.0301	0.0301	0.0000	74.4711	74.4711	9.8300e-003	0.0000	74.6776	
Total	0.0596	0.5595	0.4743	8.6000e-004		0.0308	0.0308		0.0301	0.0301	0.0000	74.4711	74.4711	9.8300e-003	0.0000	74.6776	

3.5 Building Construction - 2019

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	0.0178	0.1401	0.2303	4.6000e-004	0.0127	2.1100e-003	0.0148	3.6300e-003	1.9400e-003	5.5700e-003	0.0000	39.9895	39.9895	3.0000e-004	0.0000	39.9958	
Worker	0.0233	0.0309	0.2882	8.8000e-004	0.0713	5.2000e-004	0.0719	0.0190	4.8000e-004	0.0194	0.0000	59.2868	59.2868	2.8400e-003	0.0000	59.3465	
Total	0.0411	0.1710	0.5185	1.3400e-003	0.0840	2.6300e-003	0.0867	0.0226	2.4200e-003	0.0250	0.0000	99.2763	99.2763	3.1400e-003	0.0000	99.3423	

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	0.0596	0.5595	0.4743	8.6000e-004		0.0308	0.0308		0.0301	0.0301	0.0000	74.4710	74.4710	9.8300e-003	0.0000	74.6775	
Total	0.0596	0.5595	0.4743	8.6000e-004		0.0308	0.0308		0.0301	0.0301	0.0000	74.4710	74.4710	9.8300e-003	0.0000	74.6775	

3.5 Building Construction - 2019

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	0.0178	0.1401	0.2303	4.6000e-004	0.0127	2.1100e-003	0.0148	3.6300e-003	1.9400e-003	5.5700e-003	0.0000	39.9895	39.9895	3.0000e-004	0.0000	39.9958	
Worker	0.0233	0.0309	0.2882	8.8000e-004	0.0713	5.2000e-004	0.0719	0.0190	4.8000e-004	0.0194	0.0000	59.2868	59.2868	2.8400e-003	0.0000	59.3465	
Total	0.0411	0.1710	0.5185	1.3400e-003	0.0840	2.6300e-003	0.0867	0.0226	2.4200e-003	0.0250	0.0000	99.2763	99.2763	3.1400e-003	0.0000	99.3423	

3.6 Paving - 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					
Off-Road	2.0500e-003	0.0181	0.0139	2.0000e-005		1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003	0.0000	1.6044	1.6044	5.0000e-004	0.0000	1.6149
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0500e-003	0.0181	0.0139	2.0000e-005		1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003	0.0000	1.6044	1.6044	5.0000e-004	0.0000	1.6149

3.6 Paving - 2018

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-004	1.3000e-004	1.2100e-003	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2386	0.2386	1.0000e-005	0.0000	0.2388	
Total	1.0000e-004	1.3000e-004	1.2100e-003	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2386	0.2386	1.0000e-005	0.0000	0.2388	

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	2.0500e-003	0.0181	0.0139	2.0000e-005		1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003	0.0000	1.6044	1.6044	5.0000e-004	0.0000	1.6149	
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	2.0500e-003	0.0181	0.0139	2.0000e-005		1.4400e-003	1.4400e-003		1.3300e-003	1.3300e-003	0.0000	1.6044	1.6044	5.0000e-004	0.0000	1.6149	

3.6 Paving - 2018

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-004	1.3000e-004	1.2100e-003	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2386	0.2386	1.0000e-005	0.0000	0.2388	
Total	1.0000e-004	1.3000e-004	1.2100e-003	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2386	0.2386	1.0000e-005	0.0000	0.2388	

3.7 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	4.2396						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	9.8500e-003	0.0662	0.0612	1.0000e-004			4.9700e-003	4.9700e-003		4.9700e-003	4.9700e-003	0.0000	8.4258	8.4258	8.0000e-004	0.0000	8.4426
Total	4.2494	0.0662	0.0612	1.0000e-004			4.9700e-003	4.9700e-003		4.9700e-003	4.9700e-003	0.0000	8.4258	8.4258	8.0000e-004	0.0000	8.4426

3.7 Architectural Coating - 2018

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	5.2200e-003	6.9400e-003	0.0651	1.8000e-004	0.0148	1.1000e-004	0.0149	3.9400e-003	1.0000e-004	4.0400e-003	0.0000	12.7781	12.7781	6.3000e-004	0.0000	12.7913	
Total	5.2200e-003	6.9400e-003	0.0651	1.8000e-004	0.0148	1.1000e-004	0.0149	3.9400e-003	1.0000e-004	4.0400e-003	0.0000	12.7781	12.7781	6.3000e-004	0.0000	12.7913	

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	4.2396						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	9.8500e-003	0.0662	0.0612	1.0000e-004			4.9700e-003	4.9700e-003		4.9700e-003	4.9700e-003	0.0000	8.4257	8.4257	8.0000e-004	0.0000	8.4426
Total	4.2494	0.0662	0.0612	1.0000e-004			4.9700e-003	4.9700e-003		4.9700e-003	4.9700e-003	0.0000	8.4257	8.4257	8.0000e-004	0.0000	8.4426

3.7 Architectural Coating - 2018

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	5.2200e-003	6.9400e-003	0.0651	1.8000e-004	0.0148	1.1000e-004	0.0149	3.9400e-003	1.0000e-004	4.0400e-003	0.0000	12.7781	12.7781	6.3000e-004	0.0000	12.7913	
Total	5.2200e-003	6.9400e-003	0.0651	1.8000e-004	0.0148	1.1000e-004	0.0149	3.9400e-003	1.0000e-004	4.0400e-003	0.0000	12.7781	12.7781	6.3000e-004	0.0000	12.7913	

3.7 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	4.1111						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	8.5300e-003	0.0587	0.0589	1.0000e-004			4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	8.1704	8.1704	6.9000e-004	0.0000	8.1849
Total	4.1196	0.0587	0.0589	1.0000e-004			4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	8.1704	8.1704	6.9000e-004	0.0000	8.1849

