



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: All Peoples Church

Property Address: 5551 College Avenue, San Diego, CA

Applicant Name/Co.: Light on a Hill, LLC

Contact Phone: 619-286-3251 Contact Email: Kendall@allpeopleschurch.org

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

Consultant Name: Kim Baranek Contact Phone: 858-922-8604

Company Name: Baranek Consulting Group, Inc. Contact Email: kim@baranekconsulting.com

Project Information

1. What is the size of the project (acres)? 5.99

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): Institutional (Church)

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

4. Provide a brief description of the project proposed:

Development of an approximately 900-seat church with accessory Sunday School classrooms, a multi-purpose room, and parking. See attached discussion for details.

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
A. Is the proposed project consistent with the existing General Plan and Community Plan land use and zoning designations? ³ <u>OR</u> ,		
B. 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, would the proposed amendment result in an increased density within a Transit Priority Area (TPA) ⁴ and implement CAP Strategy 3 actions, as determined in Step 3 to the satisfaction of the Development Services Department?; <u>OR</u> ,	<input type="checkbox"/>	<input checked="" type="checkbox"/>
C. 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?		

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

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.

See attached discussion.

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.

⁴ This category applies to all projects that answered in the affirmative to question 3 on the previous page: Is the project or a portion of the project located in a transit priority area.

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.⁵ 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			
<p>1. <i>Cool/Green Roofs.</i></p> <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)?; <u>OR</u> • Would 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?; <u>OR</u> • Would 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> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>See attached discussion.</p> </div>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

⁵ 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 or other permits that do not result in the expansion or enlargement of a building (e.g., decks, garages, etc.), 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.

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:

- 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; and
- Clothes washers: water factor of 6 gallons per cubic feet of drum capacity?

Nonresidential buildings:

- 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); and
- Appliances 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.

See attached discussion.



Strategy 3: Bicycling, Walking, Transit & Land Use

3. *Electric Vehicle Charging*

- Multiple-family projects of 17 dwelling units or less: Would 3% of the total parking spaces required, or a minimum of one space, whichever is greater, 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 17 dwelling units: Of the total required listed cabinets, boxes or enclosures, would 50% have the necessary electric vehicle supply equipment installed to provide active electric vehicle charging stations ready for use by residents?
- Non-residential projects: Of the total required listed cabinets, boxes or enclosures, would 50% have the necessary electric vehicle supply equipment installed to provide active electric vehicle charging stations ready for use?

Check "N/A" only if the project is a single-family project or would not require the provision of listed cabinets, boxes, or enclosures connected to a conduit linking the parking spaces with electrical service, e.g., projects requiring fewer than 10 parking spaces.

See attached discussion.

Strategy 3: Bicycling, Walking, Transit & Land Use

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

4. *Bicycle Parking Spaces*

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

Check "N/A" only if the project is a residential project.

See attached discussion.

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

5. *Shower facilities*

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?

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

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).

See attached discussion.

6. *Designated Parking Spaces*

If the project includes a nonresidential 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?

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

This measure does not cover electric vehicles. See Question 4 for electric vehicle parking requirements.

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.

Check "N/A" only if the project is a residential project, or if it does not include nonresidential use in a TPA.

See attached discussion.

7. *Transportation Demand Management Program*

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:

At least one of the following components:

- 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

And at least three of the following components:

- 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
- 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?

Check "N/A" only if the project is a residential project or if it would not accommodate over 50 tenant-occupants (employees).



See attached discussion.

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 B. 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 is nevertheless consistent with the assumptions in the CAP because it would implement CAP Strategy 3 actions. In general, a project that would result in a reduction in density inside a TPA would not be consistent with Strategy 3. 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?

CAP CONSISTENCY CHECKLIST SUPPORTING DOCUMENTATION – ALL PEOPLES CHURCH

Step 1: Land Use Consistency

Planned Land Use

The project site is designated in the Navajo Community Plan for Residential land use and is zoned Residential (RS-1-7). The designation is for Very Low/Low Residential use at a density range of 0 to 9 dwelling units (DUs) per acre. The RS-1-7 zone allows for a minimum 5,000 square foot (SF) lots, resulting in the maximum construction of up to 52 DUs on the 5.99-acre site. The Navajo Community Plan does not provide a separate land use designation for churches or places of religious assembly. Instead these types of community facilities are identified as “Church” on the Other Community Facilities Figure 24 of the Community Plan. Other community facilities, such as churches, fire stations, hospitals, floodplain boundaries and SDG&E easements, are noted separately from parks and schools on figures in the Community Plan.

