



Rincon Consultants, Inc.

449 15th Street, Suite 303  
Oakland, California 94612

510 834 4455 OFFICE AND FAX

info@rinconconsultants.com  
www.rinconconsultants.com

April 7, 2020

Project No: 19-08966

Alex Casbara  
Circlepoint  
200 Webster Street, Suite 200  
Oakland, California 94607  
Via email: [a.casbara@circlepoint.com](mailto:a.casbara@circlepoint.com)

**Subject: Air Quality Letter Report for the Town Hall Renovation Project, 300 Tamalpais Drive, Corte Madera, California, 94925**

Dear Mr. Casbara:

This letter report analyzes the potential air quality impacts of the proposed Corte Madera Town Hall Renovation project in Corte Madera, California. Rincon Consultants, Inc. prepared this letter report under contract to Circlepoint to support California Environmental Quality Act (CEQA) documentation for an Initial Study-Mitigated Negative Declaration (IS-MND). The project is located in the San Francisco Bay Area Air Basin (SFBAAB) under the jurisdiction of the Bay Area Air Quality Management District (BAAQMD). This assessment is based on significance thresholds and methodologies in the BAAQMD's *CEQA Air Quality Guidelines*.<sup>1</sup>

## Project Location

The project site is located at 300 Tamalpais Drive within the town of Corte Madera (Town) in Marin County (County), California. The project site is currently developed with the existing Corte Madera Town Hall (Town Hall) and encompasses a 15,700 square-foot parcel at the corner of Tamalpais Drive and Willow Avenue. Surrounding development includes single family residences to the north, Corte Madera Fire Department Station 14 (Fire Station) to the east, residences to the south across Tamalpais Drive, and retail stores to the west across Willow Avenue. The Corte Madera Town Park is beyond the fire station to the east. The project site slopes west to east downward approximately 15 feet toward the adjacent Fire Station.

## Project Description

The project would involve the construction of a 5,674-square foot addition to the existing one-story Corte Madera Town Hall building. The original Town Hall building will remain in its current location and the addition would extend approximately 90 feet east into the adjacent public parking lot. The new fully ADA compliant Town Hall would be approximately 10,500 square feet and would include a 350 square-

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<sup>1</sup> BAAQMD. 2017. *California Environmental Quality Act Air Quality Guidelines*. [http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa\\_guidelines\\_may2017-pdf.pdf?la=en](http://www.baaqmd.gov/~media/files/planning-and-research/ceqa/ceqa_guidelines_may2017-pdf.pdf?la=en)



foot public service area, a new council chamber/community room with seating for approximately 95.<sup>2</sup> persons, offices/workspaces to accommodate a small increase in staff from approximately 24 employees to 30, and an outdoor plaza built around the existing redwood trees. The new Town Hall would contain offices for the Town departments of Administration, Finance, Public Works and Building/Planning all in one building accessible from both Tamalpais Drive and the parking lot. The existing building and proposed addition would be connected by a central circulation corridor including an elevator, stairway, lobby and restrooms. Sustainability and durability are an integral part of the proposed design, construction and operation of the new facility. The Town Hall would also be designed and built to serve as a resource in times of emergencies by providing backup power, communications and other vital services.

Construction is anticipated to begin in the beginning of 2021 and would last approximately nine months. The existing Town Hall would be open during the duration of the construction period. Construction staging and activities would occupy portions of the existing parking lots and, for limited times, portions of adjacent streets. The Town would offer temporary parking at the nearby Town Park and the public parking lot located at the intersection of Montecito Drive and Tamalpais Drive. (See Attachment A).

## Environmental Setting

As the local air quality management agency, the BAAQMD is required to monitor air pollutant levels for conformance with state and federal air quality standards and, if they are not met, to develop strategies to meet the standards. Air quality studies generally focus on four pollutants, referred to as criteria pollutants, which are most commonly measured and regulated: carbon monoxide (CO), ground level ozone (O<sub>3</sub>), nitrogen dioxide (NO<sub>2</sub>), and suspended particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>).

Depending on whether the standards are met or exceeded, the SFAAB is classified as being in “attainment” or “nonattainment.” Under state law, air districts are required to prepare a plan for air quality improvement for pollutants for which the district is in non-compliance. The BAAQMD is in non-attainment for the federal and state O<sub>3</sub> standards, the federal and state PM<sub>2.5</sub> (particulate matter up to 2.5 microns in size) standards, and the state PM<sub>10</sub> (particulate matter up to 10 microns in size) standards.<sup>3</sup> Additionally, the BAAQMD is required to prepare a plan for improvement for these pollutants in nonattainment<sup>4</sup>. Table 1 describes the health effects associated with criteria pollutants for which the SFAAB is in non-attainment.

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<sup>2</sup> Please note that the project site plans have been revised to increase the Town Hall by 810 square feet for a total square footage of 11,310 square feet.

<sup>3</sup> One micron equals one-millionth of a meter; i.e. 10<sup>-6</sup>

<sup>4</sup> BAAQMD. 2017. Air Quality Standards and Attainment Status. <http://www.baaqmd.gov/about-air-quality/research-and-data/air-quality-standards-and-attainment-status>. Accessed March 2019



Table 1 Health Effects Associated with Non-Attainment Criteria Pollutants

| Pollutant                                         | Adverse Effects                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ozone                                             | (1) Short-term exposures: (a) pulmonary function decrements and localized lung edema in humans and animals and (b) risk to public health implied by alterations in pulmonary morphology and host defense in animals; (2) long-term exposures: risk to public health implied by altered connective tissue metabolism and altered pulmonary morphology in animals after long-term exposures and pulmonary function decrements in chronically exposed humans; (3) vegetation damage; and (4) property damage. |
| Suspended particulate matter (PM <sub>10</sub> )  | (1) Excess deaths from short-term and long-term exposures; (2) excess seasonal declines in pulmonary function, especially in children; (3) asthma exacerbation and possibly induction; (4) adverse birth outcomes including low birth weight; (5) increased infant mortality; (6) increased respiratory symptoms in children such as cough and bronchitis; and (7) increased hospitalization for both cardiovascular and respiratory disease (including asthma). <sup>1</sup>                              |
| Suspended particulate matter (PM <sub>2.5</sub> ) | (1) Excess deaths from short- and long-term exposures; (2) excess seasonal declines in pulmonary function, especially in children; (3) asthma exacerbation and possibly induction; (4) adverse birth outcomes, including low birth weight; (5) increased infant mortality; (6) increased respiratory symptoms in children, such as cough and bronchitis; and (7) increased hospitalization for both cardiovascular and respiratory disease, including asthma. <sup>1</sup>                                 |

<sup>1</sup> More detailed discussion on the health effects associated with exposure to suspended particulate matter can be found in USEPA's Air Quality Criteria for Particulate Matter, October 2004.

Source: United States Environmental Protection Agency (USEPA) 2018

## Regulatory Setting

### Air Quality Management

The BAAQMD is responsible primarily for assuring the national and state ambient air quality standards are attained and maintained in the Bay Area. It is also responsible for adopting and enforcing rules and regulations concerning air pollutant sources, issuing permits for stationary sources of air pollutants, inspecting stationary sources of air pollutants, responding to citizen complaints, monitoring ambient air quality and meteorological conditions, awarding grants to reduce motor vehicle emissions, conducting public education campaigns, and many other functions. The BAAQMD has jurisdiction over much of the nine-county Bay Area including Marin County.

The BAAQMD adopted the 2017 Clean Air Plan (2017 Plan) as an update to the 2010 Clean Air Plan. The 2017 Plan provides a regional strategy to protect public health and protect the climate. Consistent with the greenhouse gas (GHG) reduction targets adopted by the state, the 2017 Plan lays the groundwork for a long-term effort to reduce Bay Area GHG emissions to 40 percent below 1990 levels by 2030 and 80 percent below 1990 levels by 2050.<sup>5</sup> To fulfill State O<sub>3</sub> planning requirements, the 2017 control strategy includes all feasible measures to reduce emissions of O<sub>3</sub>precursors—reactive organic gases (ROG) by approximately 11 tons per day—and nitrogen oxides (NO<sub>x</sub>) by 9.3 tons per day. The proposed control measures also estimate reduction of PM<sub>2.5</sub> by 3.1 tons per day. From stationary sources, the plan implements reduction methods for methane emissions and toxic air contaminants (TAC) by adopting more stringent thresholds for evaluating toxic risks at existing and new facilities.

<sup>5</sup> BAAQMD. 2017. Spare the Air Cool the Climate: Final 2017 Clean Air Plan. [http://www.baaqmd.gov/~media/files/planning-and-research/plans/2017-clean-air-plan/attachment-a\\_-proposed-final-cap-vol-1-pdf.pdf?la=en](http://www.baaqmd.gov/~media/files/planning-and-research/plans/2017-clean-air-plan/attachment-a_-proposed-final-cap-vol-1-pdf.pdf?la=en)



## Toxic Air Contaminants

The Air Toxic “Hot Spots” Information and Assessment Act of 1987 (AB 2588) seeks to identify and evaluate risk from air toxics sources but does not directly regulate air toxics emissions. Under AB 2588, TAC emissions from individual facilities are quantified and prioritized. “High priority” facilities are required to perform a health risk assessment and, if specific thresholds are violated, are required to communicate the results to the public in the form of notices and public meetings. Although TACs and PM<sub>2.5</sub> tend to be localized and are found in relatively low concentrations in ambient air, exposure to low concentrations over long periods can result in increased risk of cancer and/or adverse health effects in local communities. Because several communities within the Bay Area experience relatively high exposure to TACs compared with other communities, the BAAQMD established the Community Air Risk Evaluation (CARE) program in 2004 to identify impacted communities. Currently the Town of Corte Madera is not considered an impacted community based on the Bay Area TAC inventory developed in 2005.<sup>6</sup> However, BAAQMD’s *CEQA Air Quality Guidelines* include risk and hazard thresholds that are intended to apply to projects that would site new permitted or non-permitted sources in proximity to receptors and for projects that would site new sensitive receptors in proximity to permitted or non-permitted sources of TACs or PM<sub>2.5</sub> emissions.

## Sensitive Receptors

BAAQMD defines sensitive receptors as facilities or land uses that include members of the population that are particularly sensitive to the effects of air pollutants, such as children, the elderly, and the chronically ill. These facilities include residences, school playgrounds, child-care centers, retirement homes, and convalescent homes. The nearest sensitive receptors to the project site are multi-family residential units located directly adjacent to the project site to the north and south of the project site across Tamalpais Drive. The units to the north of the site house Town employees.

## Thresholds

### CEQA Thresholds

To determine whether a project would have a significant impact to air quality, Appendix G of the *CEQA Guidelines* requires consideration of whether a project would:

1. Conflict with or obstruct implementation of the applicable air quality plan
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)
3. Expose sensitive receptors to substantial pollutant concentrations

### BAAQMD Significance Thresholds

The BAAQMD *CEQA Air Quality Guidelines* quantify project-level air quality thresholds with defined numeric values and evaluation criteria for pollutant emissions. These project-level thresholds, shown in Table 2, represent the levels at which a project’s individual emissions of criteria air pollutants or precursors would result in a cumulatively considerable contribution to the SFBAAB’s existing air quality

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<sup>5</sup> <http://www.baaqmd.gov/community-health/community-health-protection-program/community-air-risk-evaluation-care-program>



conditions. The project would result in a significant impact if construction or operational emissions would exceed any of the thresholds shown in Table 2.<sup>5</sup>

Table 2 Air Quality Thresholds of Significance

| Pollutant/Precursor | Construction-Related Thresholds          | Operational Related Thresholds |                                   |
|---------------------|------------------------------------------|--------------------------------|-----------------------------------|
|                     | Average Daily Emissions (pounds per day) | Maximum Annual Emissions (tpy) | Average Daily Emissions (lbs/day) |
| ROG                 | 54                                       | 10                             | 54                                |
| NO <sub>x</sub>     | 54                                       | 10                             | 54                                |
| PM <sub>10</sub>    | 82 (exhaust)                             | 15                             | 82                                |
| PM <sub>2.5</sub>   | 54 (exhaust)                             | 10                             | 54                                |

Source: Table 2-1, Bay Area Air Quality Management District, CEQA Air Quality Guidelines, May 2017.

Notes: tpy = tons per year; lbs/day = pounds per day; NO<sub>x</sub> = oxides of nitrogen; PM<sub>2.5</sub> = fine particulate matter with an aerodynamic resistance diameter of 2.5 micrometers or less; PM<sub>10</sub> = respirable particulate matter with an aerodynamic resistance diameter of 10 micrometers or less; ROG = reactive organic gases.

In addition, the BAAQMD recommends specific Basic Construction Mitigation Measures (as listed in Table 8-1 of the BAAQMD *CEQA Air Quality Guidelines*) to be implemented during construction (to control emissions, whether or not significance thresholds are exceeded). The town of Corte Madera General Plan (2009) also includes policies and measures for achieving air quality goals such as attainment of air quality standards in the SFBAAB. Specifically, Policy RCS-10.3 incorporates air quality mitigation measures for development projects within the town, featuring control for construction equipment, dust, odor emission, demolition air contaminants, and TACs.

#### STATIONARY SOURCES

Per the BAAQMD *CEQA Air Quality Guidelines*, newly modified or constructed stationary sources subject to Air District permitting may be required to implement Best Available Control Technology (BACT), which may include the installation of emissions control equipment or the implementation of administrative practices that would result in the lowest achievable emission rate. Stationary sources may also be required to offset their emissions of criteria air pollutants and precursors to be permitted. This may entail shutting down or augmenting another stationary source at the same facility. Facilities also may purchase an emissions reduction credit to offset their emissions.

#### CARBON MONOXIDE HOTSPOTS

BAAQMD provides a preliminary screening methodology to conservatively determine whether a proposed project would exceed CO thresholds. If the following criteria are met, a project would result in a less than significant impact related to local CO concentrations:

- Project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, regional transportation plan, and local congestion management agency plans.
- The project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.



- The project traffic would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadway).

### *Toxic Air Contaminant Thresholds*

BAAQMD has established screening criteria applicable to projects that would introduce new stationary sources of TAC emissions or add vehicle trips to major roadways, which are sources of TAC and PM<sub>2.5</sub> emissions. Community risk and hazards screening tools from BAAQMD can be applied to provide conservative estimates of TAC exposure. If these screening tools indicate that TAC levels from the project may be excessive, the BAAQMD recommends that further, more refined analysis, including site-specific dispersion modeling, be conducted for more accurate (and usually lower) risk and hazard estimates. The screening tools provide estimates for PM<sub>2.5</sub> concentrations, cancer risk, chronic hazard risk, and acute hazard risk from stationary, roadway, and highway sources. The risk and hazard screening analysis process includes the identification of emissions sources (permitted sources, highways, and major roadways [more than 10,000 average daily vehicle trips]) within 1,000 feet of the project's fence line using BAAQMD screening tools. If impacts due to emissions of TACs or PM<sub>2.5</sub> from any individual source would exceed any of the thresholds shown below, the project would result in a significant impact. Thresholds include:

- Non-compliance with a qualified risk reduction plan;
- An excess cancer risk level of more than 10 in one million, or a non-cancer (i.e., chronic or acute) hazard index greater than 1.0 would be a cumulatively considerable contribution; or
- An incremental increase of greater than 0.3 micrograms per cubic meter (µg/m<sup>3</sup>) annual average PM<sub>2.5</sub> would be a cumulatively considerable contribution.

A project would be considered to have a cumulatively considerable impact if the aggregate total of current and proposed TAC sources within a 1,000 feet radius of the project fence line in addition to the proposed project would exceed the following *Thresholds of Significance*:

- Not to exceed an increased cancer risk of > 100 in one-million
- Not to exceed increased non-cancer (i.e., Chronic or Acute) risk of > 10 Hazard Index
- Not to exceed ambient PM<sub>2.5</sub> concentration increase > 0.8 µg/m<sup>3</sup> annual average

Excess cancer risks are defined as those occurring in excess of or above and beyond those risks that would normally be associated with a location or activity if toxic pollutants were not present. Non-carcinogenic health effects are expressed as a hazard index, which is the ratio of expected exposure levels to an acceptable reference exposure level.

## Methodology

The project's construction and operational emissions were estimated using the California Emissions Estimator Model (CalEEMod), version 2016.3.2 (see Attachment B). CalEEMod uses project-specific information, including the project's land uses, square footages for different uses (e.g., government office building), and location, to estimate a project's construction and operational emissions. Maximum daily emissions do not account for compliance with BAAQMD Basic Construction Mitigation Measures.



## Construction Emissions

Modeled construction emissions include emissions generated by construction equipment used on site and emissions generated by vehicle trips associated with construction, such as worker and vendor trips. Emissions associated with the interior remodeling component of the project were not modeled because the remodel is assumed to be primarily completed using small electric-powered hand tools, and not large emission-generating construction equipment. Emissions were modeled assuming construction of a 10,500 square foot single-unit government office building and an unenclosed six-stall parking area with an elevator for ADA accommodation.<sup>2,7</sup> Construction modeling was based on information provided by the applicant for a construction schedule of approximately nine months beginning in 2021. CalEEMod defaults were used to determine construction equipment. For the purposes of this analysis, it was assumed that construction of the project would begin in January 2021 and end in August 2021. It was assumed that 2022 would be the first full operational year.

## Operational Emissions

Operational emissions modeled include mobile source emissions (i.e., vehicle emissions) and area source emissions. Mobile source emissions include emissions generated by trips to and from the project site. The default trip generation rates applied for project were from the Institute of Traffic Engineers 9<sup>th</sup> Edition for Government Office Building (ITE code: 730) and adjusted to account for 12 total additional daily trips resulting from the increase in employees from 24 to 30.<sup>8</sup> Area source emissions are generated by landscape maintenance equipment, consumer products, and architectural coatings. Project design features such as sustainable project design options and the potential inclusion of an emergency generator that have not been confirmed within the project plan are not included in the modeling. Similarly, the installation of EV charging stations was conservatively excluded from the model because the number of stations is currently unknown.

## STATIONARY SOURCES

CalEEMod only calculates direct emissions of criteria pollutants from energy sources that combust on-site, such as natural gas used in a building.<sup>9</sup> CalEEMod does not calculate or attribute emissions of criteria pollutants from electricity generation to individual projects because fossil fuel power plants are existing stationary sources permitted by air districts and/or the U.S. EPA, and they are subject to local, state and federal control measures. Criteria pollutant emissions from power plants are associated with the power plants themselves, and not individual projects or electricity users.

The project would include one backup generator on the project site to be used only during an emergency when electricity cannot be supplied by Pacific Gas and Electric Company. For the purposes of this analysis the generator was conservatively assumed to be an MTU 16V4000 DS2250 diesel generator or similar model. Stationary source emissions associated with the operation of the one backup diesel generators were calculated based on manufacturer specifications, exhaust emission data for U.S. EPA Tier 2 emissions standards equipped with zero diesel particulate filters, and the estimated frequency

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<sup>7</sup> The Townhall space was modeled in CalEEMod using the "Government Office Building" land use. Per the CalEEMod User's Guide, "This is an individual building containing either the entire function or simply one agency of a city, county, state, federal, or other governmental unit." (California Air Pollution Control Officers Association [CAPCOA]. November 2017. California Emissions Estimator Model: User's Guide Version 2016.3.2. [http://www.aqmd.gov/docs/default-source/caleemod/01\\_user-39-s-guide2016-3-2\\_15november2017.pdf?sfvrsn=4](http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4))

<sup>8</sup> Please note that a traffic analysis was completed for the project following the date of this study and the project would generate 45 daily trips.

<sup>9</sup> California Air Pollution Control Officers Association (CAPCOA). 2017. California Emissions Estimator Model (CalEEMod) User's Guide. Version 2016.3.2. [http://www.aqmd.gov/docs/default-source/caleemod/01\\_user-39-s-guide2016-3-2\\_15november2017.pdf?sfvrsn=4](http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4)





and duration of operation of the generators. See Attachment C for diesel generator emissions calculations.

Operational stationary source modeling relied on the following assumptions:

- **Maintenance Testing.** The generators would require maintenance testing performed throughout the year. To account for criteria pollutant emissions generated during maintenance testing activities and assuming the generator would run for two days per year based on applicant provided information, it was conservatively assumed that the backup diesel generator would operate for up to 48 hours per year. Average daily emissions were calculated, as per BAAQMD guidance.
- **Emergency Usage.** Criteria pollutant emissions were not calculated for emergency use scenarios such as a power failure, as BAAQMD stationary source permitting exempts emergency use.

## Impact Analysis

### **CEQA Appendix G Air Quality Threshold 1**

Would the project conflict with or obstruct implementation of the applicable air quality plan? (*Less Than Significant*)

A project would conflict with or potentially obstruct implementation of an Air Quality Management Plan (AQMP) if it would not support the primary goals of the plan, if it does not include applicable control measures from the plan, or if it would disrupt or hinder implementation of the plan. The 2017 Clean Air Plan includes goals and measures to increase the use of electric vehicles, promote the use of on-site renewable energy, and encourage energy efficiency. The project includes features that are consistent with these goals and measures, including the provision of electric vehicle charging spaces, meeting California Green Building Standards, and providing natural light and ventilation. Therefore, the project would not conflict with or obstruct the implementation of an applicable air quality plan and the project would have a less than significant impact.

### **CEQA Appendix G Air Quality Threshold 2**

Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions that exceed quantitative thresholds for ozone precursors)? (*Less Than Significant*)

## Construction Emissions

Project construction would generate temporary air pollutant emissions. Table 3 summarizes the estimated maximum daily emissions of pollutants during project construction. As shown in Table 3, project emissions for all criteria pollutants would not exceed BAAQMD thresholds.





Table 3 Project Construction Emissions<sup>10</sup>

| Year                                                                                                                                                                                                  | Estimated Emissions (lbs/day) |                 |     |                               |                                |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------------|-----|-------------------------------|--------------------------------|-----------------|
|                                                                                                                                                                                                       | ROG                           | NO <sub>x</sub> | CO  | PM <sub>10</sub><br>(exhaust) | PM <sub>2.5</sub><br>(exhaust) | SO <sub>x</sub> |
| 2021 Maximum Daily Emissions                                                                                                                                                                          | 2.5                           | 9.7             | 9.4 | 0.5                           | 0.5                            | <0.1            |
| BAAQMD Thresholds<br>(average daily emissions)                                                                                                                                                        | 54                            | 54              | N/A | 82                            | 54                             | N/A             |
| Threshold Exceeded?                                                                                                                                                                                   | No                            | No              | N/A | No                            | No                             | N/A             |
| See Table 2.0 "Overall Construction-mitigated" emissions. Winter emissions results are shown for all emissions except CO, which has higher summer emissions. See CalEEMod worksheets in Attachment A. |                               |                 |     |                               |                                |                 |
| N/A = not applicable; no BAAQMD threshold for CO or SO <sub>x</sub>                                                                                                                                   |                               |                 |     |                               |                                |                 |

## Operational Emissions

Long-term emissions associated with project operation, as shown in Table 4 and Table 5, would include emissions from vehicle trips (mobile sources), landscape maintenance equipment, use of consumer products, and architectural coating associated with on-site development (area sources). BAAQMD is responsible for issuing permits for the construction and operation of stationary sources in order to reduce air pollution, and to attain and maintain the national and California air quality standards in the SFBAAB. Per the 2017 BAAQMD CEQA Air Quality Guidelines, emissions from newly constructed stationary sources subject to Air District permitting should be added to the indirect and area sources emissions estimates after the application of BACT or offsets to estimate total project emissions. Therefore, Table 4 and Table 5 summarize operational emissions associated with annual testing and maintenance operations of the one emergency generator on site (individual generator) assuming annual operation of 48 hours for the generator. Operational emissions calculations did not account for the application of any verified diesel particulate filters. As shown in Table 4 and Table 5, emissions would not exceed BAAQMD daily or annual thresholds for any criteria pollutant.

<sup>10</sup> The project site plans have been revised to increase size of the Town Hall by 810 square feet for a total square footage of 11,310 square feet after the date this study was completed. Conservatively assuming the approximately eight percent increase in square feet would increase construction emissions proportionally by eight percent emissions would not exceed or come close to the BAAQMD construction emissions thresholds as shown in Table 3.