3.7 Architectural Coating - 2019

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	4.7000e-003	6.2200e-003	0.0580	1.8000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	1.0000e-004	3.9200e-003	0.0000	11.9427	11.9427	5.7000e-004	0.0000	11.9547	
Total	4.7000e-003	6.2200e-003	0.0580	1.8000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	1.0000e-004	3.9200e-003	0.0000	11.9427	11.9427	5.7000e-004	0.0000	11.9547	

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	4.1111						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	8.5300e-003	0.0587	0.0589	1.0000e-004			4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	8.1704	8.1704	6.9000e-004	0.0000	8.1849
Total	4.1196	0.0587	0.0589	1.0000e-004			4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	8.1704	8.1704	6.9000e-004	0.0000	8.1849

3.7 Architectural Coating - 2019

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	4.7000e-003	6.2200e-003	0.0580	1.8000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	1.0000e-004	3.9200e-003	0.0000	11.9427	11.9427	5.7000e-004	0.0000	11.9547	
Total	4.7000e-003	6.2200e-003	0.0580	1.8000e-004	0.0144	1.0000e-004	0.0145	3.8200e-003	1.0000e-004	3.9200e-003	0.0000	11.9427	11.9427	5.7000e-004	0.0000	11.9547	

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	8.7718	11.1266	63.4253	0.1142	7.4298	0.1444	7.5742	1.9871	0.1333	2.1204	0.0000	7,916.1077	7,916.1077	0.3453	0.0000	7,923.3585
Unmitigated	8.7718	11.1266	63.4253	0.1142	7.4298	0.1444	7.5742	1.9871	0.1333	2.1204	0.0000	7,916.1077	7,916.1077	0.3453	0.0000	7,923.3585

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments High Rise	1,858.38	2,019.12	1711.74	5,311,990	5,311,990
Convenience Market (24 Hour)	18,449.75	21,577.50	18961.25	14,446,844	14,446,844
Enclosed Parking with Elevator	0.00	0.00	0.00		
Total	20,308.13	23,596.62	20,672.99	19,758,834	19,758,834

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments High Rise	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

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	786.5728	786.5728	0.0317	6.5500e-003	789.2683	
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	786.5728	786.5728	0.0317	6.5500e-003	789.2683	
NaturalGas Mitigated	8.6500e-003	0.0741	0.0327	4.7000e-004			5.9700e-003	5.9700e-003		5.9700e-003	5.9700e-003	0.0000	85.5585	85.5585	1.6400e-003	1.5700e-003	86.0792
NaturalGas Unmitigated	8.6500e-003	0.0741	0.0327	4.7000e-004			5.9700e-003	5.9700e-003		5.9700e-003	5.9700e-003	0.0000	85.5585	85.5585	1.6400e-003	1.5700e-003	86.0792

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					
Convenience Market (24 Hour)	57250	3.1000e-004	2.8100e-003	2.3600e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	3.0551	3.0551	6.0000e-005	6.0000e-005	3.0737	
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Apartments High Rise	1.54606e+006	8.3400e-003	0.0712	0.0303	4.5000e-004		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	82.5035	82.5035	1.5800e-003	1.5100e-003	83.0056	
Total		8.6500e-003	0.0741	0.0327	4.7000e-004		5.9700e-003	5.9700e-003		5.9700e-003	5.9700e-003	0.0000	85.5585	85.5585	1.6400e-003	1.5700e-003	86.0792	

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Apartments High Rise	1.54606e+006	8.3400e-003	0.0712	0.0303	4.5000e-004		5.7600e-003	5.7600e-003		5.7600e-003	5.7600e-003	0.0000	82.5035	82.5035	1.5800e-003	1.5100e-003	83.0056	
Convenience Market (24 Hour)	57250	3.1000e-004	2.8100e-003	2.3600e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	3.0551	3.0551	6.0000e-005	6.0000e-005	3.0737	
Total		8.6500e-003	0.0741	0.0327	4.7000e-004		5.9700e-003	5.9700e-003		5.9700e-003	5.9700e-003	0.0000	85.5585	85.5585	1.6400e-003	1.5700e-003	86.0792	

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	974612	318.5117	0.0128	2.6500e-003	319.6032
Convenience Market (24 Hour)	351000	114.7099	4.6200e-003	9.6000e-004	115.1030
Enclosed Parking with Elevator	1.08122e+006	353.3513	0.0142	2.9400e-003	354.5622
Total		786.5728	0.0317	6.5500e-003	789.2683

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments High Rise	974612	318.5117	0.0128	2.6500e-003	319.6032
Convenience Market (24 Hour)	351000	114.7099	4.6200e-003	9.6000e-004	115.1030
Enclosed Parking with Elevator	1.08122e+006	353.3513	0.0142	2.9400e-003	354.5622
Total		786.5728	0.0317	6.5500e-003	789.2683

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	3.1718	0.0243	2.1026	1.1000e-004			0.0116	0.0116		0.0116	0.0116	0.0000	3.4236	3.4236	3.3400e-003	0.0000	3.4939
Unmitigated	3.1718	0.0243	2.1026	1.1000e-004			0.0116	0.0116		0.0116	0.0116	0.0000	3.4236	3.4236	3.3400e-003	0.0000	3.4939

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	0.8351					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	2.2726					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	0.0641	0.0243	2.1026	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4236	3.4236	3.3400e-003	0.0000	3.4939	
Total	3.1718	0.0243	2.1026	1.1000e-004		0.0116	0.0116		0.0116	0.0116	0.0000	3.4236	3.4236	3.3400e-003	0.0000	3.4939	