Proposed Land Use

The proposed Community Plan Amendment (CPA) would retain the Residential land use designation and identify the site for Institutional (Church) use on Figure 24 of the Community Plan similar to other religious assembly facilities in the community. No rezone is proposed because churches are a permitted use in the RS-1-7 zone. With this CPA in place, the project would involve the development of a 900-seat, 54,476 SF church with accessory uses (i.e., Sunday school classrooms, offices, and a multi-purpose room/gym), a 71,010 SF parking structure and surface parking, site improvements, and off-site improvements to College Avenue and utility infrastructure.

Comparison of Estimated Proposed Project Emissions with Planned Land Use/Zoning Emissions

To evaluate whether the All Peoples Church project would result in equivalent or less GHG emissions than assumed in the CAP, a quantification of estimated project emissions was conducted. The GHG emissions under the previously planned Residential land use were compared to the planned Institutional use. To calculate GHG emissions under both scenarios, the CalEEMod v2020.4.0 model was run. The 2019 Building Efficiency Standards, under Title 24, are now incorporated into this version of CalEEMod, released by CAPCOA in 2021. For the purposes of this analysis, state and federal GHG reduction measures were included in the calculations consistent with the regulatory assumptions in the CAP, including the following:

- The 2019 Building Efficiency Standards, under Title 24, became effective on January 1, 2020. Single family homes built under the 2019 Energy Standards will use about 7% less energy, due to energy efficiency measures, as compared to the 2016 Energy Standards. Additionally, homes built with rooftop solar electricity

generation under the 2019 Energy Standards will use an estimated 53% less energy than those under the 2016 Energy Standards.

- The current version of CalEEMod has incorporated the 2019 Title 24 Energy Standards. Since buildings in each scenario will meet the 2019 Title 24 Energy Efficiency Standards, no additional mitigation was applied in the model.
- The project would include low-flow plumbing fixtures, including low-flow toilets, low-flow sinks, and low-flow showers in accordance with the requirements of Title 24 as of 2019. Water efficient irrigation systems have been evaluated as mitigation strategies for each scenario.
- Vehicles would meet the Pavley I, Low Carbon Fuel Standard, and Advanced Clean Cars (i.e., electric vehicle) standards. EMFAC2017 model emission factors are incorporated into the latest version of CalEEMod and the option for applying an adjustment to the factors for gasoline light duty vehicles, to account for the SAFE Vehicle Rule, was applied. The default emission factors within the CalEEMod model were not otherwise adjusted for this comparison.
- The project would meet the City's goal of 50% solid waste diversion through recycling and waste reduction programs. This assumption is conservative in comparison with the CAP because the City has adopted a goal of 75% solid waste diversion by 2020 in its CAP.

Planned Land Use Designation and Zone Emissions

Under the existing land use designations in the Navajo Community Plan and RS-1-7 zone, the project site can build up to 52 single family residences (assuming a 5,000 SF lot minimum over the 5.99 acre site). The calculated GHG emissions for the Existing Land Use Designation and Zoning for the project site are presented in Table 1. The existing land use designation's annual VMT is 1,384,85 miles, according to the CalEEMod output.

Based on the CEQA Significance Thresholds for GHG Emissions defined by the City of San Diego Development Services Department (March 2013), construction emissions should be amortized over the expected (long-term) operational life of a project, which can be conservatively estimated at 20 years.

Table 1 ESTIMATED OPERATIONAL GREENHOUSE GAS EMISSIONS WITH MITIGATION EXISTING LAND USE DESIGNATION AND ZONING – 52 SINGLE FAMILY HOMES				
Emission Source	Annual Emissions (Metric tons/year)			
	CO₂	CH₄	N₂O	CO₂e
Mitigated Operational Emissions				
Area Sources	76.87	0.05	0.004	79.38
Energy	159.67	0.007	0.002	160.40
Mobile Source	481.81	0.03	0.02	489.34
Solid Waste	6.20	0.37	0.00	15.36
Water Use	14.96	0.09	0.002	17.84
Mitigated Construction Emissions (Amortized Over 20 Years)				
Construction Sources	13.52	0.003	0.00	13.62
Total	753.03	0.55	0.03	
TOTAL CO₂ Equivalent Emissions				775.94

Source: CalEEMod run by BlueScape Environmental (2021).