Table 4 Project Operational Average Daily Emissions<sup>11</sup>

| Sources                 | Average Daily Emissions (lbs/day) |                 |      |                  |                   |                 |
|-------------------------|-----------------------------------|-----------------|------|------------------|-------------------|-----------------|
|                         | ROG                               | NO <sub>x</sub> | CO   | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>x</sub> |
| Area                    | 0.2                               | <0.1            | <0.1 | 0.0              | 0.0               | 0.0             |
| Energy                  | <0.1                              | <0.1            | <0.1 | <0.1             | <0.1              | <0.1            |
| Mobile                  | <0.1                              | 0.3             | 1.0  | 0.3              | <0.1              | <0.1            |
| Individual Generator    | N/R                               | 4.9             | 0.5  | <0.1             | <0.1              | N/R             |
| Total Project Emissions | 0.3                               | 5.2             | 1.5  | 0.3              | <0.1              | <0.1            |
| BAAQMD Thresholds       | 54                                | 54              | N/A  | 82               | 54                | N/A             |
| Threshold Exceeded?     | No                                | No              | N/A  | No               | No                | N/A             |

See Table 2.0 "Overall operational-mitigated" Winter emissions. See CalEEMod worksheets in Attachment B. Numbers may not add up due to rounding.

See "Operational Calcs" Single Generator emissions in Attachment C. Numbers may not add up due to rounding

N/A = not applicable; no BAAQMD threshold for CO or SO<sub>x</sub>

N/R = Not reported

Table 5 Project Operational Maximum Annual Emissions<sup>11</sup>

| Sources                 | Maximum Annual Emissions (tons/year) |                 |      |                  |                   |                 |
|-------------------------|--------------------------------------|-----------------|------|------------------|-------------------|-----------------|
|                         | ROG                                  | NO <sub>x</sub> | CO   | PM <sub>10</sub> | PM <sub>2.5</sub> | SO <sub>x</sub> |
| Area                    | <0.1                                 | 0.0             | <0.1 | 0.0              | 0.0               | 0.0             |
| Energy                  | <0.1                                 | <0.1            | <0.1 | <0.1             | <0.1              | <0.1            |
| Mobile                  | <0.1                                 | <0.1            | 0.1  | <0.1             | <0.1              | <0.1            |
| Individual Generator    | N/R                                  | 0.9             | <0.1 | <0.1             | <0.1              | N/R             |
| Total Project Emissions | <0.1                                 | 0.9             | 0.1  | <0.1             | <0.1              | <0.1            |
| BAAQMD Thresholds       | 10                                   | 10              | N/A  | 15               | 10                | N/A             |
| Threshold Exceeded?     | No                                   | No              | N/A  | No               | No                | N/A             |

See Table 2.0 "Overall operational-mitigated" Winter emissions. See CalEEMod worksheets in Attachment B. Numbers may not add up due to rounding.

See "Operational Calcs" Single Generator emissions in Attachment C. Numbers may not add up due to rounding

N/A = not applicable; no BAAQMD threshold for CO or SO<sub>x</sub>

N/R = Not reported

#### CEQA Appendix G Air Quality Threshold 4

Would the project expose sensitive receptors to substantial pollutant concentrations? (*Less Than Significant*)

### Carbon Monoxide Hotspots

<sup>11</sup> The project site plans have been revised to increase size of the Town Hall by 810 square feet for a total square footage of 11,310 square feet and the traffic analysis concluded the project would generate 45 daily project trips after the date this study was completed. Conservatively assuming an approximately eight percent increase in square footage and a 73 increase in the number of vehicles would increase area and energy emissions proportionally by eight and mobile emissions proportionally by 73 percent emissions would not exceed or come close to the BAAQMD operational emissions thresholds as shown in Table 4 and Table 5.



A project's indirect CO emissions would be significant if they contribute to a violation of the State standards for CO (9.0 parts per million (PPM) averaged over 8 hours and 20 ppm over 1 hour). BAAQMD provides a preliminary screening methodology to conservatively determine whether a proposed project would exceed CO thresholds. If the following criteria are met, a project would not have a significant impact related to local CO concentrations:

1. Project is consistent with an applicable congestion management program established by the county congestion management agency for designated roads or highways, regional transportation plan, and local congestion management agency plans.
2. The project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.
3. The project traffic would not increase traffic volumes at affected intersections to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadway).

The project would add approximately six new employees to the Town Hall and therefore would generate 12 additional daily trips as compared to existing use of the project site.<sup>8</sup> The generation of the daily trips meets the criteria listed above and would be consistent with the County Congestion Management Program, as it would not significantly affect peak hour travel, housing balance or mode of transportation. As a result, the project would not result in individually or cumulatively significant impacts from CO emissions and would have a less than significant impact on local CO concentrations.

## Toxic Air Contaminants

Health impacts associated with TACs are generally due to long-term exposure. Typical sources of TACs include industrial processes such as petroleum refining operations, commercial operations such as gasoline stations and dry cleaners, and diesel exhaust. BAAQMD recommends that lead agencies should review risks from nearby roadways, freeways, and stationary sources for new receptor projects.<sup>12</sup> Project operation would not create new receptors. However, the project would include one emergency backup diesel generator, which is considered a typical source of TAC emissions by BAAQMD.

Per guidance in BAAQMD's *Recommended Methods for Screening and Modeling Local Risks and Hazards* (2012), there is no project radius recommended for new sources. Rather the location of the maximum risk, hazard, and PM<sub>2.5</sub> concentration from the new source affecting a receptor should be identified. BAAQMD considers sensitive receptors to be people occupying or residing in residential dwellings, schools, daycares, hospitals, and senior-care facilities. The nearest sensitive receptors to the project site are residences located approximately 35 feet north of the generator site.<sup>13</sup> As recommended by the BAAQMD *CEQA Air Quality Guidelines*, the estimated risk associated with sources permitted by BAAQMD, such as the proposed diesel generators, should be evaluated first using a screening-level analysis. BAAQMD *Risk and Hazards Emissions Screening Calculator* (Beta Version) was used to calculate cancer risk, chronic hazard index, and PM<sub>2.5</sub> concentrations using the emissions data for the operation of the one backup diesel generator operating for 48 hours per year.<sup>14</sup>

<sup>12</sup> Bay Area Air Quality Management District (BAAQMD) 2012. Stationary Source Risk & Hazard Analysis Tool. May 30, 2012.

<http://www.baaqmd.gov/plans-and-climate/california-environmental-quality-act-ceqa/ceqa-tools>

<sup>13</sup> The location of the emergency generator has not been determined. For the purposes of this analysis, it was conservatively assumed to be located adjacent to the Town Hall structure along the northern-facing edge of the building, approximately 35 feet from the nearest residence.

<sup>14</sup> Bay Area Air Quality Management District (BAAQMD). 2019b. Top 4 Summary: Select Pollutant, Years, & Area. <https://www.arb.ca.gov/adam/topfour/topfour1.php>



Diesel generator emission estimates were based on manufacturer specifications, exhaust emission data for U.S. EPA Tier 2 emissions standards, and the estimated frequency and duration of operation of the generators (i.e., 48 hours per year). To evaluate ground level concentration of DPM and PM<sub>2.5</sub>, it was conservatively assumed that DPM emissions would be equivalent to the generator PM emissions and PM<sub>2.5</sub> emissions made up 97.6 percent of total generator PM emissions.<sup>15</sup> Based on the manufacturer exhaust emissions rate certification, daily average DPM emissions and PM<sub>2.5</sub> emissions would be approximately be 0.18 lbs/day. Consequently, at the project site the associated cancer risk would be 8.44 in one million, the chronic hazard index would be 0.002, and PM<sub>2.5</sub> emissions would be 0.011 µg/m<sup>3</sup>. BAAQMD's *Diesel Internal Combustion Engine Distance Multiplier Tool* further refines the screening values for risk and PM<sub>2.5</sub> based on the distance to the receptor. For the purposes of this analysis, the generator was conservatively assumed to be located adjacent to the Town Hall structure along the northern-facing edge of the building, approximately 35 feet from the nearest residence. The estimated cancer risk, hazard index, and PM<sub>2.5</sub> concentration at the receptor was compared to the BAAQMD single source thresholds (See Attachment D).

Table 6 summarizes the health risks from operation of the emergency generator at the nearest sensitive receptor, considered the maximum exposed individual (MEI) in this analysis.

Table 6 Health Risks from Generator Operation (48 Hours Per Year at 35 Feet)

| Scenario                      | Excess Cancer Risk<br>(per million) | Chronic<br>Health Risk <sup>1</sup> | PM <sub>2.5</sub> µg/m <sup>3</sup> annual<br>average |
|-------------------------------|-------------------------------------|-------------------------------------|-------------------------------------------------------|
| Maximum Exposed Individual    | 8.44                                | 0.002                               | 0.011                                                 |
| BAAQMD Significance Threshold | >10                                 | >1                                  | >0.3                                                  |
| Threshold Exceeded?           | No                                  | No                                  | No                                                    |

PM<sub>2.5</sub> = particulate matter less than 2.5 microns in size; µg/m<sup>3</sup> = micrograms per cubic meter;

<sup>1</sup> Noncancer health impacts are determined by dividing the airborne concentration at the receptor by the appropriate Reference Exposure Level (REL) for that substance. A REL is defined as the concentration at which no adverse noncancer health effects are anticipated. Because noncancer health impacts are assessed as the ratio of airborne concentration versus the REL, the resulting hazard index is unitless.

<sup>2</sup> There is no acute reference exposure level for diesel exhaust to calculate acute health risk. Furthermore, except for unusual circumstances of high exposure, Office of Environmental Health Hazard Assessment does not recommend acute analysis for DPM.

As shown in Table 6, operation from testing and maintenance of the generator would not result in an exceedance of BAAQMD single source significance thresholds for excess cancer risk, chronic risk, and ground level PM<sub>2.5</sub> concentrations at the nearest sensitive receptor.

BAAQMD's *Recommended Methods for Screening and Modeling Local Risks and Hazards* (2011) also recommends assessing cumulative impacts of a new source or sources in combination with existing sources located within 1,000 feet of the project site. Cumulative impacts to the maximally impacted receptor should include the new source as well as any additional sources located within a 1,000-foot radius of the project site. However, no stationary sources or major roadways have been identified within 1,000 feet of the project site using the BAAQMD's *Stationary Source Risk & Hazard Analysis Tool* (2012). Therefore, cumulative sources of TACs would not result in an exceedance of annual PM<sub>2.5</sub>

<sup>15</sup> South Coast Air Quality Management District (SCAQMD). 2006. Final -Methodology to Calculate Particulate Matter (PM) 2.5 and PM 2.5 Significance Thresholds. October 2006. [http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/particulate-matter-\(pm\)-2.5-significance-thresholds-and-calculation-methodology/final\\_pm2\\_5methodology.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/localized-significance-thresholds/particulate-matter-(pm)-2.5-significance-thresholds-and-calculation-methodology/final_pm2_5methodology.pdf?sfvrsn=2)



concentrations, chronic or cancer health risks above cumulative significance thresholds at the MEI. Operational impacts would be less than significant.

## Conclusions and Recommendations

Based on the analysis in this letter report, the project would have less than significant impact related to construction and operational air quality. In addition, the project would have less than significant, or no impact related to substantial TACs or Carbon Monoxide hotspots and would not conflict with the applicable Clean Air Plan (2017).

Sincerely,  
Rincon Consultants, Inc.

Kari Zajac, MESM  
Project Manager

Abe Leider, AICP CEP  
Principal

### Attachments

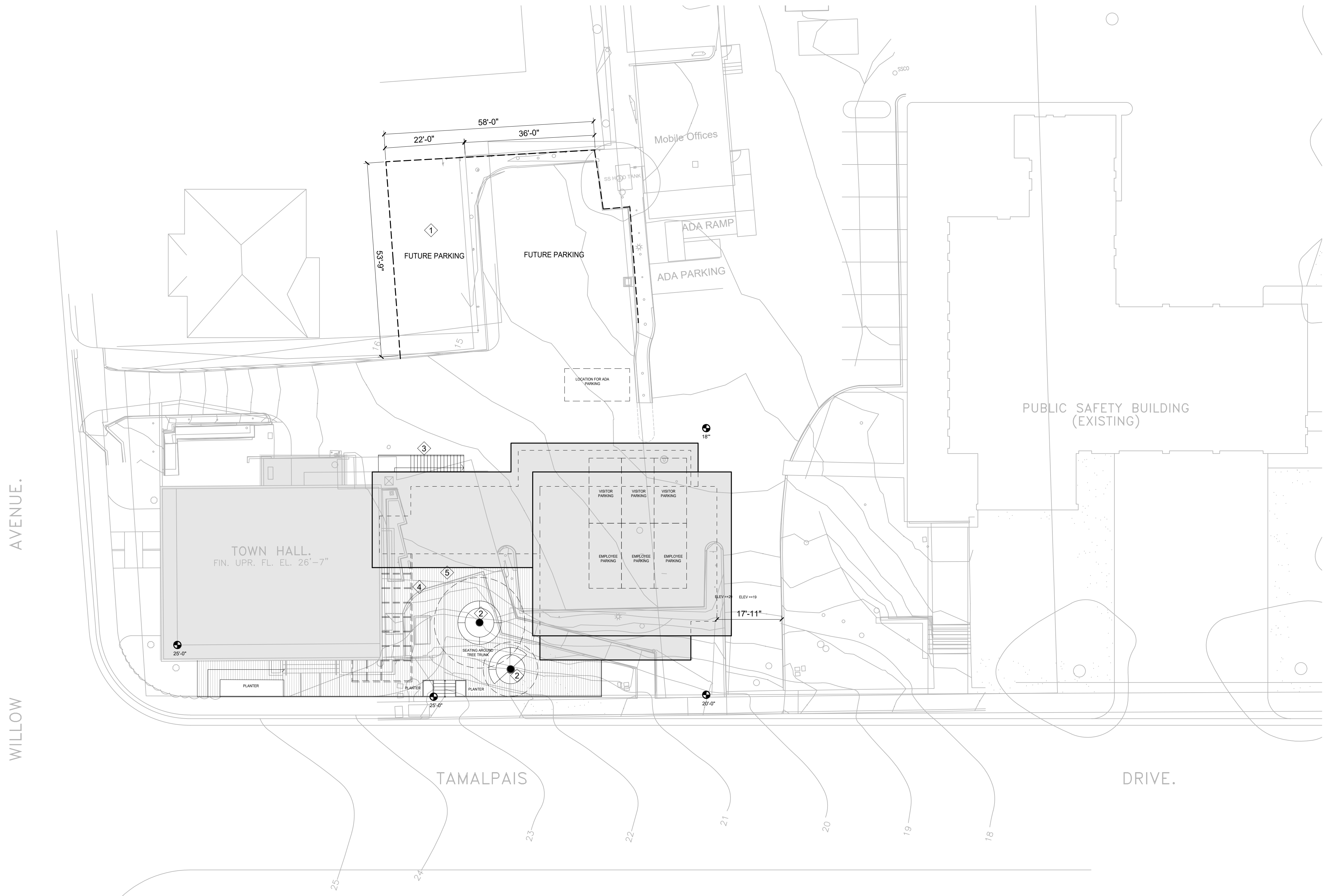
- Attachment A Project Site Plan
- Attachment B California Emissions Estimator Model Results
- Attachment C Backup Diesel Generator Emissions
- Attachment D BAAQMD Health Risk Screening

# Attachment A

---

Project Site Plan





1 (E) SITE PLAN WITH (N) FOOTPRINT OVERLAYED  
1/16" = 1'-0" NORTH

KEY NOTES

- 1 FUTURE PARKING WILL EXTEND 22' INTO NEIGHBOR'S BACKYARD
- 2 REDWOOD TREE LOCATION
- 3 EXTERIOR STAIRS FROM PARKING LOT TO MAIN BUILDING
- 4 TRELLIS
- 5 ENTRY PLAZA WITH SEATING AROUND REDWOOD TREES.

(N) SQFT

| PARKING FLOOR |            |
|---------------|------------|
| REMODELED     | = 665 SQFT |
| NEW           | = 851 SQFT |

| FIRST FLOOR           |              |
|-----------------------|--------------|
| REMODELED             | = 2,950 SQFT |
| NEW (W/STAIRS & ELEV) | = 3,228 SQFT |

| SECOND FLOOR |              |
|--------------|--------------|
| NEW          | = 2,621 SQFT |

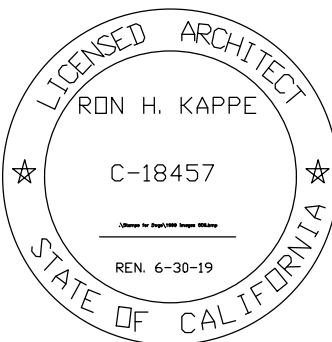
| SQFT SUMMARY:   |              |
|-----------------|--------------|
| TOTAL REMODELED | = 3,615 SQFT |
| TOTAL NEW       | = 6,700 SQFT |

KAPPE ARCHITECTS

801 'D' STREET SAN RAFAEL, CA 94901  
TEL: 415.457.7801 FAX: 415.457.7885

CORTE MADERA TOWN HALL

300 TAMALPAIS DRIVE  
CORTE MADERA, CA 94925



| AP #:        |            |      |
|--------------|------------|------|
| Project No.: | 19.02      |      |
| Drawn By:    | MH         |      |
| Checked By:  | RK         |      |
| Issued Date: | 09-05-2019 |      |
| Revision     | No.        | Date |
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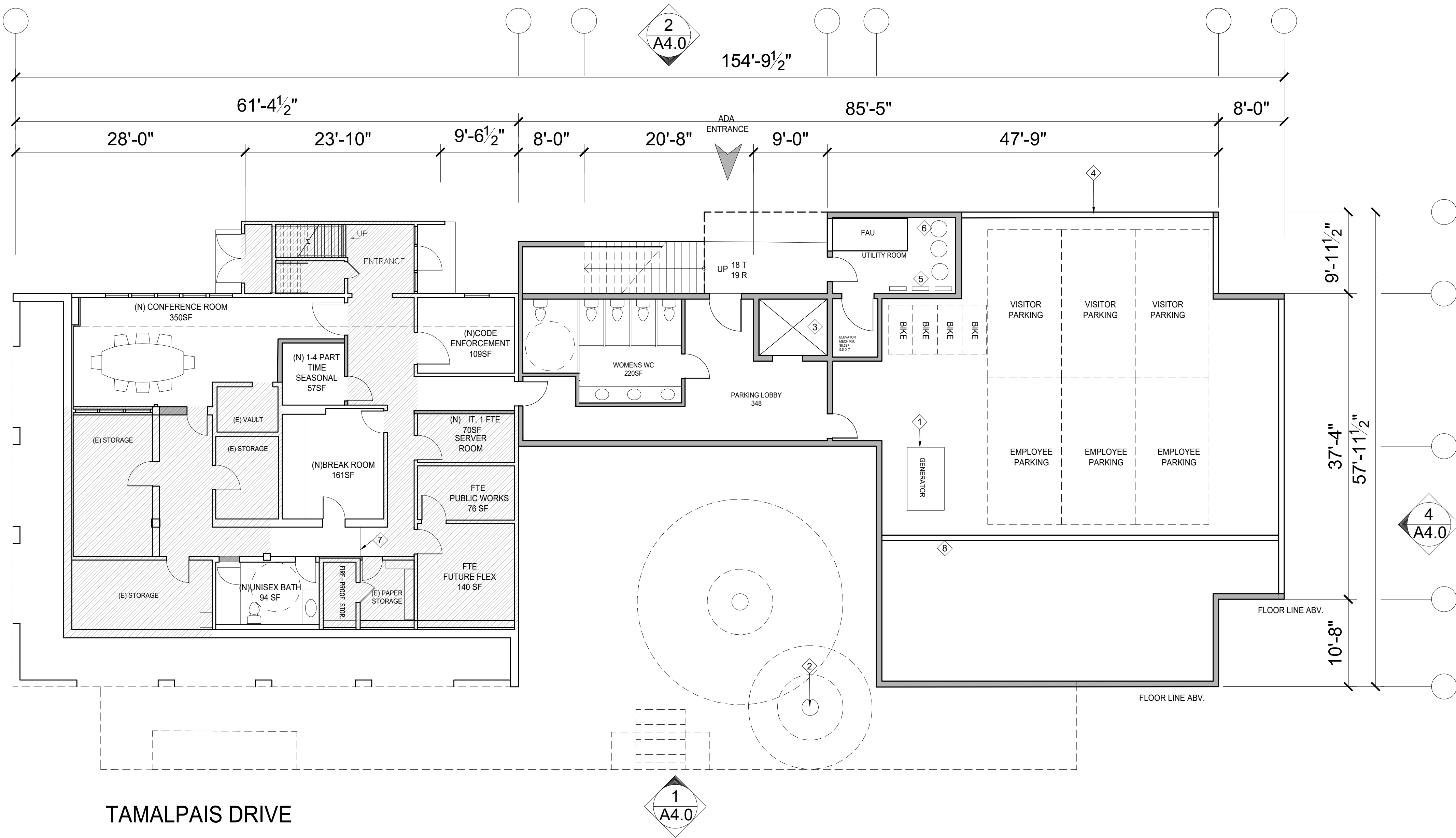
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Sheet Title:  
(E) AND (N) SITEPLAN DIAGRAM

Scale: AS NOTED

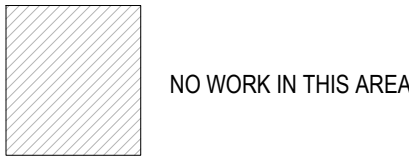
Sheet No: A0.0





KEY NOTES

- 1 (E) GENERATOR RELOCATED
- 2 REDWOOD TREE LOCATION
- 3 ELEVATOR
- 4 GATE FOR PARKING
- 5 ELEC. PANEL, FIRE ALARM PHONE BOARD
- 6 HWH
- 7 STEP
- 8 42" WALL

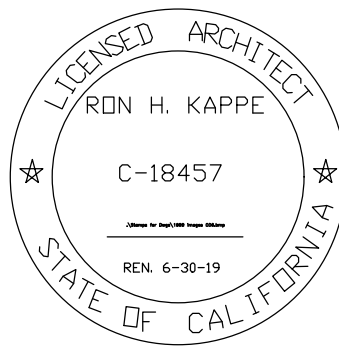


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CORTE MADERA  
TOWN HALL

300 TAMALPAIS DRIVE  
CORTE MADERA, CA 94925



AP #:

|              |            |
|--------------|------------|
| Project No.: | 19.02      |
| Drawn By:    | MH         |
| Checked By:  | RK         |
| Issued Date: | 09-05-2019 |
| Revision     | No. Date   |

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Sheet Title:

PROPOSED PARKING PLAN  
AND LOWER LOBBY ENTRY

Scale: AS NOTED

Sheet No: **A2.0**

(N) SQFT

|               |            |
|---------------|------------|
| PARKING FLOOR |            |
| REMODELED     | = 665 SQFT |
| NEW           | = 851 SQFT |

|                       |              |
|-----------------------|--------------|
| FIRST FLOOR           |              |
| REMODELED             | = 2,950 SQFT |
| NEW (W/STAIRS & ELEV) | = 3,228 SQFT |

|              |              |
|--------------|--------------|
| SECOND FLOOR |              |
| NEW          | = 2,621 SQFT |

|                 |              |
|-----------------|--------------|
| SQFT SUMMARY:   |              |
| TOTAL REMODELED | = 3,615 SQFT |
| TOTAL NEW       | = 6,700 SQFT |