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	0.8351						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.2726						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000			0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0641	0.0243	2.1026	1.1000e-004			0.0116	0.0116		0.0116	0.0116	0.0000	3.4236	3.4236	3.3400e-003	0.0000	3.4939
Total	3.1718	0.0243	2.1026	1.1000e-004			0.0116	0.0116		0.0116	0.0116	0.0000	3.4236	3.4236	3.3400e-003	0.0000	3.4939

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	138.6605	0.6642	0.0166	157.7673
Unmitigated	138.6605	0.6644	0.0167	157.7776

7.2 Water by Land Use

Unmitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	18.3734 / 11.5833	126.0719	0.6035	0.0151	143.4390
Convenience Market (24 Hour)	1.85181 / 1.13498	12.5886	0.0608	1.5200e- 003	14.3386
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		138.6605	0.6644	0.0167	157.7776

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments High Rise	18.3734 / 11.5833	126.0719	0.6034	0.0151	143.4297
Convenience Market (24 Hour)	1.85181 / 1.13498	12.5886	0.0608	1.5200e- 003	14.3376
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		138.6605	0.6642	0.0166	157.7673

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
MT/yr				
Mitigated	41.5827	2.4575	0.0000	93.1895
Unmitigated	41.5827	2.4575	0.0000	93.1895

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use					
	tons	MT/yr			
Apartments High Rise	129.72	26.3320	1.5562	0.0000	59.0117
Convenience Market (24 Hour)	75.13	15.2507	0.9013	0.0000	34.1778
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		41.5827	2.4575	0.0000	93.1895

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments High Rise	129.72	26.3320	1.5562	0.0000	59.0117
Convenience Market (24 Hour)	75.13	15.2507	0.9013	0.0000	34.1778
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
Total		41.5827	2.4575	0.0000	93.1895

9.0 Operational Offroad

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

4th Ave and C Street Hypothetical Project

San Diego County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market (24 Hour)	25.00	1000sqft	0.57	25,000.00	0
Enclosed Parking with Elevator	228.23	1000sqft	0.57	228,233.00	0
General Office Building	299.15	1000sqft	0.57	299,146.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2020
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	720.49	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage for project site is based on 25,000 square feet.

Construction Phase - Demolition = 3 months; Grading = 4 months; Backbone Infrastructure = 2 months; Building Construction = 22 months; Paving = 1 month; Architectural Coating = 6 months. Construction schedule from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Off-road Equipment - Based on construction equipment list from Clarke Construction.

Grading - Grading assumes a single pass since project site is already at grade.

Demolition -

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	20.00	66.00
tblConstructionPhase	NumDays	4.00	88.00
tblConstructionPhase	NumDays	200.00	455.00
tblConstructionPhase	NumDays	10.00	23.00
tblConstructionPhase	NumDays	10.00	130.00
tblConstructionPhase	PhaseEndDate	10/2/2017	6/30/2017
tblConstructionPhase	PhaseEndDate	9/1/2017	6/30/2017
tblConstructionPhase	PhaseEndDate	3/29/2019	3/31/2019
tblConstructionPhase	PhaseEndDate	5/1/2019	10/31/2018
tblConstructionPhase	PhaseEndDate	5/1/2019	3/31/2019
tblConstructionPhase	PhaseStartDate	6/1/2017	3/1/2017
tblConstructionPhase	PhaseStartDate	7/1/2017	5/1/2017
tblConstructionPhase	PhaseStartDate	4/1/2019	10/1/2018

tblConstructionPhase	PhaseStartDate	11/1/2018	10/1/2018
tblGrading	AcresOfGrading	0.00	0.57
tblLandUse	LotAcreage	5.24	0.57
tblLandUse	LotAcreage	6.87	0.57
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.50	0.50
tblOffRoadEquipment	LoadFactor	0.38	0.38
tblOffRoadEquipment	LoadFactor	0.36	0.36
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.37	0.37
tblOffRoadEquipment	LoadFactor	0.31	0.31
tblOffRoadEquipment	LoadFactor	0.20	0.20
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Bore/Drill Rigs
tblOffRoadEquipment	OffRoadEquipmentType		Excavators
tblOffRoadEquipment	OffRoadEquipmentType		Rubber Tired Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Skid Steer Loaders
tblOffRoadEquipment	OffRoadEquipmentType		Tractors/Loaders/Backhoes
tblOffRoadEquipment	OffRoadEquipmentType		Aerial Lifts
tblOffRoadEquipment	OffRoadEquipmentType		Forklifts
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	3.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	2.00

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	3.00	0.00
tblProjectCharacteristics	OperationalYear	2014	2020

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					
2017	0.4446	4.0912	3.6981	7.2300e-003	0.3383	0.1871	0.5254	0.0710	0.1768	0.2477	0.0000	628.3861	628.3861	0.0885	0.0000	630.2442
2018	3.7305	3.6324	4.4764	9.1300e-003	0.2974	0.1675	0.4649	0.0806	0.1627	0.2433	0.0000	752.3653	752.3653	0.0545	0.0000	753.5098
2019	3.2659	0.8537	1.1254	2.4000e-003	0.0805	0.0386	0.1191	0.0218	0.0375	0.0593	0.0000	193.4533	193.4533	0.0134	0.0000	193.7350
Total	7.4410	8.5772	9.2999	0.0188	0.7163	0.3931	1.1093	0.1733	0.3770	0.5503	0.0000	1,574.2047	1,574.2047	0.1564	0.0000	1,577.4890

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					
2017	0.4446	4.0912	3.6981	7.2300e-003	0.3383	0.1871	0.5254	0.0710	0.1768	0.2477	0.0000	628.3857	628.3857	0.0885	0.0000	630.2438
2018	3.7305	3.6324	4.4764	9.1300e-003	0.2974	0.1675	0.4649	0.0806	0.1627	0.2433	0.0000	752.3649	752.3649	0.0545	0.0000	753.5094
2019	3.2659	0.8537	1.1254	2.4000e-003	0.0805	0.0386	0.1191	0.0218	0.0375	0.0593	0.0000	193.4532	193.4532	0.0134	0.0000	193.7349
Total	7.4410	8.5772	9.2999	0.0188	0.7163	0.3931	1.1093	0.1733	0.3770	0.5503	0.0000	1,574.2038	1,574.2038	0.1564	0.0000	1,577.4881