Proposed Land Use Designation and Zone Emissions

Under the proposed project, the project would build a 900-seat, 54,476 SF religious assembly place. The CalEEMod calculates the VMT for the project to be 925,550 miles annually. The calculated GHG emissions for the project are presented in Table 2.

Table 2 ESTIMATED OPERATIONAL GREENHOUSE GAS EMISSIONS WITH MITIGATION PROPOSED LAND USE DESIGNATION – ALL PEOPLES CHURCH PROJECT				
Emission Source	Annual Emissions (Metric tons/year)			
	CO₂	CH₄	N₂O	CO₂e
Mitigated Operational Emissions				
Area Sources	0.002	0.00	0.00	0.002
Energy	173.07	0.01	0.002	173.79
Mobile Source	331.47	0.03	0.02	337.91
Solid Waste	31.52	1.86	0.00	78.09
Water Use	11.59	0.05	0.001	13.06
Mitigated Construction Emissions (Amortized Over 20 Years)				
Construction Sources	16.12	0.003	0.00	16.30
Total	563.77	1.95	0.02	
TOTAL CO₂ Equivalent Emissions				619.15

Source: CalEEMod run by BlueScape Environmental (2021).

Step 1 Conclusion

As demonstrated in this analysis through a comparison of Tables 1 and 2, the All Peoples Church project would result in annual operational GHG emissions that are lower than levels that would occur under the planned land use designation/zoning assumed in the CAP by 156.79 metric tons per year of CO₂e and the site's annual VMT

would be reduced by approximately 459,305 miles. Therefore, the project would result in equivalent or less GHG emissions than assumed in the CAP under existing land use designations and meet the requirements of Step 1 of the CAP Consistency Checklist. Model output for both scenarios is provided as an appendix to the CAP Consistency Checklist.

Step 2: CAP Strategies Consistency

Strategy 1: Energy & Water Efficient Buildings

- 1) *Cool/Green Roofs* – The project architecture details have not been determined to date and roofing materials have not been identified. However, the project will include roofing materials with a minimum 3-year aged solar reflection index equal to or greater than the values specified in the voluntary measures under the California Green Building Standards Code.
- 2) *Plumbing Fixtures and Fittings* – The project will include low-flow fixtures as required under current Title 24 buildings codes. With respect to plumbing fixtures or fitting provided as part of the project, the fixtures/appliances will be consistent with the voluntary measures in the CAP Checklist.

Strategy 3: Bicycling, Walking, Transit & Land Use

- 1) *Electric Vehicle Charging* – The project would meet the requirements of this strategy by providing electric vehicle charging stations on site at levels required by the CAP Checklist. The project will provide 22 EV charging stations equating to over 5 percent of the 356 parking spaces.
- 2) *Bicycle Parking Spaces* – The project will construct 3 long-term bicycle parking spaces equating to more than 5 percent of the office parking spaces and 18 short-term bicycle parking spaces equating to more than 5 percent of the visitor spaces.
- 3) *Shower Facilities* – The project will include 1 shower/changing facility in accordance with the California Green Building Standards Code, as specified in the CAP Consistency Checklist.
- 4) *Designated Parking Spaces* – The project is a minor employment use in a Transit Priority Area (TPA). The project's parking facilities will include parking spaces designated for a combination of low-emitting, fuel-efficient, and carpool/vanpool vehicles in accordance with the CAP Consistency Checklist.
- 5) *Transportation Demand Management Program* – These CAP strategies are not applicable to the proposed project because employees would be less than 50 (i.e., 25-30 employees/staff).

Appendix to CAP Consistency Checklist

CalEEMod Runs – All Peoples Church

Navajo Community Plan Residential Units - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Navajo Community Plan Residential Units

San Diego County APCD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	52.00	Dwelling Unit	5.99	93,600.00	149

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage is based on actual property area.

Vehicle Trips -

Construction Off-road Equipment Mitigation -

Energy Mitigation - Incorporates 2019 Title 24 Building Standards

Water Mitigation - Low flow bathroom faucet, kitchen faucet, toilet, and shower. Water efficient irrigation system.