SQFT OF EXISTING TOWN HALL = 5, 447 SQFT

WALL TYPES

- EXISTING WALL
- NEW WALL



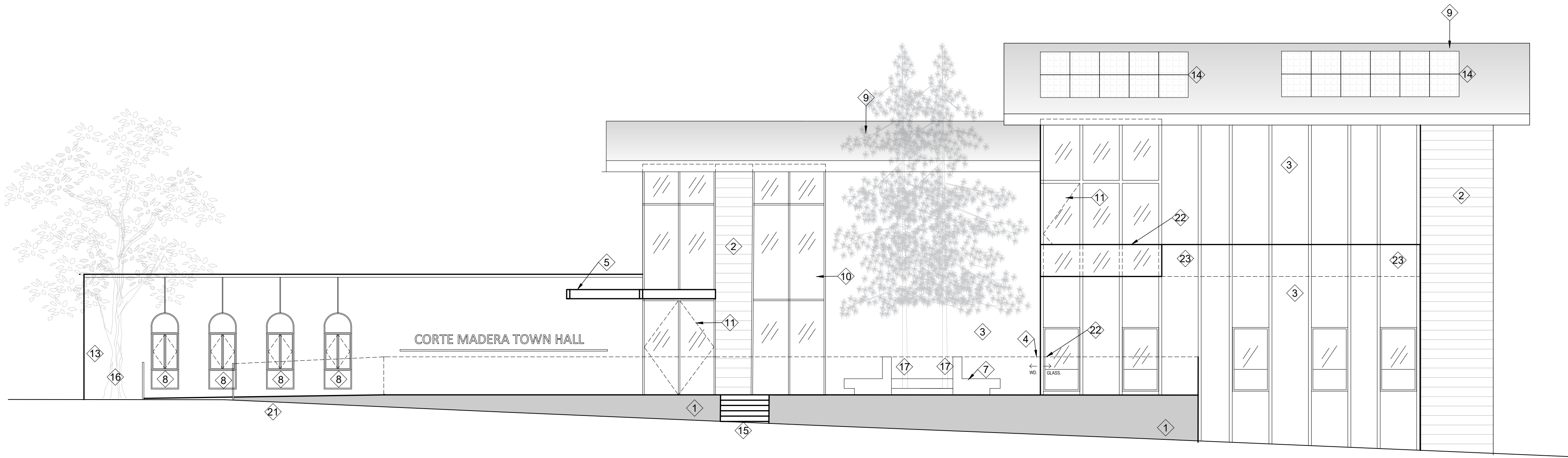




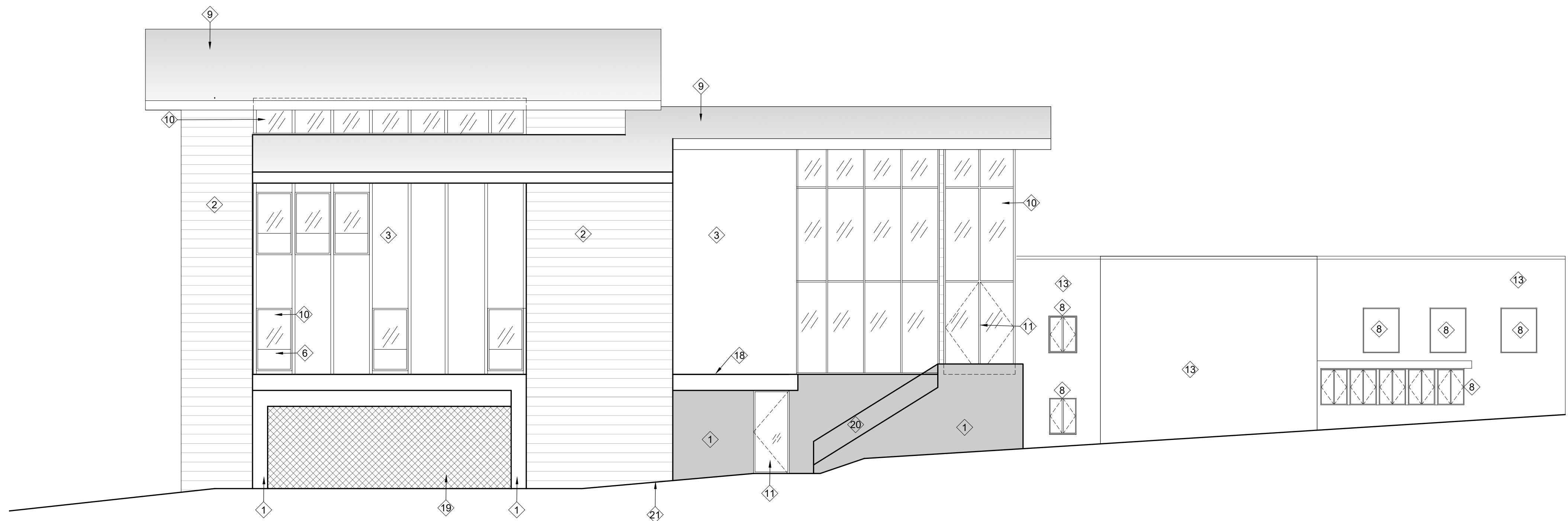


NORTH 





1 PROPOSED SOUTH ELEVATION  
1/8" = 1'-0"



2 PROPOSED NORTH ELEVATION  
1/8" = 1'-0"

## KEY NOTES

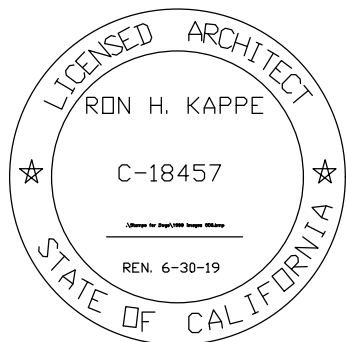
- 1 CONCRETE WALLS
- 2 CEDAR T & G WOOD SIDING
- 3 STUCCO, TYP.
- 4 WOOD SIDING AT GUARDRAIL
- 5 TRELLIS STRUCTURE
- 6 WINDOW WITH LOWER ETCHED FOR PRIVACY
- 7 HARDWOOD SEATING AROUND (E) REDWOOD TREES
- 8 (E) WINDOWS
- 9 ASPHALT COMPOSITE CLASS A SHINGLES, TYP.
- 10 (N) ALUMINUM WINDOWS, ANODIZED STOREFRONT WINDOW SYSTEM
- 11 (N) ALUMINUM DOOR, TO MATCH WINDOWS
- 12 KEYNOTE NOT IN USE
- 13 PAINT (E) WALLS
- 14 SOLAR PANELS 39"X 77", TYP. 2 BAYS, TOTAL =22
- 15 (N) ENTRY STAIRS & PLAZA
- 16 (E) TREE
- 17 (E) REDWOOD TREE (LOWER BRANCHES TRIMMED FOR 12' OF CLEARANCE)
- 18 CONCRETE PODIUM STRUCTURE
- 19 ROLL DOWN GATE FOR GARAGE
- 20 ANODIZED ALUMINUM GUARDRAIL
- 21 ADA ENTRY RAMP
- 22 GLASS RAILING AND GUARDRAIL
- 23 42" PARAPET WITH STUCCO TO MATCH WALL BELOW

KAPPE ARCHITECTS

801 'D' STREET SAN RAFAEL, CA 94901  
TEL: 415.457.7801 FAX: 415.457.7885

## CORTE MADERA TOWN HALL

300 TAMALPAIS DRIVE  
CORTE MADERA, CA 94925



AP #:

Project No.: 19.02

Drawn By: MH

Checked By: RK

Issued Date: 09-05-2019

| Revision | No. | Date |
|----------|-----|------|
|          |     |      |
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Sheet Title:

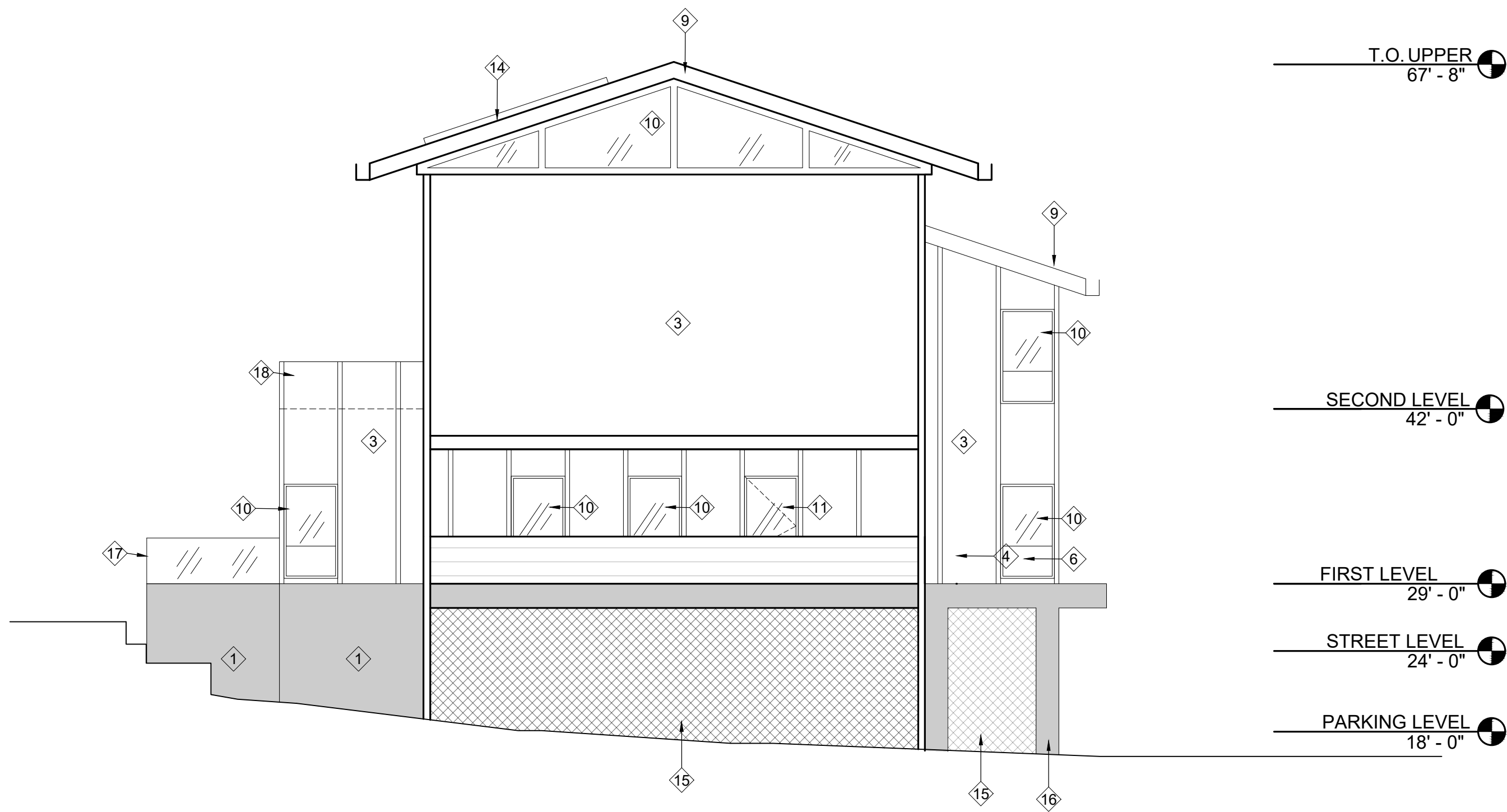
PROPOSED NORTH AND SOUTH ELEVATIONS

Scale: AS NOTED

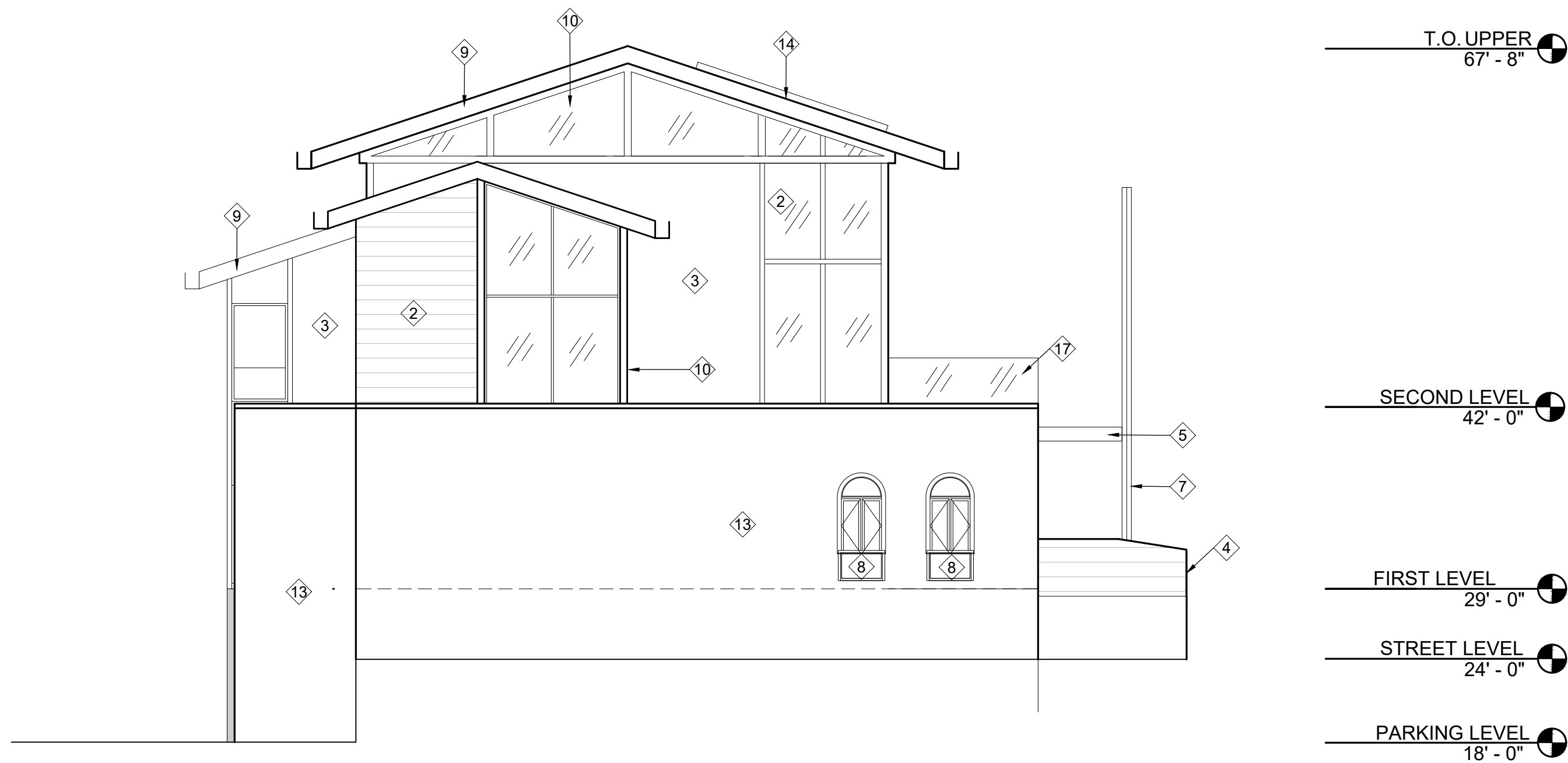
Sheet No:

A3.0





1 PROPOSED EAST ELEVATION  
1/8" = 1'-0"



2 PROPOSED WEST ELEVATION  
1/8" = 1'-0"

## KEY NOTES

- 1 CONCRETE WALLS
- 2 CEDAR T & G WOOD SIDING
- 3 STUCCO, TYP.
- 4 WOOD SIDING AT GUARDRAIL
- 5 TRELLIS STRUCTURE
- 6 WINDOW WITH LOWER ETCHED FOR PRIVACY
- 7 (E) FLAGPOLE
- 8 (E) WINDOWS
- 9 ASPHALT COMPOSITE CLASS A SHINGLES, TYP
- 10 (N) ALUMINUM WINDOWS, ANODIZED STOREFRONT WINDOW SYSTEM
- 11 (N) ALUMINUM DOOR, TO MATCH WINDOWS
- 12 EXTERIOR STAIRS BEYOND
- 13 PAINT (E) WALLS
- 14 SOLAR PANELS 39"X 77", TYP. 2 BAYS, TOTAL =22
- 15 WIRE MESH SCREEN
- 16 STEEL AND CONCRETE COLUMNS
- 17 GLASS RAILING AND GUARDRAIL.
- 18 42" PARAPET WITH STUCCO TO MATCH WALL BELOW

## WALL TYPES

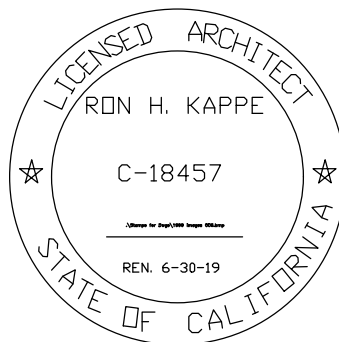
- EXISTING WALL
- NEW WALL

KAPPE ARCHITECTS

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TEL: 415.457.7801 FAX: 415.457.7885

## CORTE MADERA TOWN HALL

300 TAMALPAIS DRIVE  
CORTE MADERA, CA 94925



AP #:

Project No.: 19.02  
Drawn By: MH  
Checked By: RK  
Issued Date: 09-05-2019

Revision No. Date

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Sheet Title:

PROPOSED EAST AND WEST ELEVATIONS

Scale: AS NOTED

Sheet No:

A3.1

# Attachment B

---

California Emissions Estimator Model Results

## Corte Madera Townhall - Marin County, Winter

## Corte Madera Townhall

### Marin County, Winter

## 1.0 Project Characteristics

---

### 1.1 Land Usage

| Land Uses                        | Size | Metric   | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|------|----------|-------------|--------------------|------------|
| Government Office Building       | 1.00 | 1000sqft | 0.02        | 10,500.00          | 0          |
| Unenclosed Parking with Elevator | 6.00 | Space    | 0.05        | 2,400.00           | 0          |

### 1.2 Other Project Characteristics

|                             |                                |                             |       |                             |       |
|-----------------------------|--------------------------------|-----------------------------|-------|-----------------------------|-------|
| Urbanization                | Urban                          | Wind Speed (m/s)            | 2.2   | Precipitation Freq (Days)   | 69    |
| Climate Zone                | 5                              |                             |       | Operational Year            | 2022  |
| Utility Company             | Pacific Gas & Electric Company |                             |       |                             |       |
| CO2 Intensity<br>(lb/MW hr) | 641.35                         | CH4 Intensity<br>(lb/MW hr) | 0.029 | N2O Intensity<br>(lb/MW hr) | 0.006 |

### 1.3 User Entered Comments & Non-Default Data



## Corte Madera Townhall - Marin County, Winter

Project Characteristics -

Land Use - From PD

Construction Phase - Re-coating throughout renovation

Extended phases accordingly based on information provided by applicant

Demolition -

Grading - Information provided by applicant

Vehicle Trips - Email- adjusted for 6 new daily trips (12 total)

Area Coating - BAAQMD reg 8 rule 3

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation - BAAQMD reg 8 rule 3

| Table Name           | Column Name                     | Default Value | New Value |
|----------------------|---------------------------------|---------------|-----------|
| tblAreaCoating       | Area_EF_Nonresidential_Exterior | 150           | 100       |
| tblAreaCoating       | Area_EF_Nonresidential_Interior | 100           | 50        |
| tblAreaCoating       | Area_EF_Parking                 | 150           | 100       |
| tblAreaCoating       | Area_EF_Residential_Exterior    | 150           | 100       |
| tblAreaCoating       | Area_EF_Residential_Interior    | 100           | 50        |
| tblAreaMitigation    | UseLowVOCPaintParkingCheck      | False         | True      |
| tblConstructionPhase | NumDays                         | 5.00          | 75.00     |
| tblConstructionPhase | NumDays                         | 100.00        | 130.00    |
| tblConstructionPhase | NumDays                         | 10.00         | 13.00     |
| tblConstructionPhase | NumDays                         | 2.00          | 5.00      |
| tblConstructionPhase | NumDays                         | 5.00          | 7.00      |
| tblConstructionPhase | NumDays                         | 1.00          | 5.00      |
| tblGrading           | AcresOfGrading                  | 2.50          | 0.50      |
| tblLandUse           | LandUseSquareFeet               | 1,000.00      | 10,500.00 |
| tblVehicleTrips      | WD_TR                           | 68.93         | 80.93     |

## Corte Madera Townhall - Marin County, Winter

**2.0 Emissions Summary****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

|         | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2021    | 2.4928 | 9.7227 | 9.3287 | 0.0157 | 0.9931        | 0.5424       | 1.4044     | 0.4356         | 0.5065        | 0.8247      | 0.0000   | 1,545.3050 | 1,545.3050 | 0.3797 | 0.0000 | 1,551.1734 |
| Maximum | 2.4928 | 9.7227 | 9.3287 | 0.0157 | 0.9931        | 0.5424       | 1.4044     | 0.4356         | 0.5065        | 0.8247      | 0.0000   | 1,545.3050 | 1,545.3050 | 0.3797 | 0.0000 | 1,551.1734 |

**Mitigated Construction**

|         | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2021    | 2.4928 | 9.7227 | 9.3287 | 0.0157 | 0.5297        | 0.5424       | 0.9410     | 0.2080         | 0.5065        | 0.5971      | 0.0000   | 1,545.3049 | 1,545.3049 | 0.3797 | 0.0000 | 1,551.1734 |
| Maximum | 2.4928 | 9.7227 | 9.3287 | 0.0157 | 0.5297        | 0.5424       | 0.9410     | 0.2080         | 0.5065        | 0.5971      | 0.0000   | 1,545.3049 | 1,545.3049 | 0.3797 | 0.0000 | 1,551.1734 |

## Corte Madera Townhall - Marin County, Winter

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 46.66         | 0.00         | 33.00      | 52.25          | 0.00          | 27.60       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

## Corte Madera Townhall - Marin County, Winter

**2.2 Overall Operational****Unmitigated Operational**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |                    |                 |
| Area         | 0.2425        | 1.0000e-005   | 7.2000e-004   | 0.0000             |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        |          | 1.5300e-003     | 1.5300e-003     | 0.0000        |                    | 1.6300e-003     |
| Energy       | 6.0000e-003   | 0.0545        | 0.0458        | 3.3000e-004        |               | 4.1400e-003        | 4.1400e-003   |                | 4.1400e-003        | 4.1400e-003   |          | 65.4198         | 65.4198         | 1.2500e-003   | 1.2000e-003        | 65.8086         |
| Mobile       | 0.0994        | 0.3090        | 1.0278        | 3.0600e-003        | 0.2941        | 3.2400e-003        | 0.2974        | 0.0786         | 3.0300e-003        | 0.0817        |          | 307.5821        | 307.5821        | 0.0112        |                    | 307.8616        |
| <b>Total</b> | <b>0.3478</b> | <b>0.3636</b> | <b>1.0743</b> | <b>3.3900e-003</b> | <b>0.2941</b> | <b>7.3800e-003</b> | <b>0.3015</b> | <b>0.0786</b>  | <b>7.1700e-003</b> | <b>0.0858</b> |          | <b>373.0035</b> | <b>373.0035</b> | <b>0.0124</b> | <b>1.2000e-003</b> | <b>373.6718</b> |

**Mitigated Operational**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |                    |                 |
| Area         | 0.2425        | 1.0000e-005   | 7.2000e-004   | 0.0000             |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        |          | 1.5300e-003     | 1.5300e-003     | 0.0000        |                    | 1.6300e-003     |
| Energy       | 6.0000e-003   | 0.0545        | 0.0458        | 3.3000e-004        |               | 4.1400e-003        | 4.1400e-003   |                | 4.1400e-003        | 4.1400e-003   |          | 65.4198         | 65.4198         | 1.2500e-003   | 1.2000e-003        | 65.8086         |
| Mobile       | 0.0994        | 0.3090        | 1.0278        | 3.0600e-003        | 0.2941        | 3.2400e-003        | 0.2974        | 0.0786         | 3.0300e-003        | 0.0817        |          | 307.5821        | 307.5821        | 0.0112        |                    | 307.8616        |
| <b>Total</b> | <b>0.3478</b> | <b>0.3636</b> | <b>1.0743</b> | <b>3.3900e-003</b> | <b>0.2941</b> | <b>7.3800e-003</b> | <b>0.3015</b> | <b>0.0786</b>  | <b>7.1700e-003</b> | <b>0.0858</b> |          | <b>373.0035</b> | <b>373.0035</b> | <b>0.0124</b> | <b>1.2000e-003</b> | <b>373.6718</b> |

## Corte Madera Townhall - Marin County, Summer

## Corte Madera Townhall

### Marin County, Summer

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses                        | Size | Metric   | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|------|----------|-------------|--------------------|------------|
| Government Office Building       | 1.00 | 1000sqft | 0.02        | 10,500.00          | 0          |
| Unenclosed Parking with Elevator | 6.00 | Space    | 0.05        | 2,400.00           | 0          |