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

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	2.7979	5.0000e-005	5.1100e-003	0.0000		2.0000e-005	2.0000e-005	2.0000e-005	2.0000e-005	0.0000	9.8700e-003	9.8700e-003	3.0000e-005	0.0000	0.0104		
Energy	0.0342	0.3112	0.2614	1.8700e-003		0.0237	0.0237	0.0237	0.0237	0.0000	2,421.6810	2,421.6810	0.0903	0.0236	2,430.8805		
Mobile	9.0426	11.4834	65.4274	0.1180	7.6750	0.1491	7.8241	2.0527	0.1376	2.1903	0.0000	8,175.7956	8,175.7956	0.3565	0.0000	8,183.2812	
Waste						0.0000	0.0000		0.0000	0.0000	71.7248	0.0000	71.7248	4.2388	0.0000	160.7400	
Water						0.0000	0.0000		0.0000	0.0000	17.4556	356.5756	374.0312	1.8072	0.0453	426.0263	
Total	11.8747	11.7947	65.6939	0.1198	7.6750	0.1728	7.8478	2.0527	0.1613	2.2140	89.1804	10,954.0620	11,043.2425	6.4929	0.0689	11,200.9385	

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	2.7979	5.0000e-005	5.1100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8700e-003	9.8700e-003	3.0000e-005	0.0000	0.0104	
Energy	0.0342	0.3112	0.2614	1.8700e-003		0.0237	0.0237		0.0237	0.0237	0.0000	2,421.6810	2,421.6810	0.0903	0.0236	2,430.8805	
Mobile	9.0426	11.4834	65.4274	0.1180	7.6750	0.1491	7.8241	2.0527	0.1376	2.1903	0.0000	8,175.7956	8,175.7956	0.3565	0.0000	8,183.2812	
Waste						0.0000	0.0000		0.0000	0.0000	71.7248	0.0000	71.7248	4.2388	0.0000	160.7400	
Water						0.0000	0.0000		0.0000	0.0000	17.4556	356.5756	374.0312	1.8069	0.0452	425.9985	
Total	11.8747	11.7947	65.6939	0.1198	7.6750	0.1728	7.8478	2.0527	0.1613	2.2140	89.1804	10,954.0620	11,043.2425	6.4925	0.0688	11,200.9106	

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.10	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	3/1/2017	5/31/2017	5	66	
2	Grading	Grading	3/1/2017	6/30/2017	5	88	
3	Utilities	Trenching	5/1/2017	6/30/2017	5	45	
4	Building Construction	Building Construction	7/1/2017	3/31/2019	5	455	
5	Paving	Paving	10/1/2018	10/31/2018	5	23	
6	Architectural Coating	Architectural Coating	10/1/2018	3/31/2019	5	130	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0.57

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 828,569; Non-Residential Outdoor: 276,190 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Paving	Cement and Mortar Mixers	0	6.00	9	0.56
Demolition	Concrete/Industrial Saws	0	8.00	81	0.73
Building Construction	Generator Sets	3	8.00	84	0.74
Building Construction	Cranes	1	6.00	226	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Demolition	Excavators	1	8.00	162	0.38
Paving	Pavers	0	6.00	125	0.42
Paving	Rollers	0	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	8.00	255	0.40
Grading	Rubber Tired Dozers	0	6.00	255	0.40
Building Construction	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Grading	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Paving	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Bore/Drill Rigs	1	8.00	205	0.50
Grading	Graders	0	6.00	174	0.41
Paving	Paving Equipment	0	8.00	130	0.36
Grading	Excavators	1	8.00	162	0.38
Building Construction	Welders	0	8.00	46	0.45
Grading	Rubber Tired Loaders	2	8.00	199	0.36
Grading	Skid Steer Loaders	1	8.00	64	0.37
Utilities	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Aerial Lifts	1	8.00	62	0.31
Paving	Forklifts	1	8.00	89	0.20

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	1,582.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Utilities	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	6	200.00	91.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	1	3.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	40.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2017

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					0.1733	0.0000	0.1733	0.0263	0.0000	0.0263	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0722	0.7695	0.5995	6.7000e-004		0.0419	0.0419		0.0385	0.0385	0.0000	62.5837	62.5837	0.0192	0.0000	62.9864	
Total	0.0722	0.7695	0.5995	6.7000e-004	0.1733	0.0419	0.2152	0.0263	0.0385	0.0648	0.0000	62.5837	62.5837	0.0192	0.0000	62.9864	

3.2 Demolition - 2017

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	0.0155	0.2048	0.1813	5.9000e-004	0.0135	2.6600e-003	0.0162	3.7000e-003	2.4500e-003	6.1500e-003	0.0000	53.1091	53.1091	3.7000e-004	0.0000	53.1169	
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	1.0300e-003	1.3600e-003	0.0129	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3708	2.3708	1.2000e-004	0.0000	2.3734	
Total	0.0165	0.2062	0.1941	6.2000e-004	0.0162	2.6800e-003	0.0188	4.4000e-003	2.4700e-003	6.8700e-003	0.0000	55.4800	55.4800	4.9000e-004	0.0000	55.4903	

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					0.1733	0.0000	0.1733	0.0263	0.0000	0.0263	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0722	0.7695	0.5995	6.7000e-004		0.0419	0.0419		0.0385	0.0385	0.0000	62.5836	62.5836	0.0192	0.0000	62.9863	
Total	0.0722	0.7695	0.5995	6.7000e-004	0.1733	0.0419	0.2152	0.0263	0.0385	0.0648	0.0000	62.5836	62.5836	0.0192	0.0000	62.9863	