Waste Mitigation - 50% Waste Reduction for recycling/composting services

Grading - Total acres graded: 5.99

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Fleet Mix -

Navajo Community Plan Residential Units - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Energy Use -

Table Name	Column Name	Default Value	New Value
tblGrading	AcresOfGrading	20.00	5.99
tblGrading	AcresOfGrading	15.00	0.00
tblLandUse	LotAcreage	16.88	5.99

2.0 Emissions Summary

Navajo Community Plan Residential Units - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021													128.3116	0.0343	5.1000e-004	129.3202
2022													270.3312	0.0607	2.1300e-003	272.4834
Maximum													270.3312	0.0607	2.1300e-003	272.4834

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021													128.3115	0.0343	5.1000e-004	129.3201
2022													270.3309	0.0607	2.1300e-003	272.4831
Maximum													270.3309	0.0607	2.1300e-003	272.4831

Navajo Community Plan Residential Units - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area													76.8713	0.0502	4.2200e-003	79.3848
Energy													159.6680	7.2500e-003	1.8400e-003	160.3966
Mobile													481.8114	0.0348	0.0223	489.3366
Waste													12.4007	0.7329	0.0000	30.7223
Water													17.6923	0.1114	2.7300e-003	21.2911
Total													748.4437	0.9365	0.0311	781.1313

Navajo Community Plan Residential Units - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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													76.8713	0.0502	4.2200e-003	79.3848
Energy													159.6680	7.2500e-003	1.8400e-003	160.3966
Mobile													481.8114	0.0348	0.0223	489.3366
Waste													6.2004	0.3664	0.0000	15.3611
Water													14.9617	0.0892	2.1900e-003	17.8438
Total													739.5128	0.5478	0.0306	762.3229

	ROG	NOx	CO	SO2	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	1.19	41.50	1.73	2.41

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	9/1/2021	9/28/2021	5	20	
2	Site Preparation	Site Preparation	9/29/2021	10/12/2021	5	10	
3	Grading	Grading	10/13/2021	11/9/2021	5	20	

Navajo Community Plan Residential Units - San Diego County APCD Air District, Annual

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4	Building Construction	Building Construction	11/10/2021	9/27/2022	5	230
5	Paving	Paving	9/28/2022	10/25/2022	5	20
6	Architectural Coating	Architectural Coating	10/26/2022	11/22/2022	5	20

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 5.99

Acres of Paving: 0

Residential Indoor: 189,540; Residential Outdoor: 63,180; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	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	9	19.00	6.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	4.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road													34.0008	9.5700e-003	0.0000	34.2400
Total													34.0008	9.5700e-003	0.0000	34.2400

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3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													1.0159	3.0000e-005	3.0000e-005	1.0259
Total													1.0159	3.0000e-005	3.0000e-005	1.0259

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													34.0007	9.5700e-003	0.0000	34.2400
Total													34.0007	9.5700e-003	0.0000	34.2400

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3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													1.0159	3.0000e-005	3.0000e-005	1.0259
Total													1.0159	3.0000e-005	3.0000e-005	1.0259

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust													0.0000	0.0000	0.0000	0.0000
Off-Road													16.7179	5.4100e-003	0.0000	16.8530
Total													16.7179	5.4100e-003	0.0000	16.8530

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3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.6095	2.0000e-005	2.0000e-005	0.6156
Total													0.6095	2.0000e-005	2.0000e-005	0.6156

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust													0.0000	0.0000	0.0000	0.0000
Off-Road													16.7178	5.4100e-003	0.0000	16.8530
Total													16.7178	5.4100e-003	0.0000	16.8530

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3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.6095	2.0000e-005	2.0000e-005	0.6156
Total													0.6095	2.0000e-005	2.0000e-005	0.6156

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust													0.0000	0.0000	0.0000	0.0000
Off-Road													26.0537	8.4300e-003	0.0000	26.2644
Total													26.0537	8.4300e-003	0.0000	26.2644

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3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													1.0159	3.0000e-005	3.0000e-005	1.0259
Total													1.0159	3.0000e-005	3.0000e-005	1.0259

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust													0.0000	0.0000	0.0000	0.0000
Off-Road													26.0537	8.4300e-003	0.0000	26.2643
Total													26.0537	8.4300e-003	0.0000	26.2643

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3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													1.0159	3.0000e-005	3.0000e-005	1.0259
Total													1.0159	3.0000e-005	3.0000e-005	1.0259

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road													44.0111	0.0106	0.0000	44.2765
Total													44.0111	0.0106	0.0000	44.2765

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3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													2.4419	8.0000e-005	3.6000e-004	2.5497
Worker													2.4449	8.0000e-005	7.0000e-005	2.4691
Total													4.8869	1.6000e-004	4.3000e-004	5.0188

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													44.0110	0.0106	0.0000	44.2765
Total													44.0110	0.0106	0.0000	44.2765