### 1.2 Other Project Characteristics

|                             |                                |                             |       |                             |       |
|-----------------------------|--------------------------------|-----------------------------|-------|-----------------------------|-------|
| Urbanization                | Urban                          | Wind Speed (m/s)            | 2.2   | Precipitation Freq (Days)   | 69    |
| Climate Zone                | 5                              |                             |       | Operational Year            | 2022  |
| Utility Company             | Pacific Gas & Electric Company |                             |       |                             |       |
| CO2 Intensity<br>(lb/MW hr) | 641.35                         | CH4 Intensity<br>(lb/MW hr) | 0.029 | N2O Intensity<br>(lb/MW hr) | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

## Corte Madera Townhall - Marin County, Summer

Project Characteristics -

Land Use - From PD

Construction Phase - Re-coating throughout renovation

Extended phases accordingly based on information provided by applicant

Demolition -

Grading - Information provided by applicant

Vehicle Trips - Email- adjusted for 6 new daily trips (12 total)

Area Coating - BAAQMD reg 8 rule 3

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation - BAAQMD reg 8 rule 3

| Table Name           | Column Name                     | Default Value | New Value |
|----------------------|---------------------------------|---------------|-----------|
| tblAreaCoating       | Area_EF_Nonresidential_Exterior | 150           | 100       |
| tblAreaCoating       | Area_EF_Nonresidential_Interior | 100           | 50        |
| tblAreaCoating       | Area_EF_Parking                 | 150           | 100       |
| tblAreaCoating       | Area_EF_Residential_Exterior    | 150           | 100       |
| tblAreaCoating       | Area_EF_Residential_Interior    | 100           | 50        |
| tblAreaMitigation    | UseLowVOCPaintParkingCheck      | False         | True      |
| tblConstructionPhase | NumDays                         | 5.00          | 75.00     |
| tblConstructionPhase | NumDays                         | 100.00        | 130.00    |
| tblConstructionPhase | NumDays                         | 10.00         | 13.00     |
| tblConstructionPhase | NumDays                         | 2.00          | 5.00      |
| tblConstructionPhase | NumDays                         | 5.00          | 7.00      |
| tblConstructionPhase | NumDays                         | 1.00          | 5.00      |
| tblGrading           | AcresOfGrading                  | 2.50          | 0.50      |
| tblLandUse           | LandUseSquareFeet               | 1,000.00      | 10,500.00 |
| tblVehicleTrips      | WD_TR                           | 68.93         | 80.93     |

## Corte Madera Townhall - Marin County, Summer

**2.0 Emissions Summary****2.1 Overall Construction (Maximum Daily Emission)****Unmitigated Construction**

|         | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2021    | 2.4910 | 9.7179 | 9.3518 | 0.0158 | 0.9931        | 0.5424       | 1.4043     | 0.4356         | 0.5065        | 0.8247      | 0.0000   | 1,555.9617 | 1,555.9617 | 0.3796 | 0.0000 | 1,561.8219 |
| Maximum | 2.4910 | 9.7179 | 9.3518 | 0.0158 | 0.9931        | 0.5424       | 1.4043     | 0.4356         | 0.5065        | 0.8247      | 0.0000   | 1,555.9617 | 1,555.9617 | 0.3796 | 0.0000 | 1,561.8219 |

**Mitigated Construction**

|         | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2021    | 2.4910 | 9.7179 | 9.3518 | 0.0158 | 0.5297        | 0.5424       | 0.9410     | 0.2080         | 0.5065        | 0.5971      | 0.0000   | 1,555.9617 | 1,555.9617 | 0.3796 | 0.0000 | 1,561.8219 |
| Maximum | 2.4910 | 9.7179 | 9.3518 | 0.0158 | 0.5297        | 0.5424       | 0.9410     | 0.2080         | 0.5065        | 0.5971      | 0.0000   | 1,555.9617 | 1,555.9617 | 0.3796 | 0.0000 | 1,561.8219 |



## Corte Madera Townhall - Marin County, Summer

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 46.66         | 0.00         | 33.00      | 52.25          | 0.00          | 27.60       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

## Corte Madera Townhall - Marin County, Summer

**2.2 Overall Operational****Unmitigated Operational**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |                    |                 |
| Area         | 0.2425        | 1.0000e-005   | 7.2000e-004   | 0.0000             |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        |          | 1.5300e-003     | 1.5300e-003     | 0.0000        |                    | 1.6300e-003     |
| Energy       | 6.0000e-003   | 0.0545        | 0.0458        | 3.3000e-004        |               | 4.1400e-003        | 4.1400e-003   |                | 4.1400e-003        | 4.1400e-003   |          | 65.4198         | 65.4198         | 1.2500e-003   | 1.2000e-003        | 65.8086         |
| Mobile       | 0.1151        | 0.2886        | 0.9841        | 3.2600e-003        | 0.2941        | 3.2200e-003        | 0.2973        | 0.0786         | 3.0100e-003        | 0.0817        |          | 328.4759        | 328.4759        | 0.0110        |                    | 328.7500        |
| <b>Total</b> | <b>0.3636</b> | <b>0.3431</b> | <b>1.0306</b> | <b>3.5900e-003</b> | <b>0.2941</b> | <b>7.3600e-003</b> | <b>0.3015</b> | <b>0.0786</b>  | <b>7.1500e-003</b> | <b>0.0858</b> |          | <b>393.8973</b> | <b>393.8973</b> | <b>0.0122</b> | <b>1.2000e-003</b> | <b>394.5602</b> |

**Mitigated Operational**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|--------------------|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |                    |                 |
| Area         | 0.2425        | 1.0000e-005   | 7.2000e-004   | 0.0000             |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        |          | 1.5300e-003     | 1.5300e-003     | 0.0000        |                    | 1.6300e-003     |
| Energy       | 6.0000e-003   | 0.0545        | 0.0458        | 3.3000e-004        |               | 4.1400e-003        | 4.1400e-003   |                | 4.1400e-003        | 4.1400e-003   |          | 65.4198         | 65.4198         | 1.2500e-003   | 1.2000e-003        | 65.8086         |
| Mobile       | 0.1151        | 0.2886        | 0.9841        | 3.2600e-003        | 0.2941        | 3.2200e-003        | 0.2973        | 0.0786         | 3.0100e-003        | 0.0817        |          | 328.4759        | 328.4759        | 0.0110        |                    | 328.7500        |
| <b>Total</b> | <b>0.3636</b> | <b>0.3431</b> | <b>1.0306</b> | <b>3.5900e-003</b> | <b>0.2941</b> | <b>7.3600e-003</b> | <b>0.3015</b> | <b>0.0786</b>  | <b>7.1500e-003</b> | <b>0.0858</b> |          | <b>393.8973</b> | <b>393.8973</b> | <b>0.0122</b> | <b>1.2000e-003</b> | <b>394.5602</b> |

## Corte Madera Townhall - Marin County, Summer

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

### 3.0 Construction Detail

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#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/4/2021   | 1/20/2021 | 5             | 13       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/21/2021  | 1/27/2021 | 5             | 5        |                   |
| 3            | Grading               | Grading               | 1/28/2021  | 2/3/2021  | 5             | 5        |                   |
| 4            | Building Construction | Building Construction | 2/4/2021   | 8/4/2021  | 5             | 130      |                   |
| 5            | Architectural Coating | Architectural Coating | 5/10/2021  | 8/20/2021 | 5             | 75       |                   |
| 6            | Paving                | Paving                | 8/5/2021   | 8/13/2021 | 5             | 7        |                   |

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 15,750; Non-Residential Outdoor: 5,250; Striped Parking Area: 144 (Architectural Coating – sqft)

#### OffRoad Equipment

## Corte Madera Townhall - Marin County, Summer

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Grading               | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |

Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 10.00              | 0.00               | 51.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 2                       | 5.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 5                       | 4.00               | 2.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## Corte Madera Townhall - Marin County, Summer

**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      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |               |               |               | 0.8425        | 0.0000        | 0.8425        | 0.1276         | 0.0000        | 0.1276        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 0.7965        | 7.2530        | 7.5691        | 0.0120        |               | 0.4073        | 0.4073        |                | 0.3886        | 0.3886        |          | 1,147.433<br>8         | 1,147.433<br>8         | 0.2138        |     | 1,152.779<br>7         |
| <b>Total</b>  | <b>0.7965</b> | <b>7.2530</b> | <b>7.5691</b> | <b>0.0120</b> | <b>0.8425</b> | <b>0.4073</b> | <b>1.2499</b> | <b>0.1276</b>  | <b>0.3886</b> | <b>0.5162</b> |          | <b>1,147.433<br/>8</b> | <b>1,147.433<br/>8</b> | <b>0.2138</b> |     | <b>1,152.779<br/>7</b> |

## Corte Madera Townhall - Marin County, Summer

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0308        | 1.0339        | 0.3060        | 3.0400e-003        | 0.0684        | 3.3600e-003        | 0.0718        | 0.0188         | 3.2100e-003        | 0.0220        |          | 328.1256        | 328.1256        | 0.0188        |     | 328.5960        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.0337        | 0.0188        | 0.2339        | 8.1000e-004        | 0.0822        | 5.2000e-004        | 0.0827        | 0.0218         | 4.8000e-004        | 0.0223        |          | 80.4023         | 80.4023         | 1.7500e-003   |     | 80.4461         |
| <b>Total</b> | <b>0.0644</b> | <b>1.0526</b> | <b>0.5399</b> | <b>3.8500e-003</b> | <b>0.1506</b> | <b>3.8800e-003</b> | <b>0.1545</b> | <b>0.0405</b>  | <b>3.6900e-003</b> | <b>0.0442</b> |          | <b>408.5279</b> | <b>408.5279</b> | <b>0.0206</b> |     | <b>409.0421</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 0.3791        | 0.0000        | 0.3791        | 0.0574         | 0.0000        | 0.0574        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7965        | 7.2530        | 7.5691        | 0.0120        |               | 0.4073        | 0.4073        |                | 0.3886        | 0.3886        | 0.0000        | 1,147.4338        | 1,147.4338        | 0.2138        |     | 1,152.7797        |
| <b>Total</b>  | <b>0.7965</b> | <b>7.2530</b> | <b>7.5691</b> | <b>0.0120</b> | <b>0.3791</b> | <b>0.4073</b> | <b>0.7865</b> | <b>0.0574</b>  | <b>0.3886</b> | <b>0.4460</b> | <b>0.0000</b> | <b>1,147.4338</b> | <b>1,147.4338</b> | <b>0.2138</b> |     | <b>1,152.7797</b> |

## Corte Madera Townhall - Marin County, Summer

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0308        | 1.0339        | 0.3060        | 3.0400e-003        | 0.0684        | 3.3600e-003        | 0.0718        | 0.0188         | 3.2100e-003        | 0.0220        |          | 328.1256        | 328.1256        | 0.0188        |     | 328.5960        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.0337        | 0.0188        | 0.2339        | 8.1000e-004        | 0.0822        | 5.2000e-004        | 0.0827        | 0.0218         | 4.8000e-004        | 0.0223        |          | 80.4023         | 80.4023         | 1.7500e-003   |     | 80.4461         |
| <b>Total</b> | <b>0.0644</b> | <b>1.0526</b> | <b>0.5399</b> | <b>3.8500e-003</b> | <b>0.1506</b> | <b>3.8800e-003</b> | <b>0.1545</b> | <b>0.0405</b>  | <b>3.6900e-003</b> | <b>0.0442</b> |          | <b>408.5279</b> | <b>408.5279</b> | <b>0.0206</b> |     | <b>409.0421</b> |

**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      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.1061        | 0.0000        | 0.1061        | 0.0115         | 0.0000        | 0.0115        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.6403        | 7.8204        | 4.0274        | 9.7300e-003        |               | 0.2995        | 0.2995        |                | 0.2755        | 0.2755        |          | 942.5842        | 942.5842        | 0.3049        |     | 950.2055        |
| <b>Total</b>  | <b>0.6403</b> | <b>7.8204</b> | <b>4.0274</b> | <b>9.7300e-003</b> | <b>0.1061</b> | <b>0.2995</b> | <b>0.4055</b> | <b>0.0115</b>  | <b>0.2755</b> | <b>0.2870</b> |          | <b>942.5842</b> | <b>942.5842</b> | <b>0.3049</b> |     | <b>950.2055</b> |

## Corte Madera Townhall - Marin County, Summer

**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     | lb/day        |                    |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0168        | 9.3900e-003        | 0.1170        | 4.0000e-004        | 0.0411        | 2.6000e-004        | 0.0413        | 0.0109         | 2.4000e-004        | 0.0111        |          | 40.2012        | 40.2012        | 8.8000e-004        |     | 40.2231        |
| <b>Total</b> | <b>0.0168</b> | <b>9.3900e-003</b> | <b>0.1170</b> | <b>4.0000e-004</b> | <b>0.0411</b> | <b>2.6000e-004</b> | <b>0.0413</b> | <b>0.0109</b>  | <b>2.4000e-004</b> | <b>0.0111</b> |          | <b>40.2012</b> | <b>40.2012</b> | <b>8.8000e-004</b> |     | <b>40.2231</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                    |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.0477        | 0.0000        | 0.0477        | 5.1500e-003        | 0.0000        | 5.1500e-003   |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.6403        | 7.8204        | 4.0274        | 9.7300e-003        |               | 0.2995        | 0.2995        |                    | 0.2755        | 0.2755        | 0.0000        | 942.5842        | 942.5842        | 0.3049        |     | 950.2055        |
| <b>Total</b>  | <b>0.6403</b> | <b>7.8204</b> | <b>4.0274</b> | <b>9.7300e-003</b> | <b>0.0477</b> | <b>0.2995</b> | <b>0.3472</b> | <b>5.1500e-003</b> | <b>0.2755</b> | <b>0.2807</b> | <b>0.0000</b> | <b>942.5842</b> | <b>942.5842</b> | <b>0.3049</b> |     | <b>950.2055</b> |



## Corte Madera Townhall - Marin County, Summer

**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     | lb/day        |                    |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0168        | 9.3900e-003        | 0.1170        | 4.0000e-004        | 0.0411        | 2.6000e-004        | 0.0413        | 0.0109         | 2.4000e-004        | 0.0111        |          | 40.2012        | 40.2012        | 8.8000e-004        |     | 40.2231        |
| <b>Total</b> | <b>0.0168</b> | <b>9.3900e-003</b> | <b>0.1170</b> | <b>4.0000e-004</b> | <b>0.0411</b> | <b>2.6000e-004</b> | <b>0.0413</b> | <b>0.0109</b>  | <b>2.4000e-004</b> | <b>0.0111</b> |          | <b>40.2012</b> | <b>40.2012</b> | <b>8.8000e-004</b> |     | <b>40.2231</b> |

**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      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 0.7528        | 0.0000        | 0.7528        | 0.4138         | 0.0000        | 0.4138        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7965        | 7.2530        | 7.5691        | 0.0120        |               | 0.4073        | 0.4073        |                | 0.3886        | 0.3886        |          | 1,147.4338        | 1,147.4338        | 0.2138        |     | 1,152.7797        |
| <b>Total</b>  | <b>0.7965</b> | <b>7.2530</b> | <b>7.5691</b> | <b>0.0120</b> | <b>0.7528</b> | <b>0.4073</b> | <b>1.1601</b> | <b>0.4138</b>  | <b>0.3886</b> | <b>0.8024</b> |          | <b>1,147.4338</b> | <b>1,147.4338</b> | <b>0.2138</b> |     | <b>1,152.7797</b> |

## Corte Madera Townhall - Marin County, Summer

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0337        | 0.0188        | 0.2339        | 8.1000e-004        | 0.0822        | 5.2000e-004        | 0.0827        | 0.0218         | 4.8000e-004        | 0.0223        |          | 80.4023        | 80.4023        | 1.7500e-003        |     | 80.4461        |
| <b>Total</b> | <b>0.0337</b> | <b>0.0188</b> | <b>0.2339</b> | <b>8.1000e-004</b> | <b>0.0822</b> | <b>5.2000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.8000e-004</b> | <b>0.0223</b> |          | <b>80.4023</b> | <b>80.4023</b> | <b>1.7500e-003</b> |     | <b>80.4461</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 0.3387        | 0.0000        | 0.3387        | 0.1862         | 0.0000        | 0.1862        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7965        | 7.2530        | 7.5691        | 0.0120        |               | 0.4073        | 0.4073        |                | 0.3886        | 0.3886        | 0.0000        | 1,147.4338        | 1,147.4338        | 0.2138        |     | 1,152.7797        |
| <b>Total</b>  | <b>0.7965</b> | <b>7.2530</b> | <b>7.5691</b> | <b>0.0120</b> | <b>0.3387</b> | <b>0.4073</b> | <b>0.7461</b> | <b>0.1862</b>  | <b>0.3886</b> | <b>0.5748</b> | <b>0.0000</b> | <b>1,147.4338</b> | <b>1,147.4338</b> | <b>0.2138</b> |     | <b>1,152.7797</b> |

## Corte Madera Townhall - Marin County, Summer

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0337        | 0.0188        | 0.2339        | 8.1000e-004        | 0.0822        | 5.2000e-004        | 0.0827        | 0.0218         | 4.8000e-004        | 0.0223        |          | 80.4023        | 80.4023        | 1.7500e-003        |     | 80.4461        |
| <b>Total</b> | <b>0.0337</b> | <b>0.0188</b> | <b>0.2339</b> | <b>8.1000e-004</b> | <b>0.0822</b> | <b>5.2000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.8000e-004</b> | <b>0.0223</b> |          | <b>80.4023</b> | <b>80.4023</b> | <b>1.7500e-003</b> |     | <b>80.4461</b> |

**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     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 0.7750        | 7.9850        | 7.2637        | 0.0114        |               | 0.4475        | 0.4475        |                | 0.4117        | 0.4117        |          | 1,103.2158        | 1,103.2158        | 0.3568        |     | 1,112.1358        |
| <b>Total</b> | <b>0.7750</b> | <b>7.9850</b> | <b>7.2637</b> | <b>0.0114</b> |               | <b>0.4475</b> | <b>0.4475</b> |                | <b>0.4117</b> | <b>0.4117</b> |          | <b>1,103.2158</b> | <b>1,103.2158</b> | <b>0.3568</b> |     | <b>1,112.1358</b> |

## Corte Madera Townhall - Marin County, Summer

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 6.9300e-003   | 0.1967        | 0.0679        | 5.3000e-004        | 0.0135        | 4.7000e-004        | 0.0140        | 3.8900e-003    | 4.4000e-004        | 4.3400e-003   |          | 56.6033        | 56.6033        | 2.6300e-003        |     | 56.6690        |
| Worker       | 0.0135        | 7.5100e-003   | 0.0936        | 3.2000e-004        | 0.0329        | 2.1000e-004        | 0.0331        | 8.7200e-003    | 1.9000e-004        | 8.9100e-003   |          | 32.1609        | 32.1609        | 7.0000e-004        |     | 32.1785        |
| <b>Total</b> | <b>0.0204</b> | <b>0.2042</b> | <b>0.1615</b> | <b>8.5000e-004</b> | <b>0.0464</b> | <b>6.8000e-004</b> | <b>0.0471</b> | <b>0.0126</b>  | <b>6.3000e-004</b> | <b>0.0133</b> |          | <b>88.7642</b> | <b>88.7642</b> | <b>3.3300e-003</b> |     | <b>88.8475</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 0.7750        | 7.9850        | 7.2637        | 0.0114        |               | 0.4475        | 0.4475        |                | 0.4117        | 0.4117        | 0.0000        | 1,103.2158        | 1,103.2158        | 0.3568        |     | 1,112.1358        |
| <b>Total</b> | <b>0.7750</b> | <b>7.9850</b> | <b>7.2637</b> | <b>0.0114</b> |               | <b>0.4475</b> | <b>0.4475</b> |                | <b>0.4117</b> | <b>0.4117</b> | <b>0.0000</b> | <b>1,103.2158</b> | <b>1,103.2158</b> | <b>0.3568</b> |     | <b>1,112.1358</b> |

## Corte Madera Townhall - Marin County, Summer

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 6.9300e-003   | 0.1967        | 0.0679        | 5.3000e-004        | 0.0135        | 4.7000e-004        | 0.0140        | 3.8900e-003    | 4.4000e-004        | 4.3400e-003   |          | 56.6033        | 56.6033        | 2.6300e-003        |     | 56.6690        |
| Worker       | 0.0135        | 7.5100e-003   | 0.0936        | 3.2000e-004        | 0.0329        | 2.1000e-004        | 0.0331        | 8.7200e-003    | 1.9000e-004        | 8.9100e-003   |          | 32.1609        | 32.1609        | 7.0000e-004        |     | 32.1785        |
| <b>Total</b> | <b>0.0204</b> | <b>0.2042</b> | <b>0.1615</b> | <b>8.5000e-004</b> | <b>0.0464</b> | <b>6.8000e-004</b> | <b>0.0471</b> | <b>0.0126</b>  | <b>6.3000e-004</b> | <b>0.0133</b> |          | <b>88.7642</b> | <b>88.7642</b> | <b>3.3300e-003</b> |     | <b>88.8475</b> |

**3.6 Architectural Coating - 2021****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 1.4734        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189        | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        |          | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>1.6923</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

## Corte Madera Townhall - Marin County, Summer

**3.6 Architectural Coating - 2021****Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 3.3700e-003        | 1.8800e-003        | 0.0234        | 8.0000e-005        | 8.2100e-003        | 5.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 8.0402        | 8.0402        | 1.8000e-004        |     | 8.0446        |
| <b>Total</b> | <b>3.3700e-003</b> | <b>1.8800e-003</b> | <b>0.0234</b> | <b>8.0000e-005</b> | <b>8.2100e-003</b> | <b>5.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>8.0402</b> | <b>8.0402</b> | <b>1.8000e-004</b> |     | <b>8.0446</b> |

**Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 1.4734        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189        | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        | 0.0000        | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>1.6923</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

## Corte Madera Townhall - Marin County, Summer

**3.6 Architectural Coating - 2021****Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 3.3700e-003        | 1.8800e-003        | 0.0234        | 8.0000e-005        | 8.2100e-003        | 5.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 8.0402        | 8.0402        | 1.8000e-004        |     | 8.0446        |
| <b>Total</b> | <b>3.3700e-003</b> | <b>1.8800e-003</b> | <b>0.0234</b> | <b>8.0000e-005</b> | <b>8.2100e-003</b> | <b>5.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>8.0402</b> | <b>8.0402</b> | <b>1.8000e-004</b> |     | <b>8.0446</b> |

**3.7 Paving - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 0.7214        | 6.7178        | 7.0899        | 0.0113        |               | 0.3534        | 0.3534        |                | 0.3286        | 0.3286        |          | 1,035.3425        | 1,035.3425        | 0.3016        |     | 1,042.8818        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.7214</b> | <b>6.7178</b> | <b>7.0899</b> | <b>0.0113</b> |               | <b>0.3534</b> | <b>0.3534</b> |                | <b>0.3286</b> | <b>0.3286</b> |          | <b>1,035.3425</b> | <b>1,035.3425</b> | <b>0.3016</b> |     | <b>1,042.8818</b> |

## Corte Madera Townhall - Marin County, Summer

**3.7 Paving - 2021****Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0606        | 0.0338        | 0.4210        | 1.4500e-003        | 0.1479        | 9.4000e-004        | 0.1488        | 0.0392         | 8.7000e-004        | 0.0401        |          | 144.7241        | 144.7241        | 3.1600e-003        |     | 144.8030        |
| <b>Total</b> | <b>0.0606</b> | <b>0.0338</b> | <b>0.4210</b> | <b>1.4500e-003</b> | <b>0.1479</b> | <b>9.4000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.7000e-004</b> | <b>0.0401</b> |          | <b>144.7241</b> | <b>144.7241</b> | <b>3.1600e-003</b> |     | <b>144.8030</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 0.7214        | 6.7178        | 7.0899        | 0.0113        |               | 0.3534        | 0.3534        |                | 0.3286        | 0.3286        | 0.0000        | 1,035.3425        | 1,035.3425        | 0.3016        |     | 1,042.8818        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.7214</b> | <b>6.7178</b> | <b>7.0899</b> | <b>0.0113</b> |               | <b>0.3534</b> | <b>0.3534</b> |                | <b>0.3286</b> | <b>0.3286</b> | <b>0.0000</b> | <b>1,035.3425</b> | <b>1,035.3425</b> | <b>0.3016</b> |     | <b>1,042.8818</b> |