3.2 Demolition - 2017

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	0.0155	0.2048	0.1813	5.9000e-004	0.0135	2.6600e-003	0.0162	3.7000e-003	2.4500e-003	6.1500e-003	0.0000	53.1091	53.1091	3.7000e-004	0.0000	53.1169	
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	1.0300e-003	1.3600e-003	0.0129	3.0000e-005	2.6500e-003	2.0000e-005	2.6700e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.3708	2.3708	1.2000e-004	0.0000	2.3734	
Total	0.0165	0.2062	0.1941	6.2000e-004	0.0162	2.6800e-003	0.0188	4.4000e-003	2.4700e-003	6.8700e-003	0.0000	55.4800	55.4800	4.9000e-004	0.0000	55.4903	

3.3 Grading - 2017

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					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0884	1.0878	0.5507	1.3700e-003		0.0447	0.0447		0.0411	0.0411	0.0000	127.2142	127.2142	0.0390	0.0000	128.0328
Total	0.0884	1.0878	0.5507	1.3700e-003	3.0000e-004	0.0447	0.0450	3.0000e-005	0.0411	0.0411	0.0000	127.2142	127.2142	0.0390	0.0000	128.0328

3.3 Grading - 2017

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	2.0500e-003	2.7200e-003	0.0257	7.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	4.0000e-005	1.4400e-003	0.0000	4.7417	4.7417	2.4000e-004	0.0000	4.7467	
Total	2.0500e-003	2.7200e-003	0.0257	7.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	4.0000e-005	1.4400e-003	0.0000	4.7417	4.7417	2.4000e-004	0.0000	4.7467	

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					3.0000e-004	0.0000	3.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0884	1.0878	0.5507	1.3700e-003		0.0447	0.0447		0.0411	0.0411	0.0000	127.2141	127.2141	0.0390	0.0000	128.0326	
Total	0.0884	1.0878	0.5507	1.3700e-003	3.0000e-004	0.0447	0.0450	3.0000e-005	0.0411	0.0411	0.0000	127.2141	127.2141	0.0390	0.0000	128.0326	

3.3 Grading - 2017

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	2.0500e-003	2.7200e-003	0.0257	7.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	4.0000e-005	1.4400e-003	0.0000	4.7417	4.7417	2.4000e-004	0.0000	4.7467	
Total	2.0500e-003	2.7200e-003	0.0257	7.0000e-005	5.2900e-003	4.0000e-005	5.3300e-003	1.4100e-003	4.0000e-005	1.4400e-003	0.0000	4.7417	4.7417	2.4000e-004	0.0000	4.7467	

3.4 Utilities - 2017

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	7.1000e-003	0.0682	0.0536	7.0000e-005	5.1300e-003	5.1300e-003	4.7200e-003	4.7200e-003	0.0000	6.4700	6.4700	1.9800e-003	0.0000	6.5116		
Total	7.1000e-003	0.0682	0.0536	7.0000e-005	5.1300e-003	5.1300e-003	4.7200e-003	4.7200e-003	0.0000	6.4700	6.4700	1.9800e-003	0.0000	6.5116		

3.4 Utilities - 2017

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	2.1000e-004	2.8000e-004	2.6300e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4849	0.4849	2.0000e-005	0.0000	0.4855	
Total	2.1000e-004	2.8000e-004	2.6300e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4849	0.4849	2.0000e-005	0.0000	0.4855	

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	7.1000e-003	0.0682	0.0536	7.0000e-005	5.1300e-003	5.1300e-003		4.7200e-003	4.7200e-003	0.0000	6.4700	6.4700	1.9800e-003	0.0000	6.5116		
Total	7.1000e-003	0.0682	0.0536	7.0000e-005	5.1300e-003	5.1300e-003		4.7200e-003	4.7200e-003	0.0000	6.4700	6.4700	1.9800e-003	0.0000	6.5116		

3.4 Utilities - 2017

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	2.1000e-004	2.8000e-004	2.6300e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4849	0.4849	2.0000e-005	0.0000	0.4855	
Total	2.1000e-004	2.8000e-004	2.6300e-003	1.0000e-005	5.4000e-004	0.0000	5.5000e-004	1.4000e-004	0.0000	1.5000e-004	0.0000	0.4849	0.4849	2.0000e-005	0.0000	0.4855	

3.5 Building Construction - 2017

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	0.1562	1.3864	1.0009	1.7400e-003		0.0845	0.0845		0.0824	0.0824	0.0000	152.5578	152.5578	0.0219	0.0000	153.0176	
Total	0.1562	1.3864	1.0009	1.7400e-003		0.0845	0.0845		0.0824	0.0824	0.0000	152.5578	152.5578	0.0219	0.0000	153.0176	

3.5 Building Construction - 2017

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	0.0616	0.5166	0.7649	1.4000e-003	0.0385	7.3900e-003	0.0459	0.0110	6.8000e-003	0.0178	0.0000	125.4571	125.4571	9.5000e-004	0.0000	125.4770	
Worker	0.0404	0.0535	0.5061	1.2800e-003	0.1043	7.8000e-004	0.1050	0.0277	7.2000e-004	0.0284	0.0000	93.3967	93.3967	4.7500e-003	0.0000	93.4964	
Total	0.1020	0.5701	1.2710	2.6800e-003	0.1427	8.1700e-003	0.1509	0.0387	7.5200e-003	0.0462	0.0000	218.8539	218.8539	5.7000e-003	0.0000	218.9734	

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	0.1562	1.3864	1.0009	1.7400e-003		0.0845	0.0845		0.0824	0.0824	0.0000	152.5576	152.5576	0.0219	0.0000	153.0174	
Total	0.1562	1.3864	1.0009	1.7400e-003		0.0845	0.0845		0.0824	0.0824	0.0000	152.5576	152.5576	0.0219	0.0000	153.0174	