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													2.4419	8.0000e-005	3.6000e-004	2.5497
Worker													2.4449	8.0000e-005	7.0000e-005	2.4691
Total													4.8869	1.6000e-004	4.3000e-004	5.0188

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road													222.4562	0.0533	0.0000	223.7886
Total													222.4562	0.0533	0.0000	223.7886

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													12.0119	3.6000e-004	1.7400e-003	12.5410
Worker													12.0293	3.8000e-004	3.5000e-004	12.1422
Total													24.0411	7.4000e-004	2.0900e-003	24.6831

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													222.4560	0.0533	0.0000	223.7883
Total													222.4560	0.0533	0.0000	223.7883

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3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													12.0119	3.6000e-004	1.7400e-003	12.5410
Worker													12.0293	3.8000e-004	3.5000e-004	12.1422
Total													24.0411	7.4000e-004	2.0900e-003	24.6831

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road													20.0276	6.4800e-003	0.0000	20.1895
Paving													0.0000	0.0000	0.0000	0.0000
Total													20.0276	6.4800e-003	0.0000	20.1895

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3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.9893	3.0000e-005	3.0000e-005	0.9985
Total													0.9893	3.0000e-005	3.0000e-005	0.9985

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													20.0275	6.4800e-003	0.0000	20.1895
Paving													0.0000	0.0000	0.0000	0.0000
Total													20.0275	6.4800e-003	0.0000	20.1895

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3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.9893	3.0000e-005	3.0000e-005	0.9985
Total													0.9893	3.0000e-005	3.0000e-005	0.9985

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating													0.0000	0.0000	0.0000	0.0000
Off-Road													2.5533	1.7000e-004	0.0000	2.5574
Total													2.5533	1.7000e-004	0.0000	2.5574

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3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.2638	1.0000e-005	1.0000e-005	0.2663
Total													0.2638	1.0000e-005	1.0000e-005	0.2663

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating													0.0000	0.0000	0.0000	0.0000
Off-Road													2.5533	1.7000e-004	0.0000	2.5574
Total													2.5533	1.7000e-004	0.0000	2.5574

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3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.2638	1.0000e-005	1.0000e-005	0.2663
Total													0.2638	1.0000e-005	1.0000e-005	0.2663

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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													481.8114	0.0348	0.0223	489.3366
Unmitigated													481.8114	0.0348	0.0223	489.3366

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	490.88	496.08	444.60	1,384,855	1,384,855
Total	490.88	496.08	444.60	1,384,855	1,384,855

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
Single Family Housing	10.80	7.30	7.50	41.60	18.80	39.60	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388

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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													99.7812	6.1000e-003	7.4000e-004	100.1539
Electricity Unmitigated													99.7812	6.1000e-003	7.4000e-004	100.1539
NaturalGas Mitigated													59.8868	1.1500e-003	1.1000e-003	60.2427
NaturalGas Unmitigated													59.8868	1.1500e-003	1.1000e-003	60.2427

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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					
Single Family Housing	1.12224e+006													59.8868	1.1500e-003	1.1000e-003	60.2427
Total														59.8868	1.1500e-003	1.1000e-003	60.2427

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					
Single Family Housing	1.12224e+006													59.8868	1.1500e-003	1.1000e-003	60.2427
Total														59.8868	1.1500e-003	1.1000e-003	60.2427

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	407385	99.7812	6.1000e-003	7.4000e-004	100.1539
Total		99.7812	6.1000e-003	7.4000e-004	100.1539

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	407385	99.7812	6.1000e-003	7.4000e-004	100.1539
Total		99.7812	6.1000e-003	7.4000e-004	100.1539

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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													76.8713	0.0502	4.2200e-003	79.3848
Unmitigated													76.8713	0.0502	4.2200e-003	79.3848

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating													0.0000	0.0000	0.0000	0.0000
Consumer Products													0.0000	0.0000	0.0000	0.0000
Hearth													76.2406	0.0496	4.2200e-003	78.7389
Landscaping													0.6307	6.1000e-004	0.0000	0.6459
Total													76.8713	0.0502	4.2200e-003	79.3848

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating													0.0000	0.0000	0.0000	0.0000
Consumer Products													0.0000	0.0000	0.0000	0.0000
Hearth													76.2406	0.0496	4.2200e-003	78.7389
Landscaping													0.6307	6.1000e-004	0.0000	0.6459
Total													76.8713	0.0502	4.2200e-003	79.3848