## Corte Madera Townhall - Marin County, Summer

**3.7 Paving - 2021****Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0606        | 0.0338        | 0.4210        | 1.4500e-003        | 0.1479        | 9.4000e-004        | 0.1488        | 0.0392         | 8.7000e-004        | 0.0401        |          | 144.7241        | 144.7241        | 3.1600e-003        |     | 144.8030        |
| <b>Total</b> | <b>0.0606</b> | <b>0.0338</b> | <b>0.4210</b> | <b>1.4500e-003</b> | <b>0.1479</b> | <b>9.4000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.7000e-004</b> | <b>0.0401</b> |          | <b>144.7241</b> | <b>144.7241</b> | <b>3.1600e-003</b> |     | <b>144.8030</b> |

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

## Corte Madera Townhall - Marin County, Summer

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |     |          |
| Mitigated   | 0.1151 | 0.2886 | 0.9841 | 3.2600e-003 | 0.2941        | 3.2200e-003  | 0.2973     | 0.0786         | 3.0100e-003   | 0.0817      |          | 328.4759  | 328.4759  | 0.0110 |     | 328.7500 |
| Unmitigated | 0.1151 | 0.2886 | 0.9841 | 3.2600e-003 | 0.2941        | 3.2200e-003  | 0.2973     | 0.0786         | 3.0100e-003   | 0.0817      |          | 328.4759  | 328.4759  | 0.0110 |     | 328.7500 |

## 4.2 Trip Summary Information

| Land Use                         | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|----------------------------------|-------------------------|----------|--------|-------------|------------|
|                                  | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Government Office Building       | 80.93                   | 0.00     | 0.00   | 99,132      | 99,132     |
| Unenclosed Parking with Elevator | 0.00                    | 0.00     | 0.00   |             |            |
| Total                            | 80.93                   | 0.00     | 0.00   | 99,132      | 99,132     |

## 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 |
| Government Office Building | 9.50       | 7.30       | 7.30        | 33.00      | 62.00      | 5.00        | 50             | 34       | 16      |
| Unenclosed Parking with    | 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       |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Government Office Building       | 0.592917 | 0.040807 | 0.199317 | 0.111088 | 0.016573 | 0.005170 | 0.010431 | 0.011175 | 0.002033 | 0.003262 | 0.005795 | 0.000692 | 0.000740 |
| Unenclosed Parking with Elevator | 0.592917 | 0.040807 | 0.199317 | 0.111088 | 0.016573 | 0.005170 | 0.010431 | 0.011175 | 0.002033 | 0.003262 | 0.005795 | 0.000692 | 0.000740 |

## Corte Madera Townhall - Marin County, Summer

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 6.0000e-003 | 0.0545 | 0.0458 | 3.3000e-004 |               | 4.1400e-003  | 4.1400e-003 |                | 4.1400e-003   | 4.1400e-003 |          | 65.4198   | 65.4198   | 1.2500e-003 | 1.2000e-003 | 65.8086 |
| NaturalGas Unmitigated | 6.0000e-003 | 0.0545 | 0.0458 | 3.3000e-004 |               | 4.1400e-003  | 4.1400e-003 |                | 4.1400e-003   | 4.1400e-003 |          | 65.4198   | 65.4198   | 1.2500e-003 | 1.2000e-003 | 65.8086 |

## Corte Madera Townhall - Marin County, Summer

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

|                                  | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|----------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                         | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Government Office Building       | 556.068        | 6.0000e-003        | 0.0545        | 0.0458        | 3.3000e-004        |               | 4.1400e-003        | 4.1400e-003        |                | 4.1400e-003        | 4.1400e-003        |          | 65.4198        | 65.4198        | 1.2500e-003        | 1.2000e-003        | 65.8086        |
| Unenclosed 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         |
| <b>Total</b>                     |                | <b>6.0000e-003</b> | <b>0.0545</b> | <b>0.0458</b> | <b>3.3000e-004</b> |               | <b>4.1400e-003</b> | <b>4.1400e-003</b> |                | <b>4.1400e-003</b> | <b>4.1400e-003</b> |          | <b>65.4198</b> | <b>65.4198</b> | <b>1.2500e-003</b> | <b>1.2000e-003</b> | <b>65.8086</b> |

**Mitigated**

|                                  | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|----------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                         | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Government Office Building       | 0.556068       | 6.0000e-003        | 0.0545        | 0.0458        | 3.3000e-004        |               | 4.1400e-003        | 4.1400e-003        |                | 4.1400e-003        | 4.1400e-003        |          | 65.4198        | 65.4198        | 1.2500e-003        | 1.2000e-003        | 65.8086        |
| Unenclosed 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         |
| <b>Total</b>                     |                | <b>6.0000e-003</b> | <b>0.0545</b> | <b>0.0458</b> | <b>3.3000e-004</b> |               | <b>4.1400e-003</b> | <b>4.1400e-003</b> |                | <b>4.1400e-003</b> | <b>4.1400e-003</b> |          | <b>65.4198</b> | <b>65.4198</b> | <b>1.2500e-003</b> | <b>1.2000e-003</b> | <b>65.8086</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Corte Madera Townhall - Marin County, Summer

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

|             | ROG    | NOx         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O | CO2e        |
|-------------|--------|-------------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category    | lb/day |             |             |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated   | 0.2425 | 1.0000e-005 | 7.2000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 1.5300e-003 | 1.5300e-003 | 0.0000 |     | 1.6300e-003 |
| Unmitigated | 0.2425 | 1.0000e-005 | 7.2000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 1.5300e-003 | 1.5300e-003 | 0.0000 |     | 1.6300e-003 |

## Corte Madera Townhall - Marin County, Summer

**6.2 Area by SubCategory****Unmitigated**

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| SubCategory           | lb/day        |                    |                    |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Architectural Coating | 0.0169        |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Consumer Products     | 0.2256        |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Landscaping           | 7.0000e-005   | 1.0000e-005        | 7.2000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 1.5300e-003        | 1.5300e-003        | 0.0000        |     | 1.6300e-003        |
| <b>Total</b>          | <b>0.2425</b> | <b>1.0000e-005</b> | <b>7.2000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>1.5300e-003</b> | <b>1.5300e-003</b> | <b>0.0000</b> |     | <b>1.6300e-003</b> |

**Mitigated**

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| SubCategory           | lb/day        |                    |                    |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Architectural Coating | 0.0169        |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Consumer Products     | 0.2256        |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Landscaping           | 7.0000e-005   | 1.0000e-005        | 7.2000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 1.5300e-003        | 1.5300e-003        | 0.0000        |     | 1.6300e-003        |
| <b>Total</b>          | <b>0.2425</b> | <b>1.0000e-005</b> | <b>7.2000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>1.5300e-003</b> | <b>1.5300e-003</b> | <b>0.0000</b> |     | <b>1.6300e-003</b> |

**7.0 Water Detail**

## Corte Madera Townhall - Marin County, Summer

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**7.1 Mitigation Measures Water**

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**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**9.0 Operational Offroad**

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| 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 |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

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

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

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**11.0 Vegetation**

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## Corte Madera Townhall - Marin County, Annual

## Corte Madera Townhall

### Marin County, Annual

## 1.0 Project Characteristics

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### 1.1 Land Usage

| Land Uses                        | Size | Metric   | Lot Acreage | Floor Surface Area | Population |
|----------------------------------|------|----------|-------------|--------------------|------------|
| Government Office Building       | 1.00 | 1000sqft | 0.02        | 10,500.00          | 0          |
| Unenclosed Parking with Elevator | 6.00 | Space    | 0.05        | 2,400.00           | 0          |

### 1.2 Other Project Characteristics

|                             |                                |                             |       |                             |       |
|-----------------------------|--------------------------------|-----------------------------|-------|-----------------------------|-------|
| Urbanization                | Urban                          | Wind Speed (m/s)            | 2.2   | Precipitation Freq (Days)   | 69    |
| Climate Zone                | 5                              |                             |       | Operational Year            | 2022  |
| Utility Company             | Pacific Gas & Electric Company |                             |       |                             |       |
| CO2 Intensity<br>(lb/MW hr) | 641.35                         | CH4 Intensity<br>(lb/MW hr) | 0.029 | N2O Intensity<br>(lb/MW hr) | 0.006 |

### 1.3 User Entered Comments & Non-Default Data



## Corte Madera Townhall - Marin County, Annual

Project Characteristics -

Land Use - From PD

Construction Phase - Re-coating throughout renovation

Extended phases accordingly based on information provided by applicant

Demolition -

Grading - Information provided by applicant

Vehicle Trips - Email- adjusted for 6 new daily trips (12 total)

Area Coating - BAAQMD reg 8 rule 3

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Area Mitigation - BAAQMD reg 8 rule 3

| Table Name           | Column Name                     | Default Value | New Value |
|----------------------|---------------------------------|---------------|-----------|
| tblAreaCoating       | Area_EF_Nonresidential_Exterior | 150           | 100       |
| tblAreaCoating       | Area_EF_Nonresidential_Interior | 100           | 50        |
| tblAreaCoating       | Area_EF_Parking                 | 150           | 100       |
| tblAreaCoating       | Area_EF_Residential_Exterior    | 150           | 100       |
| tblAreaCoating       | Area_EF_Residential_Interior    | 100           | 50        |
| tblAreaMitigation    | UseLowVOCPaintParkingCheck      | False         | True      |
| tblConstructionPhase | NumDays                         | 5.00          | 75.00     |
| tblConstructionPhase | NumDays                         | 100.00        | 130.00    |
| tblConstructionPhase | NumDays                         | 10.00         | 13.00     |
| tblConstructionPhase | NumDays                         | 2.00          | 5.00      |
| tblConstructionPhase | NumDays                         | 5.00          | 7.00      |
| tblConstructionPhase | NumDays                         | 1.00          | 5.00      |
| tblGrading           | AcresOfGrading                  | 2.50          | 0.50      |
| tblLandUse           | LandUseSquareFeet               | 1,000.00      | 10,500.00 |
| tblVehicleTrips      | WD_TR                           | 68.93         | 80.93     |

## Corte Madera Townhall - Marin County, Annual

**2.0 Emissions Summary****2.1 Overall Construction****Unmitigated Construction**

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e    |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |         |
| 2021    | 0.1273  | 0.7055 | 0.6600 | 1.1100e-003 | 0.0126        | 0.0384       | 0.0509     | 3.2300e-003    | 0.0357        | 0.0389      | 0.0000   | 97.7918   | 97.7918   | 0.0254 | 0.0000 | 98.4276 |
| Maximum | 0.1273  | 0.7055 | 0.6600 | 1.1100e-003 | 0.0126        | 0.0384       | 0.0509     | 3.2300e-003    | 0.0357        | 0.0389      | 0.0000   | 97.7918   | 97.7918   | 0.0254 | 0.0000 | 98.4276 |

**Mitigated Construction**

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e    |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |         |
| 2021    | 0.1273  | 0.7055 | 0.6600 | 1.1100e-003 | 8.3600e-003   | 0.0384       | 0.0467     | 2.1900e-003    | 0.0357        | 0.0379      | 0.0000   | 97.7917   | 97.7917   | 0.0254 | 0.0000 | 98.4274 |
| Maximum | 0.1273  | 0.7055 | 0.6600 | 1.1100e-003 | 8.3600e-003   | 0.0384       | 0.0467     | 2.1900e-003    | 0.0357        | 0.0379      | 0.0000   | 97.7917   | 97.7917   | 0.0254 | 0.0000 | 98.4274 |

## Corte Madera Townhall - Marin County, Annual

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 33.39         | 0.00         | 8.25       | 32.20          | 0.00          | 2.67        | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date  | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|----------------------------------------------|--------------------------------------------|
| 1       | 1-4-2021   | 4-3-2021  | 0.2868                                       | 0.2868                                     |
| 2       | 4-4-2021   | 7-3-2021  | 0.3553                                       | 0.3553                                     |
| 3       | 7-4-2021   | 9-30-2021 | 0.1822                                       | 0.1822                                     |
|         |            | Highest   | 0.3553                                       | 0.3553                                     |

## 2.2 Overall Operational

Unmitigated Operational

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O                | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|---------------|----------------|----------------|---------------|--------------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |               | MT/yr         |                |                |               |                    |                |
| Area         | 0.0442        | 0.0000        | 6.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000        | 0.0000        | 1.3000e-004    | 1.3000e-004    | 0.0000        | 0.0000             | 1.3000e-004    |
| Energy       | 1.0900e-003   | 9.9500e-003   | 8.3600e-003   | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004   |                    | 7.6000e-004        | 7.6000e-004   | 0.0000        | 50.3065        | 50.3065        | 1.9900e-003   | 5.7000e-004        | 50.5256        |
| Mobile       | 0.0130        | 0.0392        | 0.1269        | 4.0000e-004        | 0.0367        | 4.2000e-004        | 0.0371        | 9.8400e-003        | 3.9000e-004        | 0.0102        | 0.0000        | 36.4499        | 36.4499        | 1.2900e-003   | 0.0000             | 36.4821        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000        | 0.1888        | 0.0000         | 0.1888         | 0.0112        | 0.0000             | 0.4677         |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000        | 0.0630        | 0.4367         | 0.4997         | 6.4900e-003   | 1.6000e-004        | 0.7088         |
| <b>Total</b> | <b>0.0583</b> | <b>0.0492</b> | <b>0.1353</b> | <b>4.6000e-004</b> | <b>0.0367</b> | <b>1.1800e-003</b> | <b>0.0379</b> | <b>9.8400e-003</b> | <b>1.1500e-003</b> | <b>0.0110</b> | <b>0.2518</b> | <b>87.1933</b> | <b>87.4451</b> | <b>0.0209</b> | <b>7.3000e-004</b> | <b>88.1843</b> |

## Corte Madera Townhall - Marin County, Annual

**2.2 Overall Operational****Mitigated Operational**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O                | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|---------------|----------------|----------------|---------------|--------------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |               | MT/yr         |                |                |               |                    |                |
| Area         | 0.0442        | 0.0000        | 6.0000e-005   | 0.0000             |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000        | 0.0000        | 1.3000e-004    | 1.3000e-004    | 0.0000        | 0.0000             | 1.3000e-004    |
| Energy       | 1.0900e-003   | 9.9500e-003   | 8.3600e-003   | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004   |                    | 7.6000e-004        | 7.6000e-004   | 0.0000        | 50.3065        | 50.3065        | 1.9900e-003   | 5.7000e-004        | 50.5256        |
| Mobile       | 0.0130        | 0.0392        | 0.1269        | 4.0000e-004        | 0.0367        | 4.2000e-004        | 0.0371        | 9.8400e-003        | 3.9000e-004        | 0.0102        | 0.0000        | 36.4499        | 36.4499        | 1.2900e-003   | 0.0000             | 36.4821        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000        | 0.1888        | 0.0000         | 0.1888         | 0.0112        | 0.0000             | 0.4677         |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                    | 0.0000             | 0.0000        | 0.0630        | 0.4367         | 0.4997         | 6.4900e-003   | 1.6000e-004        | 0.7088         |
| <b>Total</b> | <b>0.0583</b> | <b>0.0492</b> | <b>0.1353</b> | <b>4.6000e-004</b> | <b>0.0367</b> | <b>1.1800e-003</b> | <b>0.0379</b> | <b>9.8400e-003</b> | <b>1.1500e-003</b> | <b>0.0110</b> | <b>0.2518</b> | <b>87.1933</b> | <b>87.4451</b> | <b>0.0209</b> | <b>7.3000e-004</b> | <b>88.1843</b> |

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

**3.0 Construction Detail****Construction Phase**

## Corte Madera Townhall - Marin County, Annual

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/4/2021   | 1/20/2021 | 5             | 13       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/21/2021  | 1/27/2021 | 5             | 5        |                   |
| 3            | Grading               | Grading               | 1/28/2021  | 2/3/2021  | 5             | 5        |                   |
| 4            | Building Construction | Building Construction | 2/4/2021   | 8/4/2021  | 5             | 130      |                   |
| 5            | Architectural Coating | Architectural Coating | 5/10/2021  | 8/20/2021 | 5             | 75       |                   |
| 6            | Paving                | Paving                | 8/5/2021   | 8/13/2021 | 5             | 7        |                   |

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 15,750; Non-Residential Outdoor: 5,250; Striped Parking Area: 144 (Architectural Coating – sqft)

OffRoad Equipment

## Corte Madera Townhall - Marin County, Annual

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Grading               | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |

Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 10.00              | 0.00               | 51.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 2                       | 5.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 5                       | 4.00               | 2.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## Corte Madera Townhall - Marin County, Annual

**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         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 5.4800e-003        | 0.0000             | 5.4800e-003        | 8.3000e-004        | 0.0000             | 8.3000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 5.1800e-003        | 0.0471        | 0.0492        | 8.0000e-005        |                    | 2.6500e-003        | 2.6500e-003        |                    | 2.5300e-003        | 2.5300e-003        | 0.0000        | 6.7661        | 6.7661        | 1.2600e-003        | 0.0000        | 6.7976        |
| <b>Total</b>  | <b>5.1800e-003</b> | <b>0.0471</b> | <b>0.0492</b> | <b>8.0000e-005</b> | <b>5.4800e-003</b> | <b>2.6500e-003</b> | <b>8.1300e-003</b> | <b>8.3000e-004</b> | <b>2.5300e-003</b> | <b>3.3600e-003</b> | <b>0.0000</b> | <b>6.7661</b> | <b>6.7661</b> | <b>1.2600e-003</b> | <b>0.0000</b> | <b>6.7976</b> |

## Corte Madera Townhall - Marin County, Annual

**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      | 2.0000e-004        | 6.8800e-003        | 2.0300e-003        | 2.0000e-005        | 4.3000e-004        | 2.0000e-005        | 4.5000e-004        | 1.2000e-004        | 2.0000e-005        | 1.4000e-004        | 0.0000        | 1.9234        | 1.9234        | 1.1000e-004        | 0.0000        | 1.9262        |
| 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        | 1.4000e-004        | 1.4000e-003        | 0.0000             | 5.1000e-004        | 0.0000             | 5.2000e-004        | 1.4000e-004        | 0.0000             | 1.4000e-004        | 0.0000        | 0.4407        | 0.4407        | 1.0000e-005        | 0.0000        | 0.4410        |
| <b>Total</b> | <b>4.1000e-004</b> | <b>7.0200e-003</b> | <b>3.4300e-003</b> | <b>2.0000e-005</b> | <b>9.4000e-004</b> | <b>2.0000e-005</b> | <b>9.7000e-004</b> | <b>2.6000e-004</b> | <b>2.0000e-005</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>2.3641</b> | <b>2.3641</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>2.3672</b> |

**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 |                    |               |               |                    | 2.4600e-003        | 0.0000             | 2.4600e-003        | 3.7000e-004        | 0.0000             | 3.7000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 5.1800e-003        | 0.0471        | 0.0492        | 8.0000e-005        |                    | 2.6500e-003        | 2.6500e-003        |                    | 2.5300e-003        | 2.5300e-003        | 0.0000        | 6.7661        | 6.7661        | 1.2600e-003        | 0.0000        | 6.7976        |
| <b>Total</b>  | <b>5.1800e-003</b> | <b>0.0471</b> | <b>0.0492</b> | <b>8.0000e-005</b> | <b>2.4600e-003</b> | <b>2.6500e-003</b> | <b>5.1100e-003</b> | <b>3.7000e-004</b> | <b>2.5300e-003</b> | <b>2.9000e-003</b> | <b>0.0000</b> | <b>6.7661</b> | <b>6.7661</b> | <b>1.2600e-003</b> | <b>0.0000</b> | <b>6.7976</b> |



## Corte Madera Townhall - Marin County, Annual

**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      | 2.0000e-004        | 6.8800e-003        | 2.0300e-003        | 2.0000e-005        | 4.3000e-004        | 2.0000e-005        | 4.5000e-004        | 1.2000e-004        | 2.0000e-005        | 1.4000e-004        | 0.0000        | 1.9234        | 1.9234        | 1.1000e-004        | 0.0000        | 1.9262        |
| 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        | 1.4000e-004        | 1.4000e-003        | 0.0000             | 5.1000e-004        | 0.0000             | 5.2000e-004        | 1.4000e-004        | 0.0000             | 1.4000e-004        | 0.0000        | 0.4407        | 0.4407        | 1.0000e-005        | 0.0000        | 0.4410        |
| <b>Total</b> | <b>4.1000e-004</b> | <b>7.0200e-003</b> | <b>3.4300e-003</b> | <b>2.0000e-005</b> | <b>9.4000e-004</b> | <b>2.0000e-005</b> | <b>9.7000e-004</b> | <b>2.6000e-004</b> | <b>2.0000e-005</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>2.3641</b> | <b>2.3641</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>2.3672</b> |

**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 |                    |               |               |                    | 2.7000e-004        | 0.0000             | 2.7000e-004        | 3.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.6000e-003        | 0.0196        | 0.0101        | 2.0000e-005        |                    | 7.5000e-004        | 7.5000e-004        |                    | 6.9000e-004        | 6.9000e-004        | 0.0000        | 2.1377        | 2.1377        | 6.9000e-004        | 0.0000        | 2.1550        |
| <b>Total</b>  | <b>1.6000e-003</b> | <b>0.0196</b> | <b>0.0101</b> | <b>2.0000e-005</b> | <b>2.7000e-004</b> | <b>7.5000e-004</b> | <b>1.0200e-003</b> | <b>3.0000e-005</b> | <b>6.9000e-004</b> | <b>7.2000e-004</b> | <b>0.0000</b> | <b>2.1377</b> | <b>2.1377</b> | <b>6.9000e-004</b> | <b>0.0000</b> | <b>2.1550</b> |

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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        | 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       | 4.0000e-005        | 3.0000e-005        | 2.7000e-004        | 0.0000        | 1.0000e-004        | 0.0000        | 1.0000e-004        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 0.0000        | 0.0848        | 0.0848        | 0.0000        | 0.0000        | 0.0848        |
| <b>Total</b> | <b>4.0000e-005</b> | <b>3.0000e-005</b> | <b>2.7000e-004</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.0848</b> | <b>0.0848</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0848</b> |

**Mitigated Construction On-Site**

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 1.2000e-004        | 0.0000             | 1.2000e-004        | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.6000e-003        | 0.0196        | 0.0101        | 2.0000e-005        |                    | 7.5000e-004        | 7.5000e-004        |                    | 6.9000e-004        | 6.9000e-004        | 0.0000        | 2.1377        | 2.1377        | 6.9000e-004        | 0.0000        | 2.1550        |
| <b>Total</b>  | <b>1.6000e-003</b> | <b>0.0196</b> | <b>0.0101</b> | <b>2.0000e-005</b> | <b>1.2000e-004</b> | <b>7.5000e-004</b> | <b>8.7000e-004</b> | <b>1.0000e-005</b> | <b>6.9000e-004</b> | <b>7.0000e-004</b> | <b>0.0000</b> | <b>2.1377</b> | <b>2.1377</b> | <b>6.9000e-004</b> | <b>0.0000</b> | <b>2.1550</b> |

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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        | 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       | 4.0000e-005        | 3.0000e-005        | 2.7000e-004        | 0.0000        | 1.0000e-004        | 0.0000        | 1.0000e-004        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 0.0000        | 0.0848        | 0.0848        | 0.0000        | 0.0000        | 0.0848        |
| <b>Total</b> | <b>4.0000e-005</b> | <b>3.0000e-005</b> | <b>2.7000e-004</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.0848</b> | <b>0.0848</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0848</b> |

**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 |                    |               |               |                    | 1.8800e-003        | 0.0000             | 1.8800e-003        | 1.0300e-003        | 0.0000             | 1.0300e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.9900e-003        | 0.0181        | 0.0189        | 3.0000e-005        |                    | 1.0200e-003        | 1.0200e-003        |                    | 9.7000e-004        | 9.7000e-004        | 0.0000        | 2.6023        | 2.6023        | 4.8000e-004        | 0.0000        | 2.6145        |
| <b>Total</b>  | <b>1.9900e-003</b> | <b>0.0181</b> | <b>0.0189</b> | <b>3.0000e-005</b> | <b>1.8800e-003</b> | <b>1.0200e-003</b> | <b>2.9000e-003</b> | <b>1.0300e-003</b> | <b>9.7000e-004</b> | <b>2.0000e-003</b> | <b>0.0000</b> | <b>2.6023</b> | <b>2.6023</b> | <b>4.8000e-004</b> | <b>0.0000</b> | <b>2.6145</b> |