3.5 Building Construction - 2017

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	0.0616	0.5166	0.7649	1.4000e-003	0.0385	7.3900e-003	0.0459	0.0110	6.8000e-003	0.0178	0.0000	125.4571	125.4571	9.5000e-004	0.0000	125.4770	
Worker	0.0404	0.0535	0.5061	1.2800e-003	0.1043	7.8000e-004	0.1050	0.0277	7.2000e-004	0.0284	0.0000	93.3967	93.3967	4.7500e-003	0.0000	93.4964	
Total	0.1020	0.5701	1.2710	2.6800e-003	0.1427	8.1700e-003	0.1509	0.0387	7.5200e-003	0.0462	0.0000	218.8539	218.8539	5.7000e-003	0.0000	218.9734	

3.5 Building Construction - 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					
Off-Road	0.2753	2.5084	1.9663	3.4900e-003		0.1457	0.1457		0.1422	0.1422	0.0000	304.9386	304.9386	0.0420	0.0000	305.8208	
Total	0.2753	2.5084	1.9663	3.4900e-003		0.1457	0.1457		0.1422	0.1422	0.0000	304.9386	304.9386	0.0420	0.0000	305.8208	

3.5 Building Construction - 2018

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	0.1161	0.9365	1.4681	2.8100e-003	0.0773	0.0138	0.0910	0.0221	0.0127	0.0348	0.0000	247.5522	247.5522	1.8600e-003	0.0000	247.5913	
Worker	0.0737	0.0981	0.9191	2.5700e-003	0.2093	1.5300e-003	0.2108	0.0556	1.4200e-003	0.0570	0.0000	180.4705	180.4705	8.8700e-003	0.0000	180.6567	
Total	0.1898	1.0345	2.3872	5.3800e-003	0.2866	0.0153	0.3019	0.0777	0.0141	0.0918	0.0000	428.0227	428.0227	0.0107	0.0000	428.2480	

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	0.2753	2.5084	1.9663	3.4900e-003		0.1457	0.1457		0.1422	0.1422	0.0000	304.9382	304.9382	0.0420	0.0000	305.8204	
Total	0.2753	2.5084	1.9663	3.4900e-003		0.1457	0.1457		0.1422	0.1422	0.0000	304.9382	304.9382	0.0420	0.0000	305.8204	

3.5 Building Construction - 2018

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	0.1161	0.9365	1.4681	2.8100e-003	0.0773	0.0138	0.0910	0.0221	0.0127	0.0348	0.0000	247.5522	247.5522	1.8600e-003	0.0000	247.5913	
Worker	0.0737	0.0981	0.9191	2.5700e-003	0.2093	1.5300e-003	0.2108	0.0556	1.4200e-003	0.0570	0.0000	180.4705	180.4705	8.8700e-003	0.0000	180.6567	
Total	0.1898	1.0345	2.3872	5.3800e-003	0.2866	0.0153	0.3019	0.0777	0.0141	0.0918	0.0000	428.0227	428.0227	0.0107	0.0000	428.2480	

3.5 Building Construction - 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					
Off-Road	0.0596	0.5593	0.4741	8.6000e-004		0.0308	0.0308		0.0301	0.0301	0.0000	74.4436	74.4436	9.8200e-003	0.0000	74.6498	
Total	0.0596	0.5593	0.4741	8.6000e-004		0.0308	0.0308		0.0301	0.0301	0.0000	74.4436	74.4436	9.8200e-003	0.0000	74.6498	

3.5 Building Construction - 2019

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	0.0266	0.2090	0.3436	6.9000e-004	0.0189	3.1400e-003	0.0221	5.4200e-003	2.8900e-003	8.3100e-003	0.0000	59.6565	59.6565	4.5000e-004	0.0000	59.6659	
Worker	0.0168	0.0222	0.2073	6.3000e-004	0.0513	3.7000e-004	0.0517	0.0136	3.5000e-004	0.0140	0.0000	42.6524	42.6524	2.0500e-003	0.0000	42.6953	
Total	0.0434	0.2312	0.5509	1.3200e-003	0.0703	3.5100e-003	0.0738	0.0191	3.2400e-003	0.0223	0.0000	102.3089	102.3089	2.5000e-003	0.0000	102.3612	

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	0.0596	0.5593	0.4741	8.6000e-004		0.0308	0.0308		0.0301	0.0301	0.0000	74.4435	74.4435	9.8200e-003	0.0000	74.6498	
Total	0.0596	0.5593	0.4741	8.6000e-004		0.0308	0.0308		0.0301	0.0301	0.0000	74.4435	74.4435	9.8200e-003	0.0000	74.6498	

3.5 Building Construction - 2019

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	0.0266	0.2090	0.3436	6.9000e-004	0.0189	3.1400e-003	0.0221	5.4200e-003	2.8900e-003	8.3100e-003	0.0000	59.6565	59.6565	4.5000e-004	0.0000	59.6659	
Worker	0.0168	0.0222	0.2073	6.3000e-004	0.0513	3.7000e-004	0.0517	0.0136	3.5000e-004	0.0140	0.0000	42.6524	42.6524	2.0500e-003	0.0000	42.6953	
Total	0.0434	0.2312	0.5509	1.3200e-003	0.0703	3.5100e-003	0.0738	0.0191	3.2400e-003	0.0223	0.0000	102.3089	102.3089	2.5000e-003	0.0000	102.3612	

3.6 Paving - 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					
Off-Road	2.0600e-003	0.0182	0.0140	2.0000e-005		1.4500e-003	1.4500e-003		1.3400e-003	1.3400e-003	0.0000	1.6124	1.6124	5.0000e-004	0.0000	1.6230
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.0600e-003	0.0182	0.0140	2.0000e-005		1.4500e-003	1.4500e-003		1.3400e-003	1.3400e-003	0.0000	1.6124	1.6124	5.0000e-004	0.0000	1.6230