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	14.9617	0.0892	2.1900e-003	17.8438
Unmitigated	17.6923	0.1114	2.7300e-003	21.2911

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	3.38801 / 2.13592	17.6923	0.1114	2.7300e-003	21.2911
Total		17.6923	0.1114	2.7300e-003	21.2911

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	2.71041 / 2.00563	14.9617	0.0892	2.1900e-003	17.8438
Total		14.9617	0.0892	2.1900e-003	17.8438

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	6.2004	0.3664	0.0000	15.3611
Unmitigated	12.4007	0.7329	0.0000	30.7223

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	61.09	12.4007	0.7329	0.0000	30.7223
Total		12.4007	0.7329	0.0000	30.7223

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	30.545	6.2004	0.3664	0.0000	15.3611
Total		6.2004	0.3664	0.0000	15.3611

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**All Peoples Church
San Diego County APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Place of Worship	54.48	1000sqft	4.36	54,476.00	0
Unenclosed Parking Structure	71.01	1000sqft	1.63	71,010.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.6	Precipitation Freq (Days)	40
Climate Zone	13			Operational Year	2022
Utility Company	San Diego Gas & Electric				
CO2 Intensity (lb/MWhr)	539.98	CH4 Intensity (lb/MWhr)	0.033	N2O Intensity (lb/MWhr)	0.004

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Total site area = 5.99 acres

Grading - Total acres graded: 5.99

Architectural Coating -

Vehicle Trips - Trip Rates based on ADT in TIA. Weekday: 8.90 x 54.476 = 485 and Sunday: 37.51 x 54.476 = 2043. Trip length based on TIA = avg 5.1 miles.

Area Coating -

Construction Off-road Equipment Mitigation -

Energy Mitigation - Incorporates 2019 Title 24 Building Standards

Water Mitigation - Low-flow bathroom faucet, kitchen faucet, toilet, and shower. Use water-efficient irrigation systems.

Waste Mitigation - 50% reduction in waste for recycling and composting services.

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Table Name	Column Name	Default Value	New Value
tblGrading	AcresOfGrading	20.00	5.99
tblGrading	AcresOfGrading	15.00	0.00
tblLandUse	LandUseSquareFeet	54,480.00	54,476.00
tblLandUse	LotAcreage	1.25	4.36
tblVehicleTrips	CC_TL	7.30	5.10
tblVehicleTrips	CNW_TL	7.30	5.10
tblVehicleTrips	CW_TL	9.50	5.10
tblVehicleTrips	ST_TR	5.99	8.90
tblVehicleTrips	SU_TR	27.63	37.51
tblVehicleTrips	WD_TR	6.95	8.90

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021													138.7916	0.0346	1.5300e-003	140.1129
2022													322.3486	0.0623	7.1300e-003	326.0299
Maximum													322.3486	0.0623	7.1300e-003	326.0299

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021													138.7915	0.0346	1.5300e-003	140.1127
2022													322.3483	0.0623	7.1300e-003	326.0296
Maximum													322.3483	0.0623	7.1300e-003	326.0296

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	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

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

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area													2.2400e-003	1.0000e-005	0.0000	2.3900e-003
Energy													173.0706	9.1700e-003	1.6500e-003	173.7910
Mobile													331.4685	0.0321	0.0189	337.9112
Waste													63.0368	3.7254	0.0000	156.1710
Water													13.2325	0.0563	1.4100e-003	15.0593
Total													580.8107	3.8229	0.0220	682.9350

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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													2.2400e-003	1.0000e-005	0.0000	2.3900e-003
Energy													173.0706	9.1700e-003	1.6500e-003	173.7910
Mobile													331.4685	0.0321	0.0189	337.9112
Waste													31.5184	1.8627	0.0000	78.0855
Water													11.5944	0.0451	1.1300e-003	13.0597
Total													547.6543	1.9490	0.0217	602.8499

	ROG	NOx	CO	SO2	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	5.71	49.02	1.27	11.73

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	9/1/2021	9/28/2021	5	20	
2	Site Preparation	Site Preparation	9/29/2021	10/12/2021	5	10	
3	Grading	Grading	10/13/2021	11/9/2021	5	20	

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4	Building Construction	Building Construction	11/10/2021	9/27/2022	5	230
5	Paving	Paving	9/28/2022	10/25/2022	5	20
6	Architectural Coating	Architectural Coating	10/26/2022	11/22/2022	5	20

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 5.99

Acres of Paving: 1.63

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 81,714; Non-Residential Outdoor: 27,238; Striped Parking Area: 4,261 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	1	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38