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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        | 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       | 8.0000e-005        | 5.0000e-005        | 5.4000e-004        | 0.0000        | 2.0000e-004        | 0.0000        | 2.0000e-004        | 5.0000e-005        | 0.0000        | 5.0000e-005        | 0.0000        | 0.1695        | 0.1695        | 0.0000        | 0.0000        | 0.1696        |
| <b>Total</b> | <b>8.0000e-005</b> | <b>5.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>2.0000e-004</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>0.1695</b> | <b>0.1695</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1696</b> |

**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 |                    |               |               |                    | 8.5000e-004        | 0.0000             | 8.5000e-004        | 4.7000e-004        | 0.0000             | 4.7000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.9900e-003        | 0.0181        | 0.0189        | 3.0000e-005        |                    | 1.0200e-003        | 1.0200e-003        |                    | 9.7000e-004        | 9.7000e-004        | 0.0000        | 2.6023        | 2.6023        | 4.8000e-004        | 0.0000        | 2.6145        |
| <b>Total</b>  | <b>1.9900e-003</b> | <b>0.0181</b> | <b>0.0189</b> | <b>3.0000e-005</b> | <b>8.5000e-004</b> | <b>1.0200e-003</b> | <b>1.8700e-003</b> | <b>4.7000e-004</b> | <b>9.7000e-004</b> | <b>1.4400e-003</b> | <b>0.0000</b> | <b>2.6023</b> | <b>2.6023</b> | <b>4.8000e-004</b> | <b>0.0000</b> | <b>2.6145</b> |

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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        | 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       | 8.0000e-005        | 5.0000e-005        | 5.4000e-004        | 0.0000        | 2.0000e-004        | 0.0000        | 2.0000e-004        | 5.0000e-005        | 0.0000        | 5.0000e-005        | 0.0000        | 0.1695        | 0.1695        | 0.0000        | 0.0000        | 0.1696        |
| <b>Total</b> | <b>8.0000e-005</b> | <b>5.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>2.0000e-004</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>0.1695</b> | <b>0.1695</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1696</b> |

**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     | 0.0504        | 0.5190        | 0.4721        | 7.4000e-004        |               | 0.0291        | 0.0291        |                | 0.0268        | 0.0268        | 0.0000        | 65.0533        | 65.0533        | 0.0210        | 0.0000        | 65.5793        |
| <b>Total</b> | <b>0.0504</b> | <b>0.5190</b> | <b>0.4721</b> | <b>7.4000e-004</b> |               | <b>0.0291</b> | <b>0.0291</b> |                | <b>0.0268</b> | <b>0.0268</b> | <b>0.0000</b> | <b>65.0533</b> | <b>65.0533</b> | <b>0.0210</b> | <b>0.0000</b> | <b>65.5793</b> |

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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             | 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       | 4.6000e-004        | 0.0130        | 4.6800e-003   | 3.0000e-005        | 8.5000e-004        | 3.0000e-005        | 8.8000e-004        | 2.5000e-004        | 3.0000e-005        | 2.8000e-004        | 0.0000        | 3.3076        | 3.3076        | 1.6000e-004        | 0.0000        | 3.3116        |
| Worker       | 8.5000e-004        | 5.6000e-004   | 5.6100e-003   | 2.0000e-005        | 2.0500e-003        | 1.0000e-005        | 2.0600e-003        | 5.4000e-004        | 1.0000e-005        | 5.6000e-004        | 0.0000        | 1.7628        | 1.7628        | 4.0000e-005        | 0.0000        | 1.7638        |
| <b>Total</b> | <b>1.3100e-003</b> | <b>0.0135</b> | <b>0.0103</b> | <b>5.0000e-005</b> | <b>2.9000e-003</b> | <b>4.0000e-005</b> | <b>2.9400e-003</b> | <b>7.9000e-004</b> | <b>4.0000e-005</b> | <b>8.4000e-004</b> | <b>0.0000</b> | <b>5.0705</b> | <b>5.0705</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>5.0754</b> |

**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     | 0.0504        | 0.5190        | 0.4721        | 7.4000e-004        |               | 0.0291        | 0.0291        |                | 0.0268        | 0.0268        | 0.0000        | 65.0533        | 65.0533        | 0.0210        | 0.0000        | 65.5792        |
| <b>Total</b> | <b>0.0504</b> | <b>0.5190</b> | <b>0.4721</b> | <b>7.4000e-004</b> |               | <b>0.0291</b> | <b>0.0291</b> |                | <b>0.0268</b> | <b>0.0268</b> | <b>0.0000</b> | <b>65.0533</b> | <b>65.0533</b> | <b>0.0210</b> | <b>0.0000</b> | <b>65.5792</b> |

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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             | 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       | 4.6000e-004        | 0.0130        | 4.6800e-003   | 3.0000e-005        | 8.5000e-004        | 3.0000e-005        | 8.8000e-004        | 2.5000e-004        | 3.0000e-005        | 2.8000e-004        | 0.0000        | 3.3076        | 3.3076        | 1.6000e-004        | 0.0000        | 3.3116        |
| Worker       | 8.5000e-004        | 5.6000e-004   | 5.6100e-003   | 2.0000e-005        | 2.0500e-003        | 1.0000e-005        | 2.0600e-003        | 5.4000e-004        | 1.0000e-005        | 5.6000e-004        | 0.0000        | 1.7628        | 1.7628        | 4.0000e-005        | 0.0000        | 1.7638        |
| <b>Total</b> | <b>1.3100e-003</b> | <b>0.0135</b> | <b>0.0103</b> | <b>5.0000e-005</b> | <b>2.9000e-003</b> | <b>4.0000e-005</b> | <b>2.9400e-003</b> | <b>7.9000e-004</b> | <b>4.0000e-005</b> | <b>8.4000e-004</b> | <b>0.0000</b> | <b>5.0705</b> | <b>5.0705</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>5.0754</b> |

**3.6 Architectural Coating - 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         |               |               |                    |               |               |
| Archit. Coating | 0.0553        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 8.2100e-003   | 0.0573        | 0.0682        | 1.1000e-004        |               | 3.5300e-003        | 3.5300e-003        |                | 3.5300e-003        | 3.5300e-003        | 0.0000        | 9.5747        | 9.5747        | 6.6000e-004        | 0.0000        | 9.5911        |
| <b>Total</b>    | <b>0.0635</b> | <b>0.0573</b> | <b>0.0682</b> | <b>1.1000e-004</b> |               | <b>3.5300e-003</b> | <b>3.5300e-003</b> |                | <b>3.5300e-003</b> | <b>3.5300e-003</b> | <b>0.0000</b> | <b>9.5747</b> | <b>9.5747</b> | <b>6.6000e-004</b> | <b>0.0000</b> | <b>9.5911</b> |

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**3.6 Architectural Coating - 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        | 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       | 1.2000e-004        | 8.0000e-005        | 8.1000e-004        | 0.0000        | 3.0000e-004        | 0.0000        | 3.0000e-004        | 8.0000e-005        | 0.0000        | 8.0000e-005        | 0.0000        | 0.2543        | 0.2543        | 1.0000e-005        | 0.0000        | 0.2544        |
| <b>Total</b> | <b>1.2000e-004</b> | <b>8.0000e-005</b> | <b>8.1000e-004</b> | <b>0.0000</b> | <b>3.0000e-004</b> | <b>0.0000</b> | <b>3.0000e-004</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>0.2543</b> | <b>0.2543</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.2544</b> |

**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 | 0.0553        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 8.2100e-003   | 0.0573        | 0.0682        | 1.1000e-004        |               | 3.5300e-003        | 3.5300e-003        |                | 3.5300e-003        | 3.5300e-003        | 0.0000        | 9.5747        | 9.5747        | 6.6000e-004        | 0.0000        | 9.5911        |
| <b>Total</b>    | <b>0.0635</b> | <b>0.0573</b> | <b>0.0682</b> | <b>1.1000e-004</b> |               | <b>3.5300e-003</b> | <b>3.5300e-003</b> |                | <b>3.5300e-003</b> | <b>3.5300e-003</b> | <b>0.0000</b> | <b>9.5747</b> | <b>9.5747</b> | <b>6.6000e-004</b> | <b>0.0000</b> | <b>9.5911</b> |



## Corte Madera Townhall - Marin County, Annual

**3.6 Architectural Coating - 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        | 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       | 1.2000e-004        | 8.0000e-005        | 8.1000e-004        | 0.0000        | 3.0000e-004        | 0.0000        | 3.0000e-004        | 8.0000e-005        | 0.0000        | 8.0000e-005        | 0.0000        | 0.2543        | 0.2543        | 1.0000e-005        | 0.0000        | 0.2544        |
| <b>Total</b> | <b>1.2000e-004</b> | <b>8.0000e-005</b> | <b>8.1000e-004</b> | <b>0.0000</b> | <b>3.0000e-004</b> | <b>0.0000</b> | <b>3.0000e-004</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>0.2543</b> | <b>0.2543</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.2544</b> |

**3.7 Paving - 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     | 2.5200e-003        | 0.0235        | 0.0248        | 4.0000e-005        |               | 1.2400e-003        | 1.2400e-003        |                | 1.1500e-003        | 1.1500e-003        | 0.0000        | 3.2874        | 3.2874        | 9.6000e-004        | 0.0000        | 3.3113        |
| Paving       | 0.0000             |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>2.5200e-003</b> | <b>0.0235</b> | <b>0.0248</b> | <b>4.0000e-005</b> |               | <b>1.2400e-003</b> | <b>1.2400e-003</b> |                | <b>1.1500e-003</b> | <b>1.1500e-003</b> | <b>0.0000</b> | <b>3.2874</b> | <b>3.2874</b> | <b>9.6000e-004</b> | <b>0.0000</b> | <b>3.3113</b> |

## Corte Madera Townhall - Marin County, Annual

**3.7 Paving - 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        | 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       | 2.0000e-004        | 1.3000e-004        | 1.3600e-003        | 0.0000        | 5.0000e-004        | 0.0000        | 5.0000e-004        | 1.3000e-004        | 0.0000        | 1.4000e-004        | 0.0000        | 0.4272        | 0.4272        | 1.0000e-005        | 0.0000        | 0.4274        |
| <b>Total</b> | <b>2.0000e-004</b> | <b>1.3000e-004</b> | <b>1.3600e-003</b> | <b>0.0000</b> | <b>5.0000e-004</b> | <b>0.0000</b> | <b>5.0000e-004</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>0.4272</b> | <b>0.4272</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.4274</b> |

**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     | 2.5200e-003        | 0.0235        | 0.0248        | 4.0000e-005        |               | 1.2400e-003        | 1.2400e-003        |                | 1.1500e-003        | 1.1500e-003        | 0.0000        | 3.2874        | 3.2874        | 9.6000e-004        | 0.0000        | 3.3113        |
| Paving       | 0.0000             |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>2.5200e-003</b> | <b>0.0235</b> | <b>0.0248</b> | <b>4.0000e-005</b> |               | <b>1.2400e-003</b> | <b>1.2400e-003</b> |                | <b>1.1500e-003</b> | <b>1.1500e-003</b> | <b>0.0000</b> | <b>3.2874</b> | <b>3.2874</b> | <b>9.6000e-004</b> | <b>0.0000</b> | <b>3.3113</b> |

## Corte Madera Townhall - Marin County, Annual

**3.7 Paving - 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        | 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       | 2.0000e-004        | 1.3000e-004        | 1.3600e-003        | 0.0000        | 5.0000e-004        | 0.0000        | 5.0000e-004        | 1.3000e-004        | 0.0000        | 1.4000e-004        | 0.0000        | 0.4272        | 0.4272        | 1.0000e-005        | 0.0000        | 0.4274        |
| <b>Total</b> | <b>2.0000e-004</b> | <b>1.3000e-004</b> | <b>1.3600e-003</b> | <b>0.0000</b> | <b>5.0000e-004</b> | <b>0.0000</b> | <b>5.0000e-004</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>0.4272</b> | <b>0.4272</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.4274</b> |

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

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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   | 0.0130  | 0.0392 | 0.1269 | 4.0000e-004 | 0.0367        | 4.2000e-004  | 0.0371     | 9.8400e-003    | 3.9000e-004   | 0.0102      | 0.0000   | 36.4499   | 36.4499   | 1.2900e-003 | 0.0000 | 36.4821 |
| Unmitigated | 0.0130  | 0.0392 | 0.1269 | 4.0000e-004 | 0.0367        | 4.2000e-004  | 0.0371     | 9.8400e-003    | 3.9000e-004   | 0.0102      | 0.0000   | 36.4499   | 36.4499   | 1.2900e-003 | 0.0000 | 36.4821 |

## 4.2 Trip Summary Information

| Land Use                         | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|----------------------------------|-------------------------|----------|--------|-------------|------------|
|                                  | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Government Office Building       | 80.93                   | 0.00     | 0.00   | 99,132      | 99,132     |
| Unenclosed Parking with Elevator | 0.00                    | 0.00     | 0.00   |             |            |
| Total                            | 80.93                   | 0.00     | 0.00   | 99,132      | 99,132     |

## 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 |
| Government Office Building | 9.50       | 7.30       | 7.30        | 33.00      | 62.00      | 5.00        | 50             | 34       | 16      |
| Unenclosed Parking with    | 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       |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Government Office Building       | 0.592917 | 0.040807 | 0.199317 | 0.111088 | 0.016573 | 0.005170 | 0.010431 | 0.011175 | 0.002033 | 0.003262 | 0.005795 | 0.000692 | 0.000740 |
| Unenclosed Parking with Elevator | 0.592917 | 0.040807 | 0.199317 | 0.111088 | 0.016573 | 0.005170 | 0.010431 | 0.011175 | 0.002033 | 0.003262 | 0.005795 | 0.000692 | 0.000740 |

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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   |             |             |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 39.4755   | 39.4755   | 1.7800e-003 | 3.7000e-004 | 39.6302 |
| Electricity Unmitigated |             |             |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 39.4755   | 39.4755   | 1.7800e-003 | 3.7000e-004 | 39.6302 |
| NaturalGas Mitigated    | 1.0900e-003 | 9.9500e-003 | 8.3600e-003 | 6.0000e-005 |               | 7.6000e-004  | 7.6000e-004 |                | 7.6000e-004   | 7.6000e-004 | 0.0000   | 10.8310   | 10.8310   | 2.1000e-004 | 2.0000e-004 | 10.8954 |
| NaturalGas Unmitigated  | 1.0900e-003 | 9.9500e-003 | 8.3600e-003 | 6.0000e-005 |               | 7.6000e-004  | 7.6000e-004 |                | 7.6000e-004   | 7.6000e-004 | 0.0000   | 10.8310   | 10.8310   | 2.1000e-004 | 2.0000e-004 | 10.8954 |

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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         |                |                |                    |                    |                |
| Government Office Building       | 202965         | 1.0900e-003        | 9.9500e-003        | 8.3600e-003        | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004        |                | 7.6000e-004        | 7.6000e-004        | 0.0000        | 10.8310        | 10.8310        | 2.1000e-004        | 2.0000e-004        | 10.8954        |
| Unenclosed 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         |
| <b>Total</b>                     |                | <b>1.0900e-003</b> | <b>9.9500e-003</b> | <b>8.3600e-003</b> | <b>6.0000e-005</b> |               | <b>7.6000e-004</b> | <b>7.6000e-004</b> |                | <b>7.6000e-004</b> | <b>7.6000e-004</b> | <b>0.0000</b> | <b>10.8310</b> | <b>10.8310</b> | <b>2.1000e-004</b> | <b>2.0000e-004</b> | <b>10.8954</b> |

**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         |                |                |                    |                    |                |
| Government Office Building       | 202965         | 1.0900e-003        | 9.9500e-003        | 8.3600e-003        | 6.0000e-005        |               | 7.6000e-004        | 7.6000e-004        |                | 7.6000e-004        | 7.6000e-004        | 0.0000        | 10.8310        | 10.8310        | 2.1000e-004        | 2.0000e-004        | 10.8954        |
| Unenclosed 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         |
| <b>Total</b>                     |                | <b>1.0900e-003</b> | <b>9.9500e-003</b> | <b>8.3600e-003</b> | <b>6.0000e-005</b> |               | <b>7.6000e-004</b> | <b>7.6000e-004</b> |                | <b>7.6000e-004</b> | <b>7.6000e-004</b> | <b>0.0000</b> | <b>10.8310</b> | <b>10.8310</b> | <b>2.1000e-004</b> | <b>2.0000e-004</b> | <b>10.8954</b> |

## Corte Madera Townhall - Marin County, Annual

**5.3 Energy by Land Use - Electricity****Unmitigated**

|                                  | Electricity Use | Total CO2      | CH4                | N2O                | CO2e           |
|----------------------------------|-----------------|----------------|--------------------|--------------------|----------------|
| Land Use                         | kWh/yr          | MT/yr          |                    |                    |                |
| Government Office Building       | 131040          | 38.1210        | 1.7200e-003        | 3.6000e-004        | 38.2704        |
| Unenclosed Parking with Elevator | 4656            | 1.3545         | 6.0000e-005        | 1.0000e-005        | 1.3598         |
| <b>Total</b>                     |                 | <b>39.4755</b> | <b>1.7800e-003</b> | <b>3.7000e-004</b> | <b>39.6302</b> |

**Mitigated**

|                                  | Electricity Use | Total CO2      | CH4                | N2O                | CO2e           |
|----------------------------------|-----------------|----------------|--------------------|--------------------|----------------|
| Land Use                         | kWh/yr          | MT/yr          |                    |                    |                |
| Government Office Building       | 131040          | 38.1210        | 1.7200e-003        | 3.6000e-004        | 38.2704        |
| Unenclosed Parking with Elevator | 4656            | 1.3545         | 6.0000e-005        | 1.0000e-005        | 1.3598         |
| <b>Total</b>                     |                 | <b>39.4755</b> | <b>1.7800e-003</b> | <b>3.7000e-004</b> | <b>39.6302</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Corte Madera Townhall - Marin County, Annual

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

|             | ROG     | NOx    | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|---------|--------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr |        |             |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 0.0442  | 0.0000 | 6.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.3000e-004 | 1.3000e-004 | 0.0000 | 0.0000 | 1.3000e-004 |
| Unmitigated | 0.0442  | 0.0000 | 6.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1.3000e-004 | 1.3000e-004 | 0.0000 | 0.0000 | 1.3000e-004 |



## Corte Madera Townhall - Marin County, Annual

**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 | 3.0800e-003   |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 0.0412        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005   | 0.0000        | 6.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.3000e-004        | 1.3000e-004        | 0.0000        | 0.0000        | 1.3000e-004        |
| <b>Total</b>          | <b>0.0443</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.3000e-004</b> |

**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 | 3.0800e-003   |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Consumer Products     | 0.0412        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 1.0000e-005   | 0.0000        | 6.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 1.3000e-004        | 1.3000e-004        | 0.0000        | 0.0000        | 1.3000e-004        |
| <b>Total</b>          | <b>0.0443</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>1.3000e-004</b> |

**7.0 Water Detail**

## Corte Madera Townhall - Marin County, Annual

**7.1 Mitigation Measures Water**

|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 0.4997    | 6.4900e-003 | 1.6000e-004 | 0.7088 |
| Unmitigated | 0.4997    | 6.4900e-003 | 1.6000e-004 | 0.7088 |

**7.2 Water by Land Use****Unmitigated**

|                                  | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|----------------------------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use                         | Mgal               | MT/yr         |                    |                    |               |
| Government Office Building       | 0.19866 / 0.121759 | 0.4997        | 6.4900e-003        | 1.6000e-004        | 0.7088        |
| Unenclosed Parking with Elevator | 0 / 0              | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| <b>Total</b>                     |                    | <b>0.4997</b> | <b>6.4900e-003</b> | <b>1.6000e-004</b> | <b>0.7088</b> |

## Corte Madera Townhall - Marin County, Annual

**7.2 Water by Land Use****Mitigated**

|                                  | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|----------------------------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use                         | Mgal               | MT/yr         |                    |                    |               |
| Government Office Building       | 0.19866 / 0.121759 | 0.4997        | 6.4900e-003        | 1.6000e-004        | 0.7088        |
| Unenclosed Parking with Elevator | 0 / 0              | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| <b>Total</b>                     |                    | <b>0.4997</b> | <b>6.4900e-003</b> | <b>1.6000e-004</b> | <b>0.7088</b> |

**8.0 Waste Detail****8.1 Mitigation Measures Waste****Category/Year**

|             | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-----------|--------|--------|--------|
|             | MT/yr     |        |        |        |
| Mitigated   | 0.1888    | 0.0112 | 0.0000 | 0.4677 |
| Unmitigated | 0.1888    | 0.0112 | 0.0000 | 0.4677 |

## Corte Madera Townhall - Marin County, Annual

**8.2 Waste by Land Use****Unmitigated**

|                                  | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use                         | tons           | MT/yr         |               |               |               |
| Government Office Building       | 0.93           | 0.1888        | 0.0112        | 0.0000        | 0.4677        |
| Unenclosed Parking with Elevator | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>                     |                | <b>0.1888</b> | <b>0.0112</b> | <b>0.0000</b> | <b>0.4677</b> |

**Mitigated**

|                                  | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|----------------------------------|----------------|---------------|---------------|---------------|---------------|
| Land Use                         | tons           | MT/yr         |               |               |               |
| Government Office Building       | 0.93           | 0.1888        | 0.0112        | 0.0000        | 0.4677        |
| Unenclosed Parking with Elevator | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>                     |                | <b>0.1888</b> | <b>0.0112</b> | <b>0.0000</b> | <b>0.4677</b> |

**9.0 Operational Offroad**

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

## Corte Madera Townhall - Marin County, Annual

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

**11.0 Vegetation**

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## Corte Madera Townhall - Marin County, Winter

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

### 3.0 Construction Detail

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#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/4/2021   | 1/20/2021 | 5             | 13       |                   |
| 2            | Site Preparation      | Site Preparation      | 1/21/2021  | 1/27/2021 | 5             | 5        |                   |
| 3            | Grading               | Grading               | 1/28/2021  | 2/3/2021  | 5             | 5        |                   |
| 4            | Building Construction | Building Construction | 2/4/2021   | 8/4/2021  | 5             | 130      |                   |
| 5            | Architectural Coating | Architectural Coating | 5/10/2021  | 8/20/2021 | 5             | 75       |                   |
| 6            | Paving                | Paving                | 8/5/2021   | 8/13/2021 | 5             | 7        |                   |

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0.05

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 15,750; Non-Residential Outdoor: 5,250; Striped Parking Area: 144 (Architectural Coating – sqft)

#### OffRoad Equipment

## Corte Madera Townhall - Marin County, Winter

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Demolition            | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Site Preparation      | Graders                   | 1      | 8.00        | 187         | 0.41        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Grading               | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 2      | 6.00        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |

Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 10.00              | 0.00               | 51.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 2                       | 5.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 5                       | 4.00               | 2.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 1.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

## Corte Madera Townhall - Marin County, Winter

**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      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                        |                        |               |     |                        |
| Fugitive Dust |               |               |               |               | 0.8425        | 0.0000        | 0.8425        | 0.1276         | 0.0000        | 0.1276        |          |                        | 0.0000                 |               |     | 0.0000                 |
| Off-Road      | 0.7965        | 7.2530        | 7.5691        | 0.0120        |               | 0.4073        | 0.4073        |                | 0.3886        | 0.3886        |          | 1,147.433<br>8         | 1,147.433<br>8         | 0.2138        |     | 1,152.779<br>7         |
| <b>Total</b>  | <b>0.7965</b> | <b>7.2530</b> | <b>7.5691</b> | <b>0.0120</b> | <b>0.8425</b> | <b>0.4073</b> | <b>1.2499</b> | <b>0.1276</b>  | <b>0.3886</b> | <b>0.5162</b> |          | <b>1,147.433<br/>8</b> | <b>1,147.433<br/>8</b> | <b>0.2138</b> |     | <b>1,152.779<br/>7</b> |