3.6 Paving - 2018

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-004	1.3000e-004	1.2100e-003	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2386	0.2386	1.0000e-005	0.0000	0.2388	
Total	1.0000e-004	1.3000e-004	1.2100e-003	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2386	0.2386	1.0000e-005	0.0000	0.2388	

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	2.0600e-003	0.0182	0.0140	2.0000e-005		1.4500e-003	1.4500e-003		1.3400e-003	1.3400e-003	0.0000	1.6124	1.6124	5.0000e-004	0.0000	1.6230	
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	2.0600e-003	0.0182	0.0140	2.0000e-005		1.4500e-003	1.4500e-003		1.3400e-003	1.3400e-003	0.0000	1.6124	1.6124	5.0000e-004	0.0000	1.6230	

3.6 Paving - 2018

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-004	1.3000e-004	1.2100e-003	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2386	0.2386	1.0000e-005	0.0000	0.2388	
Total	1.0000e-004	1.3000e-004	1.2100e-003	0.0000	2.8000e-004	0.0000	2.8000e-004	7.0000e-005	0.0000	8.0000e-005	0.0000	0.2386	0.2386	1.0000e-005	0.0000	0.2388	

3.7 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	3.2496						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	9.8500e-003	0.0662	0.0612	1.0000e-004			4.9700e-003	4.9700e-003		4.9700e-003	4.9700e-003	0.0000	8.4258	8.4258	8.0000e-004	0.0000	8.4426
Total	3.2594	0.0662	0.0612	1.0000e-004			4.9700e-003	4.9700e-003		4.9700e-003	4.9700e-003	0.0000	8.4258	8.4258	8.0000e-004	0.0000	8.4426

3.7 Architectural Coating - 2018

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	3.7300e-003	4.9600e-003	0.0465	1.3000e-004	0.0106	8.0000e-005	0.0107	2.8100e-003	7.0000e-005	2.8800e-003	0.0000	9.1272	9.1272	4.5000e-004	0.0000	9.1367	
Total	3.7300e-003	4.9600e-003	0.0465	1.3000e-004	0.0106	8.0000e-005	0.0107	2.8100e-003	7.0000e-005	2.8800e-003	0.0000	9.1272	9.1272	4.5000e-004	0.0000	9.1367	

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	3.2496						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	9.8500e-003	0.0662	0.0612	1.0000e-004			4.9700e-003	4.9700e-003		4.9700e-003	4.9700e-003	0.0000	8.4257	8.4257	8.0000e-004	0.0000	8.4426
Total	3.2594	0.0662	0.0612	1.0000e-004			4.9700e-003	4.9700e-003		4.9700e-003	4.9700e-003	0.0000	8.4257	8.4257	8.0000e-004	0.0000	8.4426

3.7 Architectural Coating - 2018

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	3.7300e-003	4.9600e-003	0.0465	1.3000e-004	0.0106	8.0000e-005	0.0107	2.8100e-003	7.0000e-005	2.8800e-003	0.0000	9.1272	9.1272	4.5000e-004	0.0000	9.1367	
Total	3.7300e-003	4.9600e-003	0.0465	1.3000e-004	0.0106	8.0000e-005	0.0107	2.8100e-003	7.0000e-005	2.8800e-003	0.0000	9.1272	9.1272	4.5000e-004	0.0000	9.1367	

3.7 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	3.1511						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	8.5300e-003	0.0587	0.0589	1.0000e-004			4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	8.1704	8.1704	6.9000e-004	0.0000	8.1849
Total	3.1596	0.0587	0.0589	1.0000e-004			4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	8.1704	8.1704	6.9000e-004	0.0000	8.1849

3.7 Architectural Coating - 2019

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	3.3500e-003	4.4400e-003	0.0415	1.3000e-004	0.0103	7.0000e-005	0.0103	2.7300e-003	7.0000e-005	2.8000e-003	0.0000	8.5305	8.5305	4.1000e-004	0.0000	8.5391	
Total	3.3500e-003	4.4400e-003	0.0415	1.3000e-004	0.0103	7.0000e-005	0.0103	2.7300e-003	7.0000e-005	2.8000e-003	0.0000	8.5305	8.5305	4.1000e-004	0.0000	8.5391	

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	3.1511						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	8.5300e-003	0.0587	0.0589	1.0000e-004			4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	8.1704	8.1704	6.9000e-004	0.0000	8.1849
Total	3.1596	0.0587	0.0589	1.0000e-004			4.1200e-003	4.1200e-003		4.1200e-003	4.1200e-003	0.0000	8.1704	8.1704	6.9000e-004	0.0000	8.1849

3.7 Architectural Coating - 2019

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	3.3500e-003	4.4400e-003	0.0415	1.3000e-004	0.0103	7.0000e-005	0.0103	2.7300e-003	7.0000e-005	2.8000e-003	0.0000	8.5305	8.5305	4.1000e-004	0.0000	8.5391	
Total	3.3500e-003	4.4400e-003	0.0415	1.3000e-004	0.0103	7.0000e-005	0.0103	2.7300e-003	7.0000e-005	2.8000e-003	0.0000	8.5305	8.5305	4.1000e-004	0.0000	8.5391	

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	9.0426	11.4834	65.4274	0.1180	7.6750	0.1491	7.8241	2.0527	0.1376	2.1903	0.0000	8,175.795 6	8,175.795 6	0.3565	0.0000	8,183.281 2
Unmitigated	9.0426	11.4834	65.4274	0.1180	7.6750	0.1491	7.8241	2.0527	0.1376	2.1903	0.0000	8,175.795 6	8,175.795 6	0.3565	0.0000	8,183.281 2

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market (24 Hour)	18,449.75	21,577.50	18961.25	14,446,844	14,446,844
Enclosed Parking with Elevator	0.00	0.00	0.00		
General Office Building	3,293.60	708.98	293.16	5,964,183	5,964,183
Total	21,743.35	22,286.48	19,254.41	20,411,027	20,411,027