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Architectural Coating	Air Compressors	1	6.00	78	0.48
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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	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	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	9	53.00	21.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	11.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road													34.0008	9.5700e-003	0.0000	34.2400
Total													34.0008	9.5700e-003	0.0000	34.2400

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3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													1.0159	3.0000e-005	3.0000e-005	1.0259
Total													1.0159	3.0000e-005	3.0000e-005	1.0259

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													34.0007	9.5700e-003	0.0000	34.2400
Total													34.0007	9.5700e-003	0.0000	34.2400

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3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													1.0159	3.0000e-005	3.0000e-005	1.0259
Total													1.0159	3.0000e-005	3.0000e-005	1.0259

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust													0.0000	0.0000	0.0000	0.0000
Off-Road													16.7179	5.4100e-003	0.0000	16.8530
Total													16.7179	5.4100e-003	0.0000	16.8530

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3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.6095	2.0000e-005	2.0000e-005	0.6156
Total													0.6095	2.0000e-005	2.0000e-005	0.6156

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust													0.0000	0.0000	0.0000	0.0000
Off-Road													16.7178	5.4100e-003	0.0000	16.8530
Total													16.7178	5.4100e-003	0.0000	16.8530

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3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.6095	2.0000e-005	2.0000e-005	0.6156
Total													0.6095	2.0000e-005	2.0000e-005	0.6156

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust													0.0000	0.0000	0.0000	0.0000
Off-Road													26.0537	8.4300e-003	0.0000	26.2644
Total													26.0537	8.4300e-003	0.0000	26.2644

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3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													1.0159	3.0000e-005	3.0000e-005	1.0259
Total													1.0159	3.0000e-005	3.0000e-005	1.0259

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust													0.0000	0.0000	0.0000	0.0000
Off-Road													26.0537	8.4300e-003	0.0000	26.2643
Total													26.0537	8.4300e-003	0.0000	26.2643

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													1.0159	3.0000e-005	3.0000e-005	1.0259
Total													1.0159	3.0000e-005	3.0000e-005	1.0259

3.5 Building Construction - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road													44.0111	0.0106	0.0000	44.2765
Total													44.0111	0.0106	0.0000	44.2765

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Building Construction - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													8.5468	2.7000e-004	1.2400e-003	8.9240
Worker													6.8201	2.3000e-004	2.1000e-004	6.8875
Total													15.3668	5.0000e-004	1.4500e-003	15.8115

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													44.0110	0.0106	0.0000	44.2765
Total													44.0110	0.0106	0.0000	44.2765

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													8.5468	2.7000e-004	1.2400e-003	8.9240
Worker													6.8201	2.3000e-004	2.1000e-004	6.8875
Total													15.3668	5.0000e-004	1.4500e-003	15.8115

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road													222.4562	0.0533	0.0000	223.7886
Total													222.4562	0.0533	0.0000	223.7886

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													42.0415	1.2800e-003	6.1100e-003	43.8933
Worker													33.5553	1.0500e-003	9.7000e-004	33.8703
Total													75.5969	2.3300e-003	7.0800e-003	77.7636

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													222.4560	0.0533	0.0000	223.7883
Total													222.4560	0.0533	0.0000	223.7883

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3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													42.0415	1.2800e-003	6.1100e-003	43.8933
Worker													33.5553	1.0500e-003	9.7000e-004	33.8703
Total													75.5969	2.3300e-003	7.0800e-003	77.7636

3.6 Paving - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road													20.0276	6.4800e-003	0.0000	20.1895
Paving													0.0000	0.0000	0.0000	0.0000
Total													20.0276	6.4800e-003	0.0000	20.1895

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3.6 Paving - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.9893	3.0000e-005	3.0000e-005	0.9985
Total													0.9893	3.0000e-005	3.0000e-005	0.9985

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													20.0275	6.4800e-003	0.0000	20.1895
Paving													0.0000	0.0000	0.0000	0.0000
Total													20.0275	6.4800e-003	0.0000	20.1895

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3.6 Paving - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.9893	3.0000e-005	3.0000e-005	0.9985
Total													0.9893	3.0000e-005	3.0000e-005	0.9985

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating													0.0000	0.0000	0.0000	0.0000
Off-Road													2.5533	1.7000e-004	0.0000	2.5574
Total													2.5533	1.7000e-004	0.0000	2.5574

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3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.7255	2.0000e-005	2.0000e-005	0.7323
Total													0.7255	2.0000e-005	2.0000e-005	0.7323