## Corte Madera Townhall - Marin County, Winter

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0316        | 1.0619        | 0.3211        | 3.0000e-003        | 0.0684        | 3.4300e-003        | 0.0719        | 0.0188         | 3.2800e-003        | 0.0220        |          | 323.5021        | 323.5021        | 0.0193        |     | 323.9835        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.0364        | 0.0232        | 0.2217        | 7.5000e-004        | 0.0822        | 5.2000e-004        | 0.0827        | 0.0218         | 4.8000e-004        | 0.0223        |          | 74.3691         | 74.3691         | 1.6500e-003   |     | 74.4102         |
| <b>Total</b> | <b>0.0680</b> | <b>1.0851</b> | <b>0.5428</b> | <b>3.7500e-003</b> | <b>0.1506</b> | <b>3.9500e-003</b> | <b>0.1545</b> | <b>0.0405</b>  | <b>3.7600e-003</b> | <b>0.0443</b> |          | <b>397.8712</b> | <b>397.8712</b> | <b>0.0209</b> |     | <b>398.3937</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 0.3791        | 0.0000        | 0.3791        | 0.0574         | 0.0000        | 0.0574        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7965        | 7.2530        | 7.5691        | 0.0120        |               | 0.4073        | 0.4073        |                | 0.3886        | 0.3886        | 0.0000        | 1,147.4338        | 1,147.4338        | 0.2138        |     | 1,152.7797        |
| <b>Total</b>  | <b>0.7965</b> | <b>7.2530</b> | <b>7.5691</b> | <b>0.0120</b> | <b>0.3791</b> | <b>0.4073</b> | <b>0.7865</b> | <b>0.0574</b>  | <b>0.3886</b> | <b>0.4460</b> | <b>0.0000</b> | <b>1,147.4338</b> | <b>1,147.4338</b> | <b>0.2138</b> |     | <b>1,152.7797</b> |

## Corte Madera Townhall - Marin County, Winter

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0316        | 1.0619        | 0.3211        | 3.0000e-003        | 0.0684        | 3.4300e-003        | 0.0719        | 0.0188         | 3.2800e-003        | 0.0220        |          | 323.5021        | 323.5021        | 0.0193        |     | 323.9835        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Worker       | 0.0364        | 0.0232        | 0.2217        | 7.5000e-004        | 0.0822        | 5.2000e-004        | 0.0827        | 0.0218         | 4.8000e-004        | 0.0223        |          | 74.3691         | 74.3691         | 1.6500e-003   |     | 74.4102         |
| <b>Total</b> | <b>0.0680</b> | <b>1.0851</b> | <b>0.5428</b> | <b>3.7500e-003</b> | <b>0.1506</b> | <b>3.9500e-003</b> | <b>0.1545</b> | <b>0.0405</b>  | <b>3.7600e-003</b> | <b>0.0443</b> |          | <b>397.8712</b> | <b>397.8712</b> | <b>0.0209</b> |     | <b>398.3937</b> |

**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      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.1061        | 0.0000        | 0.1061        | 0.0115         | 0.0000        | 0.0115        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.6403        | 7.8204        | 4.0274        | 9.7300e-003        |               | 0.2995        | 0.2995        |                | 0.2755        | 0.2755        |          | 942.5842        | 942.5842        | 0.3049        |     | 950.2055        |
| <b>Total</b>  | <b>0.6403</b> | <b>7.8204</b> | <b>4.0274</b> | <b>9.7300e-003</b> | <b>0.1061</b> | <b>0.2995</b> | <b>0.4055</b> | <b>0.0115</b>  | <b>0.2755</b> | <b>0.2870</b> |          | <b>942.5842</b> | <b>942.5842</b> | <b>0.3049</b> |     | <b>950.2055</b> |

## Corte Madera Townhall - Marin County, Winter

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0182        | 0.0116        | 0.1109        | 3.7000e-004        | 0.0411        | 2.6000e-004        | 0.0413        | 0.0109         | 2.4000e-004        | 0.0111        |          | 37.1845        | 37.1845        | 8.2000e-004        |     | 37.2051        |
| <b>Total</b> | <b>0.0182</b> | <b>0.0116</b> | <b>0.1109</b> | <b>3.7000e-004</b> | <b>0.0411</b> | <b>2.6000e-004</b> | <b>0.0413</b> | <b>0.0109</b>  | <b>2.4000e-004</b> | <b>0.0111</b> |          | <b>37.1845</b> | <b>37.1845</b> | <b>8.2000e-004</b> |     | <b>37.2051</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                    |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.0477        | 0.0000        | 0.0477        | 5.1500e-003        | 0.0000        | 5.1500e-003   |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.6403        | 7.8204        | 4.0274        | 9.7300e-003        |               | 0.2995        | 0.2995        |                    | 0.2755        | 0.2755        | 0.0000        | 942.5842        | 942.5842        | 0.3049        |     | 950.2055        |
| <b>Total</b>  | <b>0.6403</b> | <b>7.8204</b> | <b>4.0274</b> | <b>9.7300e-003</b> | <b>0.0477</b> | <b>0.2995</b> | <b>0.3472</b> | <b>5.1500e-003</b> | <b>0.2755</b> | <b>0.2807</b> | <b>0.0000</b> | <b>942.5842</b> | <b>942.5842</b> | <b>0.3049</b> |     | <b>950.2055</b> |

## Corte Madera Townhall - Marin County, Winter

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0182        | 0.0116        | 0.1109        | 3.7000e-004        | 0.0411        | 2.6000e-004        | 0.0413        | 0.0109         | 2.4000e-004        | 0.0111        |          | 37.1845        | 37.1845        | 8.2000e-004        |     | 37.2051        |
| <b>Total</b> | <b>0.0182</b> | <b>0.0116</b> | <b>0.1109</b> | <b>3.7000e-004</b> | <b>0.0411</b> | <b>2.6000e-004</b> | <b>0.0413</b> | <b>0.0109</b>  | <b>2.4000e-004</b> | <b>0.0111</b> |          | <b>37.1845</b> | <b>37.1845</b> | <b>8.2000e-004</b> |     | <b>37.2051</b> |

**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      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 0.7528        | 0.0000        | 0.7528        | 0.4138         | 0.0000        | 0.4138        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7965        | 7.2530        | 7.5691        | 0.0120        |               | 0.4073        | 0.4073        |                | 0.3886        | 0.3886        |          | 1,147.4338        | 1,147.4338        | 0.2138        |     | 1,152.7797        |
| <b>Total</b>  | <b>0.7965</b> | <b>7.2530</b> | <b>7.5691</b> | <b>0.0120</b> | <b>0.7528</b> | <b>0.4073</b> | <b>1.1601</b> | <b>0.4138</b>  | <b>0.3886</b> | <b>0.8024</b> |          | <b>1,147.4338</b> | <b>1,147.4338</b> | <b>0.2138</b> |     | <b>1,152.7797</b> |

## Corte Madera Townhall - Marin County, Winter

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0364        | 0.0232        | 0.2217        | 7.5000e-004        | 0.0822        | 5.2000e-004        | 0.0827        | 0.0218         | 4.8000e-004        | 0.0223        |          | 74.3691        | 74.3691        | 1.6500e-003        |     | 74.4102        |
| <b>Total</b> | <b>0.0364</b> | <b>0.0232</b> | <b>0.2217</b> | <b>7.5000e-004</b> | <b>0.0822</b> | <b>5.2000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.8000e-004</b> | <b>0.0223</b> |          | <b>74.3691</b> | <b>74.3691</b> | <b>1.6500e-003</b> |     | <b>74.4102</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 0.3387        | 0.0000        | 0.3387        | 0.1862         | 0.0000        | 0.1862        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7965        | 7.2530        | 7.5691        | 0.0120        |               | 0.4073        | 0.4073        |                | 0.3886        | 0.3886        | 0.0000        | 1,147.4338        | 1,147.4338        | 0.2138        |     | 1,152.7797        |
| <b>Total</b>  | <b>0.7965</b> | <b>7.2530</b> | <b>7.5691</b> | <b>0.0120</b> | <b>0.3387</b> | <b>0.4073</b> | <b>0.7461</b> | <b>0.1862</b>  | <b>0.3886</b> | <b>0.5748</b> | <b>0.0000</b> | <b>1,147.4338</b> | <b>1,147.4338</b> | <b>0.2138</b> |     | <b>1,152.7797</b> |

## Corte Madera Townhall - Marin County, Winter

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0364        | 0.0232        | 0.2217        | 7.5000e-004        | 0.0822        | 5.2000e-004        | 0.0827        | 0.0218         | 4.8000e-004        | 0.0223        |          | 74.3691        | 74.3691        | 1.6500e-003        |     | 74.4102        |
| <b>Total</b> | <b>0.0364</b> | <b>0.0232</b> | <b>0.2217</b> | <b>7.5000e-004</b> | <b>0.0822</b> | <b>5.2000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.8000e-004</b> | <b>0.0223</b> |          | <b>74.3691</b> | <b>74.3691</b> | <b>1.6500e-003</b> |     | <b>74.4102</b> |

**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     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 0.7750        | 7.9850        | 7.2637        | 0.0114        |               | 0.4475        | 0.4475        |                | 0.4117        | 0.4117        |          | 1,103.2158        | 1,103.2158        | 0.3568        |     | 1,112.1358        |
| <b>Total</b> | <b>0.7750</b> | <b>7.9850</b> | <b>7.2637</b> | <b>0.0114</b> |               | <b>0.4475</b> | <b>0.4475</b> |                | <b>0.4117</b> | <b>0.4117</b> |          | <b>1,103.2158</b> | <b>1,103.2158</b> | <b>0.3568</b> |     | <b>1,112.1358</b> |

## Corte Madera Townhall - Marin County, Winter

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 7.3700e-003   | 0.1993        | 0.0760        | 5.2000e-004        | 0.0135        | 4.8000e-004        | 0.0140        | 3.8900e-003    | 4.6000e-004        | 4.3600e-003   |          | 55.3887        | 55.3887        | 2.7600e-003        |     | 55.4577        |
| Worker       | 0.0145        | 9.2800e-003   | 0.0887        | 3.0000e-004        | 0.0329        | 2.1000e-004        | 0.0331        | 8.7200e-003    | 1.9000e-004        | 8.9100e-003   |          | 29.7476        | 29.7476        | 6.6000e-004        |     | 29.7641        |
| <b>Total</b> | <b>0.0219</b> | <b>0.2085</b> | <b>0.1647</b> | <b>8.2000e-004</b> | <b>0.0464</b> | <b>6.9000e-004</b> | <b>0.0471</b> | <b>0.0126</b>  | <b>6.5000e-004</b> | <b>0.0133</b> |          | <b>85.1363</b> | <b>85.1363</b> | <b>3.4200e-003</b> |     | <b>85.2218</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 0.7750        | 7.9850        | 7.2637        | 0.0114        |               | 0.4475        | 0.4475        |                | 0.4117        | 0.4117        | 0.0000        | 1,103.2158        | 1,103.2158        | 0.3568        |     | 1,112.1358        |
| <b>Total</b> | <b>0.7750</b> | <b>7.9850</b> | <b>7.2637</b> | <b>0.0114</b> |               | <b>0.4475</b> | <b>0.4475</b> |                | <b>0.4117</b> | <b>0.4117</b> | <b>0.0000</b> | <b>1,103.2158</b> | <b>1,103.2158</b> | <b>0.3568</b> |     | <b>1,112.1358</b> |

## Corte Madera Townhall - Marin County, Winter

**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     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 7.3700e-003   | 0.1993        | 0.0760        | 5.2000e-004        | 0.0135        | 4.8000e-004        | 0.0140        | 3.8900e-003    | 4.6000e-004        | 4.3600e-003   |          | 55.3887        | 55.3887        | 2.7600e-003        |     | 55.4577        |
| Worker       | 0.0145        | 9.2800e-003   | 0.0887        | 3.0000e-004        | 0.0329        | 2.1000e-004        | 0.0331        | 8.7200e-003    | 1.9000e-004        | 8.9100e-003   |          | 29.7476        | 29.7476        | 6.6000e-004        |     | 29.7641        |
| <b>Total</b> | <b>0.0219</b> | <b>0.2085</b> | <b>0.1647</b> | <b>8.2000e-004</b> | <b>0.0464</b> | <b>6.9000e-004</b> | <b>0.0471</b> | <b>0.0126</b>  | <b>6.5000e-004</b> | <b>0.0133</b> |          | <b>85.1363</b> | <b>85.1363</b> | <b>3.4200e-003</b> |     | <b>85.2218</b> |

**3.6 Architectural Coating - 2021****Unmitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 1.4734        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189        | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        |          | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>1.6923</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |



## Corte Madera Townhall - Marin County, Winter

**3.6 Architectural Coating - 2021****Unmitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 3.6400e-003        | 2.3200e-003        | 0.0222        | 7.0000e-005        | 8.2100e-003        | 5.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 7.4369        | 7.4369        | 1.6000e-004        |     | 7.4410        |
| <b>Total</b> | <b>3.6400e-003</b> | <b>2.3200e-003</b> | <b>0.0222</b> | <b>7.0000e-005</b> | <b>8.2100e-003</b> | <b>5.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>7.4369</b> | <b>7.4369</b> | <b>1.6000e-004</b> |     | <b>7.4410</b> |

**Mitigated Construction On-Site**

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 1.4734        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2189        | 1.5268        | 1.8176        | 2.9700e-003        |               | 0.0941        | 0.0941        |                | 0.0941        | 0.0941        | 0.0000        | 281.4481        | 281.4481        | 0.0193        |     | 281.9309        |
| <b>Total</b>    | <b>1.6923</b> | <b>1.5268</b> | <b>1.8176</b> | <b>2.9700e-003</b> |               | <b>0.0941</b> | <b>0.0941</b> |                | <b>0.0941</b> | <b>0.0941</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0193</b> |     | <b>281.9309</b> |

## Corte Madera Townhall - Marin County, Winter

**3.6 Architectural Coating - 2021****Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| Category     | lb/day             |                    |               |                    |                    |                    |                    |                    |                    |                    | lb/day   |               |               |                    |     |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             |          | 0.0000        | 0.0000        | 0.0000             |     | 0.0000        |
| Worker       | 3.6400e-003        | 2.3200e-003        | 0.0222        | 7.0000e-005        | 8.2100e-003        | 5.0000e-005        | 8.2700e-003        | 2.1800e-003        | 5.0000e-005        | 2.2300e-003        |          | 7.4369        | 7.4369        | 1.6000e-004        |     | 7.4410        |
| <b>Total</b> | <b>3.6400e-003</b> | <b>2.3200e-003</b> | <b>0.0222</b> | <b>7.0000e-005</b> | <b>8.2100e-003</b> | <b>5.0000e-005</b> | <b>8.2700e-003</b> | <b>2.1800e-003</b> | <b>5.0000e-005</b> | <b>2.2300e-003</b> |          | <b>7.4369</b> | <b>7.4369</b> | <b>1.6000e-004</b> |     | <b>7.4410</b> |

**3.7 Paving - 2021****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 0.7214        | 6.7178        | 7.0899        | 0.0113        |               | 0.3534        | 0.3534        |                | 0.3286        | 0.3286        |          | 1,035.3425        | 1,035.3425        | 0.3016        |     | 1,042.8818        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.7214</b> | <b>6.7178</b> | <b>7.0899</b> | <b>0.0113</b> |               | <b>0.3534</b> | <b>0.3534</b> |                | <b>0.3286</b> | <b>0.3286</b> |          | <b>1,035.3425</b> | <b>1,035.3425</b> | <b>0.3016</b> |     | <b>1,042.8818</b> |

## Corte Madera Townhall - Marin County, Winter

**3.7 Paving - 2021****Unmitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0655        | 0.0418        | 0.3991        | 1.3400e-003        | 0.1479        | 9.4000e-004        | 0.1488        | 0.0392         | 8.7000e-004        | 0.0401        |          | 133.8643        | 133.8643        | 2.9600e-003        |     | 133.9384        |
| <b>Total</b> | <b>0.0655</b> | <b>0.0418</b> | <b>0.3991</b> | <b>1.3400e-003</b> | <b>0.1479</b> | <b>9.4000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.7000e-004</b> | <b>0.0401</b> |          | <b>133.8643</b> | <b>133.8643</b> | <b>2.9600e-003</b> |     | <b>133.9384</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 0.7214        | 6.7178        | 7.0899        | 0.0113        |               | 0.3534        | 0.3534        |                | 0.3286        | 0.3286        | 0.0000        | 1,035.3425        | 1,035.3425        | 0.3016        |     | 1,042.8818        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.7214</b> | <b>6.7178</b> | <b>7.0899</b> | <b>0.0113</b> |               | <b>0.3534</b> | <b>0.3534</b> |                | <b>0.3286</b> | <b>0.3286</b> | <b>0.0000</b> | <b>1,035.3425</b> | <b>1,035.3425</b> | <b>0.3016</b> |     | <b>1,042.8818</b> |

## Corte Madera Townhall - Marin County, Winter

**3.7 Paving - 2021****Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0655        | 0.0418        | 0.3991        | 1.3400e-003        | 0.1479        | 9.4000e-004        | 0.1488        | 0.0392         | 8.7000e-004        | 0.0401        |          | 133.8643        | 133.8643        | 2.9600e-003        |     | 133.9384        |
| <b>Total</b> | <b>0.0655</b> | <b>0.0418</b> | <b>0.3991</b> | <b>1.3400e-003</b> | <b>0.1479</b> | <b>9.4000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.7000e-004</b> | <b>0.0401</b> |          | <b>133.8643</b> | <b>133.8643</b> | <b>2.9600e-003</b> |     | <b>133.9384</b> |

**4.0 Operational Detail - Mobile****4.1 Mitigation Measures Mobile**

## Corte Madera Townhall - Marin County, Winter

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-----|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |     |          |
| Mitigated   | 0.0994 | 0.3090 | 1.0278 | 3.0600e-003 | 0.2941        | 3.2400e-003  | 0.2974     | 0.0786         | 3.0300e-003   | 0.0817      |          | 307.5821  | 307.5821  | 0.0112 |     | 307.8616 |
| Unmitigated | 0.0994 | 0.3090 | 1.0278 | 3.0600e-003 | 0.2941        | 3.2400e-003  | 0.2974     | 0.0786         | 3.0300e-003   | 0.0817      |          | 307.5821  | 307.5821  | 0.0112 |     | 307.8616 |

## 4.2 Trip Summary Information

| Land Use                         | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|----------------------------------|-------------------------|----------|--------|-------------|------------|
|                                  | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Government Office Building       | 80.93                   | 0.00     | 0.00   | 99,132      | 99,132     |
| Unenclosed Parking with Elevator | 0.00                    | 0.00     | 0.00   |             |            |
| Total                            | 80.93                   | 0.00     | 0.00   | 99,132      | 99,132     |

## 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 |
| Government Office Building | 9.50       | 7.30       | 7.30        | 33.00      | 62.00      | 5.00        | 50             | 34       | 16      |
| Unenclosed Parking with    | 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       |
|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Government Office Building       | 0.592917 | 0.040807 | 0.199317 | 0.111088 | 0.016573 | 0.005170 | 0.010431 | 0.011175 | 0.002033 | 0.003262 | 0.005795 | 0.000692 | 0.000740 |
| Unenclosed Parking with Elevator | 0.592917 | 0.040807 | 0.199317 | 0.111088 | 0.016573 | 0.005170 | 0.010431 | 0.011175 | 0.002033 | 0.003262 | 0.005795 | 0.000692 | 0.000740 |

## Corte Madera Townhall - Marin County, Winter

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

|                        | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 6.0000e-003 | 0.0545 | 0.0458 | 3.3000e-004 |               | 4.1400e-003  | 4.1400e-003 |                | 4.1400e-003   | 4.1400e-003 |          | 65.4198   | 65.4198   | 1.2500e-003 | 1.2000e-003 | 65.8086 |
| NaturalGas Unmitigated | 6.0000e-003 | 0.0545 | 0.0458 | 3.3000e-004 |               | 4.1400e-003  | 4.1400e-003 |                | 4.1400e-003   | 4.1400e-003 |          | 65.4198   | 65.4198   | 1.2500e-003 | 1.2000e-003 | 65.8086 |

## Corte Madera Townhall - Marin County, Winter

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

|                                  | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|----------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                         | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Government Office Building       | 556.068        | 6.0000e-003        | 0.0545        | 0.0458        | 3.3000e-004        |               | 4.1400e-003        | 4.1400e-003        |                | 4.1400e-003        | 4.1400e-003        |          | 65.4198        | 65.4198        | 1.2500e-003        | 1.2000e-003        | 65.8086        |
| Unenclosed 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         |
| <b>Total</b>                     |                | <b>6.0000e-003</b> | <b>0.0545</b> | <b>0.0458</b> | <b>3.3000e-004</b> |               | <b>4.1400e-003</b> | <b>4.1400e-003</b> |                | <b>4.1400e-003</b> | <b>4.1400e-003</b> |          | <b>65.4198</b> | <b>65.4198</b> | <b>1.2500e-003</b> | <b>1.2000e-003</b> | <b>65.8086</b> |

**Mitigated**

|                                  | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|----------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                         | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Government Office Building       | 0.556068       | 6.0000e-003        | 0.0545        | 0.0458        | 3.3000e-004        |               | 4.1400e-003        | 4.1400e-003        |                | 4.1400e-003        | 4.1400e-003        |          | 65.4198        | 65.4198        | 1.2500e-003        | 1.2000e-003        | 65.8086        |
| Unenclosed 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         |
| <b>Total</b>                     |                | <b>6.0000e-003</b> | <b>0.0545</b> | <b>0.0458</b> | <b>3.3000e-004</b> |               | <b>4.1400e-003</b> | <b>4.1400e-003</b> |                | <b>4.1400e-003</b> | <b>4.1400e-003</b> |          | <b>65.4198</b> | <b>65.4198</b> | <b>1.2500e-003</b> | <b>1.2000e-003</b> | <b>65.8086</b> |

**6.0 Area Detail****6.1 Mitigation Measures Area**

## Corte Madera Townhall - Marin County, Winter

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

|             | ROG    | NOx         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O | CO2e        |
|-------------|--------|-------------|-------------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category    | lb/day |             |             |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated   | 0.2425 | 1.0000e-005 | 7.2000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 1.5300e-003 | 1.5300e-003 | 0.0000 |     | 1.6300e-003 |
| Unmitigated | 0.2425 | 1.0000e-005 | 7.2000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 1.5300e-003 | 1.5300e-003 | 0.0000 |     | 1.6300e-003 |



## Corte Madera Townhall - Marin County, Winter

**6.2 Area by SubCategory****Unmitigated**

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| SubCategory           | lb/day        |                    |                    |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Architectural Coating | 0.0169        |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Consumer Products     | 0.2256        |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Landscaping           | 7.0000e-005   | 1.0000e-005        | 7.2000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 1.5300e-003        | 1.5300e-003        | 0.0000        |     | 1.6300e-003        |
| <b>Total</b>          | <b>0.2425</b> | <b>1.0000e-005</b> | <b>7.2000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>1.5300e-003</b> | <b>1.5300e-003</b> | <b>0.0000</b> |     | <b>1.6300e-003</b> |

**Mitigated**

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| SubCategory           | lb/day        |                    |                    |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Architectural Coating | 0.0169        |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Consumer Products     | 0.2256        |                    |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Landscaping           | 7.0000e-005   | 1.0000e-005        | 7.2000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 1.5300e-003        | 1.5300e-003        | 0.0000        |     | 1.6300e-003        |
| <b>Total</b>          | <b>0.2425</b> | <b>1.0000e-005</b> | <b>7.2000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>1.5300e-003</b> | <b>1.5300e-003</b> | <b>0.0000</b> |     | <b>1.6300e-003</b> |

**7.0 Water Detail**

## Corte Madera Townhall - Marin County, Winter

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**7.1 Mitigation Measures Water**

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**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

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**9.0 Operational Offroad**

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| 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 |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

**Boilers**

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

**User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

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**11.0 Vegetation**

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# Attachment C

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Backup Diesel Generator Emissions

**Bulk Emissions Calculation****Emergency Generator (MTU 16V4000 DS2250)**

BHP @ 1800 RPM (60Hz) - Full Standby 3353  
total number of generators 1  
Exhaust gas flow (CFM) - Full Standby 17799  
Exhaust Gas Temp (F) - Full Standby 941  
Annual use (hrs per yr per generator) 48