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Convenience Market (24 Hour)	9.50	7.30	7.30	0.90	80.10	19.00	24	15	61
Enclosed Parking with Elevator	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0
General Office Building	9.50	7.30	7.30	33.00	48.00	19.00	77	19	4

LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
0.513300	0.073549	0.191092	0.130830	0.036094	0.005140	0.012550	0.022916	0.001871	0.002062	0.006564	0.000586	0.003446

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	2,082.912	2,082.912	0.0838	0.0174	2,090.049	
Electricity Unmitigated							0.0000	0.0000		0.0000	0.0000	2,082.912	2,082.912	0.0838	0.0174	2,090.049	
NaturalGas Mitigated	0.0342	0.3112	0.2614	1.8700e-003			0.0237	0.0237		0.0237	0.0237	0.0000	338.7690	338.7690	6.4900e-003	6.2100e-003	340.8306
NaturalGas Unmitigated	0.0342	0.3112	0.2614	1.8700e-003			0.0237	0.0237		0.0237	0.0237	0.0000	338.7690	338.7690	6.4900e-003	6.2100e-003	340.8306

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					
Enclosed Parking with Elevator	0	0.0000	0.0000	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	6.29104e+006	0.0339	0.3084	0.2590	1.8500e-003		0.0234	0.0234		0.0234	0.0234	0.0000	335.7139	335.7139	6.4300e-003	6.1500e-003	337.7570	
Convenience Market (24 Hour)	57250	3.1000e-004	2.8100e-003	2.3600e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	3.0551	3.0551	6.0000e-005	6.0000e-005	3.0737	
Total		0.0342	0.3112	0.2614	1.8700e-003		0.0237	0.0237		0.0237	0.0237	0.0000	338.7690	338.7690	6.4900e-003	6.2100e-003	340.8306	

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					
General Office Building	6.29104e+006	0.0339	0.3084	0.2590	1.8500e-003		0.0234	0.0234		0.0234	0.0234	0.0000	335.7139	335.7139	6.4300e-003	6.1500e-003	337.7570	
Convenience Market (24 Hour)	57250	3.1000e-004	2.8100e-003	2.3600e-003	2.0000e-005		2.1000e-004	2.1000e-004		2.1000e-004	2.1000e-004	0.0000	3.0551	3.0551	6.0000e-005	6.0000e-005	3.0737	
Enclosed Parking with Elevator	0	0.0000	0.0000	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		0.0342	0.3112	0.2614	1.8700e-003		0.0237	0.0237		0.0237	0.0237	0.0000	338.7690	338.7690	6.4900e-003	6.2100e-003	340.8306	

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market (24 Hour)	351000	114.7099	4.6200e-003	9.6000e-004	115.1030
Enclosed Parking with Elevator	1.53829e+006	502.7268	0.0202	4.1900e-003	504.4496
General Office Building	4.4842e+006	1,465.4754	0.0590	0.01223	1,470.4973
Total		2,082.9121	0.0838	0.0174	2,090.0499

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market (24 Hour)	351000	114.7099	4.6200e-003	9.6000e-004	115.1030
Enclosed Parking with Elevator	1.53829e+006	502.7268	0.0202	4.1900e-003	504.4496
General Office Building	4.4842e+006	1,465.475	0.0590	0.0122	1,470.497
Total		2,082.912	0.0838	0.0174	2,090.049

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	2.7979	5.0000e-005	5.1100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8700e-003	9.8700e-003	3.0000e-005	0.0000	0.0104
Unmitigated	2.7979	5.0000e-005	5.1100e-003	0.0000		2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8700e-003	9.8700e-003	3.0000e-005	0.0000	0.0104

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	0.6401						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1573						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.8000e-004	5.0000e-005	5.1100e-003	0.0000			2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8700e-003	9.8700e-003	3.0000e-005	0.0000	0.0104
Total	2.7979	5.0000e-005	5.1100e-003	0.0000			2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8700e-003	9.8700e-003	3.0000e-005	0.0000	0.0104

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	0.6401						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	2.1573						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	4.8000e-004	5.0000e-005	5.1100e-003	0.0000			2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8700e-003	9.8700e-003	3.0000e-005	0.0000	0.0104
Total	2.7979	5.0000e-005	5.1100e-003	0.0000			2.0000e-005	2.0000e-005		2.0000e-005	2.0000e-005	0.0000	9.8700e-003	9.8700e-003	3.0000e-005	0.0000	0.0104

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	374.0312	1.8069	0.0452	425.9985
Unmitigated	374.0312	1.8072	0.0453	426.0263

7.2 Water by Land Use

Unmitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market (24 Hour)	1.85181 / 1.13498	12.5886	0.0608	1.5200e- 003	14.3386
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	53.1691 / 32.5875	361.4426	1.7464	0.0438	411.6878
Total		374.0312	1.8072	0.0453	426.0263

7.2 Water by Land Use

Mitigated

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market (24 Hour)	1.85181 / 1.13498	12.5886	0.0608	1.5200e- 003	14.3376
Enclosed Parking with Elevator	0 / 0	0.0000	0.0000	0.0000	0.0000
General Office Building	53.1691 / 32.5875	361.4426	1.7461	0.0437	411.6609
Total		374.0312	1.8069	0.0452	425.9985

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	71.7248	4.2388	0.0000	160.7400
Unmitigated	71.7248	4.2388	0.0000	160.7400

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market (24 Hour)	75.13	15.2507	0.9013	0.0000	34.1778
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	278.21	56.4741	3.3375	0.0000	126.5621
Total		71.7248	4.2388	0.0000	160.7400

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market (24 Hour)	75.13	15.2507	0.9013	0.0000	34.1778
Enclosed Parking with Elevator	0	0.0000	0.0000	0.0000	0.0000
General Office Building	278.21	56.4741	3.3375	0.0000	126.5621
Total		71.7248	4.2388	0.0000	160.7400

9.0 Operational Offroad

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