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating													0.0000	0.0000	0.0000	0.0000
Off-Road													2.5533	1.7000e-004	0.0000	2.5574
Total													2.5533	1.7000e-004	0.0000	2.5574

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3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling													0.0000	0.0000	0.0000	0.0000
Vendor													0.0000	0.0000	0.0000	0.0000
Worker													0.7255	2.0000e-005	2.0000e-005	0.7323
Total													0.7255	2.0000e-005	2.0000e-005	0.7323

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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													331.4685	0.0321	0.0189	337.9112
Unmitigated													331.4685	0.0321	0.0189	337.9112

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Place of Worship	484.87	484.87	2043.54	925,550	925,550
Unenclosed Parking Structure	0.00	0.00	0.00		
Total	484.87	484.87	2,043.54	925,550	925,550

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
Place of Worship	5.10	5.10	5.10	0.00	95.00	5.00	64	25	11
Unenclosed Parking Structure	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Place of Worship	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388
Unenclosed Parking Structure	0.548470	0.062992	0.183336	0.122442	0.024733	0.006148	0.008613	0.006191	0.000732	0.000545	0.029420	0.000989	0.005388

5.0 Energy Detail

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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													139.5815	8.5300e-003	1.0300e-003	140.1028
Electricity Unmitigated													139.5815	8.5300e-003	1.0300e-003	140.1028
NaturalGas Mitigated													33.4892	6.4000e-004	6.1000e-004	33.6882
NaturalGas Unmitigated													33.4892	6.4000e-004	6.1000e-004	33.6882

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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					
Place of Worship	627564													33.4892	6.4000e-004	6.1000e-004	33.6882
Unenclosed Parking Structure	0													0.0000	0.0000	0.0000	0.0000
Total														33.4892	6.4000e-004	6.1000e-004	33.6882

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					
Place of Worship	627564													33.4892	6.4000e-004	6.1000e-004	33.6882
Unenclosed Parking Structure	0													0.0000	0.0000	0.0000	0.0000
Total														33.4892	6.4000e-004	6.1000e-004	33.6882

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5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Place of Worship	445614	109.1445	6.6700e-003	8.1000e-004	109.5522
Unenclosed Parking Structure	124268	30.4369	1.8600e-003	2.3000e-004	30.5506
Total		139.5815	8.5300e-003	1.0400e-003	140.1028

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Place of Worship	445614	109.1445	6.6700e-003	8.1000e-004	109.5522
Unenclosed Parking Structure	124268	30.4369	1.8600e-003	2.3000e-004	30.5506
Total		139.5815	8.5300e-003	1.0400e-003	140.1028

6.0 Area Detail

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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													2.2400e-003	1.0000e-005	0.0000	2.3900e-003
Unmitigated													2.2400e-003	1.0000e-005	0.0000	2.3900e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating													0.0000	0.0000	0.0000	0.0000
Consumer Products													0.0000	0.0000	0.0000	0.0000
Landscaping													2.2400e-003	1.0000e-005	0.0000	2.3900e-003
Total													2.2400e-003	1.0000e-005	0.0000	2.3900e-003

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating													0.0000	0.0000	0.0000	0.0000
Consumer Products													0.0000	0.0000	0.0000	0.0000
Landscaping													2.2400e-003	1.0000e-005	0.0000	2.3900e-003
Total													2.2400e-003	1.0000e-005	0.0000	2.3900e-003

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	11.5944	0.0451	1.1300e-003	13.0597
Unmitigated	13.2325	0.0563	1.4100e-003	15.0593

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Place of Worship	1.70462 / 2.6662	13.2325	0.0563	1.4100e-003	15.0593
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		13.2325	0.0563	1.4100e-003	15.0593

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Place of Worship	1.3637 / 2.50356	11.5944	0.0451	1.1300e-003	13.0597
Unenclosed Parking Structure	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		11.5944	0.0451	1.1300e-003	13.0597

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	31.5184	1.8627	0.0000	78.0855
Unmitigated	63.0368	3.7254	0.0000	156.1710

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Place of Worship	310.54	63.0368	3.7254	0.0000	156.1710
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		63.0368	3.7254	0.0000	156.1710

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Place of Worship	155.27	31.5184	1.8627	0.0000	78.0855
Unenclosed Parking Structure	0	0.0000	0.0000	0.0000	0.0000
Total		31.5184	1.8627	0.0000	78.0855

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

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