From Exhaust Emissions Data Sheet

From Exhaust Emissions Data Sheet  
From Exhaust Emissions Data Sheet

Client indicated 2 days of testing, therefore conservatively assume 48 hrs

1lb=453.59g

Nox+ NMHC CO DPM Equivalent PM PM2.5

|                                           |      |      |      |      |                             |
|-------------------------------------------|------|------|------|------|-----------------------------|
| Emission factors (full standby) (g-hp/hr) | 5.07 | 0.52 | 0.04 | 0.04 | *EPA D2 Cycle Certification |
|-------------------------------------------|------|------|------|------|-----------------------------|

|                                         |      |      |      |      |
|-----------------------------------------|------|------|------|------|
| Emission factors (full standby) (g/sec) | 4.72 | 0.48 | 0.04 | 0.04 |
|-----------------------------------------|------|------|------|------|

|                                                         |       |      |      |      |
|---------------------------------------------------------|-------|------|------|------|
| Emission factors (full standby) (lbs/hr)                | 37.48 | 3.84 | 0.30 | 0.29 |
| DPF Controlled Emission factors (full standby) (lbs/hr) | 37.48 | 3.84 | 0.04 | 0.04 |

|       |                             |         |        |       |       |
|-------|-----------------------------|---------|--------|-------|-------|
| 48Hrs | Uncontrolled Total lbs/year | 1798.95 | 184.51 | 14.19 | 13.85 |
|       | Controlled Total lbs/year   | 1798.95 | 184.51 | 2.13  | 2.08  |

|                  |                              |      |      |      |      |
|------------------|------------------------------|------|------|------|------|
| Single Generator | Uncontrolled Total tons/year | 0.90 | 0.09 | 0.01 | 0.01 |
| Single Generator | Daily Avg (lbs/day)          | 4.93 | 0.51 | 0.01 | 0.01 |
| Single Generator | Controlled Total tons/year   | 0.90 | 0.09 | 0.00 | 0.00 |
| Single Generator | Daily Avg (lbs/day)          | 4.93 | 0.51 | 0.01 | 0.01 |

\*\*PM2.5 estimated as 97.6% of PM from diesel combustion, based on SCAQMD Final Methodology to Calculate PM 2.5 and PM 2.5 Significance Thresholds, October 2006

| GHG Emissions for #2 Distillate Diesel Fuel Consumption by                                                                                                    |                            |                                |                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|--------------------------------|----------------------|
| Operation                                                                                                                                                     | Fuel Consumption (gals/hr) | 48 Hrs Operation of one Engine |                      |
|                                                                                                                                                               |                            | Fuel Consumption (gallons)     | MT CO <sub>2</sub> e |
| 100% load                                                                                                                                                     | 163                        | 7,824.00                       | 346.60               |
| 75% load                                                                                                                                                      | 123                        | 5,904.00                       | 261.55               |
| 50% load                                                                                                                                                      | 86                         | 4,128.00                       | 182.87               |
| Source: MTU 16V4000 DS2250 Diesel Generator Sets manufacturer specifications (EPA Tier 2 Certified)                                                           |                            |                                |                      |
| #2 Distillate Diesel Emission factors                                                                                                                         |                            |                                |                      |
| kg CO <sub>2</sub> per gallon                                                                                                                                 | 10.21                      |                                |                      |
| kg CH <sub>4</sub> per gallon                                                                                                                                 | 0.41                       |                                |                      |
| kg N <sub>2</sub> O per gallon                                                                                                                                | 0.08                       |                                |                      |
| Source: Federal Register EPA; 40 CFR Part 98; e-CFR, June 13, 2017 (see link below). Table C-1, Table C-2, Table AA-1.<br>Note: 1 kg = 0.001 Metric Tons (MT) |                            |                                |                      |
| CO <sub>2</sub> Equivalencies                                                                                                                                 |                            |                                |                      |
| CO <sub>2</sub>                                                                                                                                               | 1                          |                                |                      |
| CH <sub>4</sub>                                                                                                                                               | 25                         |                                |                      |
| N <sub>2</sub> O                                                                                                                                              | 298                        |                                |                      |
| Source: Intergovernmental Panel on Climate Change (IPCC), Fourth Assessment                                                                                   |                            |                                |                      |

# Attachment D

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BAAQMD Health Risk Screening



## Step 1:

Plant Name **Corte Madera Town Hall**

Plant No.

## Step 3:

## Specify Source Type

Does facility have only diesel backup generators?

**yes**

Is this analysis for a gas station?

**no**

## Step 5:

## Read Estimates

Total Cancer Risk

**8.440**per  
1,000,000

Total Chronic Hazard

**0.002**

Total PM2.5 Concentration

**0.011** $\mu\text{g}/\text{m}^3$ Step 2:  
Estimate Distance

What is the distance (m) from the facility boundary to the MEI?

Step 2:  
Enter Emissions Data

| Chemical Name                                          | CAS No.          | Rate     | Risk            | Hazard  | Concentration                |
|--------------------------------------------------------|------------------|----------|-----------------|---------|------------------------------|
|                                                        | (dashes removed) | (lb/day) | (# / 1,000,000) | (index) | ( $\mu\text{g}/\text{m}^3$ ) |
| Fine Particulate Matter (PM2.5)                        |                  | 5.70E-03 |                 |         | 0.01                         |
| ACETALDEHYDE                                           | 75070            | 0.00E+00 |                 |         |                              |
| ACETAMIDE                                              | 60355            | 0.00E+00 |                 |         |                              |
| ACROLEIN                                               | 107028           | 0.00E+00 |                 |         |                              |
| ACRYLAMIDE                                             | 79061            | 0.00E+00 |                 |         |                              |
| ACRYLIC ACID                                           | 79107            | 0.00E+00 |                 |         |                              |
| ACRYLONITRILE                                          | 107131           | 0.00E+00 |                 |         |                              |
| ALLYL CHLORIDE                                         | 107051           | 0.00E+00 |                 |         |                              |
| 2-AMINOANTHRAQUINONE                                   | 117793           | 0.00E+00 |                 |         |                              |
| AMMONIA                                                | 7664417          | 0.00E+00 |                 |         |                              |
| ANILINE                                                | 62533            | 0.00E+00 |                 |         |                              |
| ARSENIC AND COMPOUNDS (INORGANIC) <sup>1,2</sup>       | 7440382          | 0.00E+00 |                 |         |                              |
| ARSINE                                                 | 7784421          | 0.00E+00 |                 |         |                              |
| ASBESTOS <sup>3</sup>                                  | 1332214          | 0.00E+00 |                 |         |                              |
| BENZENE <sup>1</sup>                                   | 71432            | 0.00E+00 |                 |         |                              |
| BENZIDINE (AND ITS SALTS) values also apply to:        | 92875            | 0.00E+00 |                 |         |                              |
| Benzidine based dyes                                   | 92875            | 0.00E+00 |                 |         |                              |
| Direct Black 38                                        | 1937377          | 0.00E+00 |                 |         |                              |
| Direct Blue 6                                          | 2602462          | 0.00E+00 |                 |         |                              |
| Direct Brown 95 (technical grade)                      | 16071866         | 0.00E+00 |                 |         |                              |
| BENZYL CHLORIDE                                        | 100447           | 0.00E+00 |                 |         |                              |
| BERYLLIUM AND COMPOUNDS <sup>2</sup>                   | 7440417          | 0.00E+00 |                 |         |                              |
| BIS(2-CHLOROETHYL)ETHER (Dichloroethyl ether)          | 111444           | 0.00E+00 |                 |         |                              |
| BIS(CHLOROMETHYL)ETHER                                 | 542881           | 0.00E+00 |                 |         |                              |
| BROMINE AND COMPOUNDS see Potassium Bromate            | 7758012          | 0.00E+00 |                 |         |                              |
| 1,3-BUTADIENE                                          | 106990           | 0.00E+00 |                 |         |                              |
| CADMIUM AND COMPOUNDS <sup>2</sup>                     | 7440439          | 0.00E+00 |                 |         |                              |
| CAPROLACTAM                                            | 105602           | 0.00E+00 |                 |         |                              |
| CARBON DISULFIDE <sup>1</sup>                          | 75150            | 0.00E+00 |                 |         |                              |
| CARBON MONOXIDE                                        | 630080           | 0.00E+00 |                 |         |                              |
| CARBON TETRACHLORIDE <sup>1</sup> (Tetrachloromethane) | 56235            | 0.00E+00 |                 |         |                              |
| CHLORINATED PARAFFINS                                  | 108171262        | 0.00E+00 |                 |         |                              |
| CHLORINE                                               | 7782505          | 0.00E+00 |                 |         |                              |
| CHLORINE DIOXIDE                                       | 10049044         | 0.00E+00 |                 |         |                              |
| 4-CHLORO-O-PHENYLENEDIAMINE                            | 95830            | 0.00E+00 |                 |         |                              |
| CHLOROBENZENE                                          | 108907           | 0.00E+00 |                 |         |                              |
| CHLOROFORM <sup>1</sup>                                | 67663            | 0.00E+00 |                 |         |                              |
| Chlorophenols                                          | 87865            | 0.00E+00 |                 |         |                              |
| PENTACHLOROPHENOL                                      | 87865            | 0.00E+00 |                 |         |                              |
| 2,4,6-TRICHLOROPHENOL                                  | 88062            | 0.00E+00 |                 |         |                              |
| CHLOROPICRIN                                           | 76062            | 0.00E+00 |                 |         |                              |
| p-CHLORO-o-TOLUIDINE                                   | 95692            | 0.00E+00 |                 |         |                              |
| CHROMIUM 6+ <sup>2</sup>                               | 18540299         | 0.00E+00 |                 |         |                              |
| Barium chromate <sup>2</sup>                           | 10294403         | 0.00E+00 |                 |         |                              |
| Calcium chromate <sup>2</sup>                          | 13765190         | 0.00E+00 |                 |         |                              |
| Lead chromate <sup>2</sup>                             | 7758976          | 0.00E+00 |                 |         |                              |
| Sodium dichromate <sup>2</sup>                         | 10588019         | 0.00E+00 |                 |         |                              |
| Strontium chromate <sup>2</sup>                        | 7789062          | 0.00E+00 |                 |         |                              |

|                                                                     |         |          |
|---------------------------------------------------------------------|---------|----------|
| CHROMIC TRIOXIDE (as chromic acid mist)                             | 1333820 | 0.00E+00 |
| COPPER AND COMPOUNDS                                                | 7440508 | 0.00E+00 |
| p-CRESIDINE                                                         | 120718  | 0.00E+00 |
| CRESOLS                                                             | 1319773 | 0.00E+00 |
| M-CRESOL                                                            | 108394  | 0.00E+00 |
| O-CRESOL                                                            | 95487   | 0.00E+00 |
| P-CRESOL                                                            | 106445  | 0.00E+00 |
| CUPFERRON                                                           | 135206  | 0.00E+00 |
| Cyanide And Compounds (inorganic)                                   | 57125   | 0.00E+00 |
| HYDROGEN CYANIDE (Hydrocyanic acid)                                 | 74908   | 0.00E+00 |
| 2,4-DIAMINONISOLE                                                   | 615054  | 0.00E+00 |
| 2,4-DIAMINOTOLUENE                                                  | 95807   | 0.00E+00 |
| 1,2-DIBROMO-3-CHLOROPROPANE (DBCP)                                  | 96128   | 0.00E+00 |
| 1,4-DICHLOROBENZENE (p-Dichlorobenzene)                             | 106467  | 0.00E+00 |
| 3,3-DICHLOROBENZIDINE                                               | 91941   | 0.00E+00 |
| 1,1,-DICHLOROETHANE (Ethylidene dichloride)                         | 75343   | 0.00E+00 |
| DI(2-ETHYLHEXYL)PHTHALATE (DEHP)                                    | 117817  | 0.00E+00 |
| DIETHANOLAMINE                                                      | 111422  | 0.00E+00 |
| p-DIMETHYLAMINOAZOBENZENE                                           | 60117   | 0.00E+00 |
| N,N-DIMETHYL FORMAMIDE                                              | 68122   | 0.00E+00 |
| 2,4-DINITROTOLUENE                                                  | 121142  | 0.00E+00 |
| 1,4-DIOXANE (1,4-Diethylene dioxide)                                | 123911  | 0.00E+00 |
| EPICHLOROHYDRIN (1-Chloro-2,3-epoxypropane)                         | 106898  | 0.00E+00 |
| 1,2-EPOXYBUTANE                                                     | 106887  | 0.00E+00 |
| ETHYL BENZENE                                                       | 100414  | 0.00E+00 |
| ETHYL CHLORIDE (Chloroethane)                                       | 75003   | 0.00E+00 |
| ETHYLENE DIBROMIDE (1,2-Dibromoethane)                              | 106934  | 0.00E+00 |
| ETHYLENE DICHLORIDE (1,2-Dichloroethane)                            | 107062  | 0.00E+00 |
| ETHYLENE GLYCOL                                                     | 107211  | 0.00E+00 |
| ETHYLENE OXIDE (1,2-Epoxyethane)                                    | 75218   | 0.00E+00 |
| ETHYLENE THIOUREA                                                   | 96457   | 0.00E+00 |
| Fluorides                                                           | 1101    | 0.00E+00 |
| HYDROGEN FLUORIDE (Hydrofluoric acid)                               | 7664393 | 0.00E+00 |
| FORMALDEHYDE                                                        | 50000   | 0.00E+00 |
| GLUTARALDEHYDE                                                      | 111308  | 0.00E+00 |
| GLYCOL ETHERS                                                       | 107211  | 0.00E+00 |
| ETHYLENE GLYCOL BUTYL ETHER – EGBE                                  | 111762  | 0.00E+00 |
| ETHYLENE GLYCOL ETHYL ETHER – EGEE <sup>1</sup>                     | 110805  | 0.00E+00 |
| ETHYLENE GLYCOL ETHYL ETHER ACETATE – EGEEA <sup>1</sup>            | 111159  | 0.00E+00 |
| ETHYLENE GLYCOL METHYL ETHER – EGME <sup>1</sup>                    | 109864  | 0.00E+00 |
| ETHYLENE GLYCOL METHYL ETHER ACETATE – EGMEA                        | 110496  | 0.00E+00 |
| HEXACHLOROBENZENE                                                   | 118741  | 0.00E+00 |
| HEXACHLOROCYCLOHEXANES (mixed or technical grade)                   | 608731  | 0.00E+00 |
| alpha-HEXACHLOROCYCLOHEXANE                                         | 319846  | 0.00E+00 |
| beta- HEXACHLOROCYCLOHEXANE                                         | 319857  | 0.00E+00 |
| gamma-HEXACHLOROCYCLOHEXANE (Lindane)                               | 58899   | 0.00E+00 |
| n-HEXANE                                                            | 110543  | 0.00E+00 |
| HYDRAZINE                                                           | 302012  | 0.00E+00 |
| HYDROCHLORIC ACID (Hydrogen chloride)                               | 7647010 | 0.00E+00 |
| HYDROGEN SULFIDE                                                    | 7783064 | 0.00E+00 |
| ISOPHORONE                                                          | 78591   | 0.00E+00 |
| ISOPROPYL ALCOHOL (Isopropanol)                                     | 67630   | 0.00E+00 |
| LEAD AND COMPOUNDS <sup>2,4</sup> (inorganic) values also apply to: | 7439921 | 0.00E+00 |
| Lead acetate <sup>2</sup>                                           | 301042  | 0.00E+00 |
| Lead phosphate <sup>2</sup>                                         | 7446277 | 0.00E+00 |
| Lead subacetate <sup>2</sup>                                        | 1335326 | 0.00E+00 |
| LINDANE [see gamma-Hexachlorocyclohexanes]                          | 58899   | 0.00E+00 |
| MALEIC ANHYDRIDE                                                    | 108316  | 0.00E+00 |
| MANGANESE AND COMPOUNDS                                             | 7439965 | 0.00E+00 |
| MERCURY AND COMPOUNDS (INORGANIC)                                   | 7439976 | 0.00E+00 |
| Mercuric chloride                                                   | 7487947 | 0.00E+00 |
| METHANOL                                                            | 67561   | 0.00E+00 |
| METHYL BROMIDE (Bromomethane)                                       | 74839   | 0.00E+00 |
| METHYL tertiary-BUTYL ETHER                                         | 1634044 | 0.00E+00 |
| METHYL CHLOROFORM (1,1,1-Trichloroethane)                           | 71556   | 0.00E+00 |
| METHYL ETHYL KETONE (2-Butanone)                                    | 78933   | 0.00E+00 |
| METHYL ISOCYANATE                                                   | 624839  | 0.00E+00 |

|                                                                                              |          |          |                   |
|----------------------------------------------------------------------------------------------|----------|----------|-------------------|
| 4,4'-METHYLENE BIS (2-CHLOROANILINE) (MOCA)                                                  | 101144   | 0.00E+00 |                   |
| METHYLENE CHLORIDE (Dichloromethane)                                                         | 75092    | 0.00E+00 |                   |
| 4,4'-METHYLENE DIANILINE (AND ITS DICHLORIDE)                                                | 101779   | 0.00E+00 |                   |
| METHYLENE DIPHENYL ISOCYANATE                                                                | 101688   | 0.00E+00 |                   |
| MICHLER'S KETONE (4,4'-Bis(dimethylamino)benzophenone)                                       | 90948    | 0.00E+00 |                   |
| N-NITROSODI-n-BUTYLAMINE                                                                     | 924163   | 0.00E+00 |                   |
| N-NITROSODI-n-PROPYLAMINE                                                                    | 621647   | 0.00E+00 |                   |
| N-NITROSODIETHYLAMINE                                                                        | 55185    | 0.00E+00 |                   |
| N-NITROSODIMETHYLAMINE                                                                       | 62759    | 0.00E+00 |                   |
| N-NITROSODIPHENYLAMINE                                                                       | 86306    | 0.00E+00 |                   |
| N-NITROSO-N-METHYLETHYLAMINE                                                                 | 10595956 | 0.00E+00 |                   |
| N-NITROSOMORPHOLINE                                                                          | 59892    | 0.00E+00 |                   |
| N-NITROSOPIPERIDINE                                                                          | 100754   | 0.00E+00 |                   |
| N-NITROSOPYRROLIDINE                                                                         | 930552   | 0.00E+00 |                   |
| NAPHTHALENE [see Polycyclic aromatic hydrocarbons]                                           | 91203    | 0.00E+00 |                   |
| NICKEL AND COMPOUNDS <sup>2</sup> (values also apply to:)                                    | 7440020  | 0.00E+00 |                   |
| Nickel acetate <sup>2</sup>                                                                  | 373024   | 0.00E+00 |                   |
| Nickel carbonate <sup>2</sup>                                                                | 3333673  | 0.00E+00 |                   |
| Nickel carbonyl <sup>2</sup>                                                                 | 13463393 | 0.00E+00 |                   |
| Nickel hydroxide <sup>2</sup>                                                                | 12054487 | 0.00E+00 |                   |
| Nickelocene <sup>2</sup>                                                                     | 1271289  | 0.00E+00 |                   |
| NICKEL OXIDE <sup>2</sup>                                                                    | 1313991  | 0.00E+00 |                   |
| Nickel refinery dust from the pyrometallurgical process <sup>2</sup>                         | 1146     | 0.00E+00 |                   |
| Nickel subsulfide <sup>2</sup>                                                               | 12035722 | 0.00E+00 |                   |
| NITRIC ACID                                                                                  | 7697372  | 0.00E+00 |                   |
| NITROGEN DIOXIDE                                                                             | 10102440 | 0.00E+00 |                   |
| p-NITROSODIPHENYLAMINE                                                                       | 156105   | 0.00E+00 |                   |
| OZONE                                                                                        | 10028156 | 0.00E+00 |                   |
| PARTICULATE EMISSIONS FROM DIESEL-FUELED ENGINES                                             | 85105    | 6.00E-03 | 8.44E+00 2.27E-03 |
| PERCHLOROETHYLENE (Tetrachloroethylene)                                                      | 127184   | 0.00E+00 |                   |
| PHENOL                                                                                       | 108952   | 0.00E+00 |                   |
| PHOSGENE                                                                                     | 75445    | 0.00E+00 |                   |
| PHOSPHINE                                                                                    | 7803512  | 0.00E+00 |                   |
| PHOSPHORIC ACID                                                                              | 7664382  | 0.00E+00 |                   |
| PHTHALIC ANHYDRIDE                                                                           | 85449    | 0.00E+00 |                   |
| PCB (POLYCHLORINATED BIPHENYLS)                                                              | 1336363  | 0.00E+00 |                   |
| POLYCHLORINATED DIBENZO-P-DIOXINS (PCDD)<br>(Treated as 2,3,7,8-TCDD for HRA) <sup>2,7</sup> | 1746016  | 0.00E+00 |                   |
| POLYCHLORINATED DIBENZOFURANS (PCDF)<br>(Treated as 2,3,7,8-TCDD for HRA) 2,7                | 1746016  | 0.00E+00 |                   |
| POLYCYCLIC AROMATIC HYDROCARBON <sup>2</sup> (PAH) (AS B[a]P-EQUIV) <sup>3</sup>             | 50328    | 0.00E+00 |                   |
| NAPHTHALENE                                                                                  | 91203    | 0.00E+00 |                   |
| POTASSIUM BROMATE                                                                            | 7758012  | 0.00E+00 |                   |
| 1,3-PROPANE SULFONE                                                                          | 1120714  | 0.00E+00 |                   |
| PROPYLENE (PROPENE)                                                                          | 115071   | 0.00E+00 |                   |
| PROPYLENE GLYCOL MONOMETHYL ETHER                                                            | 107982   | 0.00E+00 |                   |
| PROPYLENE OXIDE                                                                              | 75569    | 0.00E+00 |                   |
| SELENIUM AND COMPOUNDS                                                                       | 7782492  | 0.00E+00 |                   |
| HYDROGEN SELENIDE                                                                            | 7783075  | 0.00E+00 |                   |
| Selenium sulfide                                                                             | 7446346  | 0.00E+00 |                   |
| SILICA (Crystalline, Respirable)                                                             | 7631869  | 0.00E+00 |                   |
| SODIUM HYDROXIDE                                                                             | 1310732  | 0.00E+00 |                   |
| STYRENE                                                                                      | 100425   | 0.00E+00 |                   |
| SULFATES                                                                                     | 9960     | 0.00E+00 |                   |
| SULFUR DIOXIDE                                                                               | 7446095  | 0.00E+00 |                   |
| SULFURIC ACID                                                                                | 7664939  | 0.00E+00 |                   |
| SULFUR TRIOXIDE                                                                              | 7446719  | 0.00E+00 |                   |
| OLEUM                                                                                        | 8014957  | 0.00E+00 |                   |
| 1,1,2,2-TETRACHLOROETHANE                                                                    | 79345    | 0.00E+00 |                   |
| THIOACETAMIDE                                                                                | 62555    | 0.00E+00 |                   |
| TOLUENE                                                                                      | 108883   | 0.00E+00 |                   |
| Toluene diisocyanates                                                                        | 26471625 | 0.00E+00 |                   |
| TOLUENE-2,4-DIISOCYANATE                                                                     | 584849   | 0.00E+00 |                   |
| TOLUENE-2,6-DIISOCYANATE                                                                     | 91087    | 0.00E+00 |                   |
| 1,1,2-TRICHLOROETHANE (Vinyl trichloride)                                                    | 79005    | 0.00E+00 |                   |



|                                           |         |          |       |       |       |  |
|-------------------------------------------|---------|----------|-------|-------|-------|--|
| TRICHLOROETHYLENE                         | 79016   | 0.00E+00 |       |       |       |  |
| TRIETHYLAMINE                             | 121448  | 0.00E+00 |       |       |       |  |
| URETHANE (Ethyl carbamate)                | 51796   | 0.00E+00 |       |       |       |  |
| Vanadium Compounds                        | 7440622 | 0.00E+00 |       |       |       |  |
| Vanadium (fume or dust)                   | 7440622 | 0.00E+00 |       |       |       |  |
| VANADIUM PENTOXIDE                        | 1314621 | 0.00E+00 |       |       |       |  |
| VINYL ACETATE                             | 108054  | 0.00E+00 |       |       |       |  |
| VINYL CHLORIDE (Chloroethylene)           | 75014   | 0.00E+00 |       |       |       |  |
| VINYLDENE CHLORIDE (1,1-Dichloroethylene) | 75354   | 0.00E+00 |       |       |       |  |
| XYLENES (mixed isomers)                   | 1330207 | 0.00E+00 |       |       |       |  |
| m-XYLENE                                  | 108383  | 0.00E+00 |       |       |       |  |
| o-XYLENE                                  | 95476   | 0.00E+00 |       |       |       |  |
| p-XYLENE                                  | 106423  | 0.00E+00 |       |       |       |  |
| TOTAL UNADJUSTED Risk Values              |         |          | 8.440 | 0.002 | 0.011 |  |