

City of
SACRAMENTO
Community Development

**ADDENDUM TO AN ADOPTED SUSTAINABLE COMMUNITIES ENVIRONMENTAL
ASSESSMENT INITIAL STUDY**

The City of Sacramento, California, a municipal corporation, does hereby prepare, make declare, and publish the Addendum to an adopted Sustainable Communities Environmental Assessment Initial Study (SCEA IS) for the following described project:

Project Name and Number: S Street Townhomes SCEA IS Addendum (P17-024)

Original Project: Stockton and T Street Project (P14-042)

The City of Sacramento, Community Development Department, has reviewed the proposed project and on the basis of the whole record before it, has determined that there is no substantial evidence that the project, as identified in this Addendum, would have a significant effect on the environment beyond that which was evaluated in the attached SCEA IS. A Subsequent SCEA IS is not required pursuant to the California Environmental Quality Act of 1970 (Sections 21000, et. Seq., Public Resources Code of the State of California).

This Addendum to an adopted SCEA IS has been prepared pursuant to Title 14, Section 15164 of the California Code of Regulations; the Sacramento Local Environmental Regulations (Resolution 91-892) adopted by the City of Sacramento.

A copy of this document and all supportive documentation may be reviewed or obtained at the City of Sacramento, Community Development Department, Planning Division, 300 Richards Boulevard, Sacramento, California 95811.

Environmental Services Manager, City of Sacramento,
California, a municipal corporation

By: _____

Date: _____

S Street Townhomes (P17-024)
Addendum to Sustainable Communities Environmental Assessment Initial Study

File Number/Project Name: S Street Townhomes (P17-024)

Project Location: The proposed S Street Townhomes project is located at the northwest corner of S Street and 39th Street in the City of Sacramento, California, and identified as Assessor Parcel Number (APN) 011-0021-029 (see Attachment A). The project is bounded by U.S. Highway 50 (US 50) to the north, S Street to the south, and 39th Street to the east. The site consists of approximately 2.08 acres (90,605 square foot [sf]), and is currently occupied by a paved parking lot.

Existing Plan Designations and Zoning: The 2035 General Plan land use designations for the project site is Urban Corridor Low. The zoning designation for the project site is General Commercial Transit Overlay (C-2-TO). In April of 2013, the Sacramento City Council approved a new city-wide Planning and Development Code, which went into effect on September 30, 2013. Single-unit dwellings are permitted in the C-2-TO zone while multi-unit dwellings are permitted, subject to compliance with special use regulations in Section 17.228.117. Restaurants and retail stores up to 40,000 square feet are permitted in the C-2 Zone by right. Stores with individual retail spaces of more than 40,000 square feet require a Conditional Use Permit.

Project Background: The project site is located within an area that is identified as a Transit Priority Area in the Sacramento Area Council of Governments (SACOG) MTP/SCS. The project falls within the planning assumption that SACOG projected for the Center and Corridor Communities in the MTP/SCS.

The MTP/SCS forecast includes 69,208 new housing units and 77,098 new employees by 2035 in the City of Sacramento. Approximately 52 percent (40,091 employees) of that employment growth and 62 percent (42,909 housing units) of the housing growth is in the Center and Corridor Communities, most of which is in the Central City area.

In accordance with the Determination of MTP/SCS Consistency Worksheet (Number 3, Letter C), the project is “consistent with the use designation, density, building intensity, and applicable policies specified for the project area” in a Sustainable Communities Strategy which has been accepted by the Air Resources Board as meeting applicable greenhouse gas reduction targets. (PRC § 21159.28).

Stockton and T Street SCEA IS

The 4.92-acre (214,315 sf) Stockton and T Street project site located at 3675 T Street previously consisted of a 120,000-sf vacant office building (formerly AT&T), which was constructed in approximately 1950, and associated paved parking lot (APNs 010-0082-001,-004, and 011-0021-029).

The approved Stockton and T Street project consists of removing the 120,000-sf vacant office building and associated parking lot and subdividing the property for construction of a mixed-use

residential and commercial development. The project, as approved, includes a 214-unit, five-story, multi-family housing complex with ground floor commercial and parking garage on the corner of Stockton Boulevard and T Street along with the construction of approximately 24 single-family homes between S Street and US 50. The Stockton and T Street project and associated Sustainable Communities Environmental Assessment and Initial Study (SCEA IS) was ultimately approved by the Sacramento City Council on August 18, 2015 (Resolution No. 2014-0268).

Project Description: The approved site plan consists of a 214-unit, four-story, multi-family housing complex with ground floor commercial and parking garage and 24 single-family homes. The applicant is proposing to modify the existing site plan located between S Street and US 50 to include 41 single-family attached townhomes in place of the previously analyzed 24 single-family homes (see Attachment B and Attachment C). The 41 single-family townhomes would be built in two phases. The first phase would include the construction of the townhomes excluding the buildings on the east and west sides of the project site (see Attachment B). The second phase would be constructed once the sound barrier, identified in Mitigation Measure VIII-2, is constructed along US 50. The 214-unit, four-story, multi-family housing complex with ground floor commercial and parking garage would remain unchanged and would be constructed during the first phase.

The required entitlements for the proposed project include the following:

- Addendum to a previously approved SCEA IS;
- Tentative Map; and
- Site Plan and Design Review approval.

An Addendum to an approved IS may be prepared if only minor technical changes or additions are required, and none of the conditions identified in CEQA Guidelines Section 15162 are present. The following identifies the standards set forth in section 15162 as they relate to the project.

1. **Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;**
2. **Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or**
3. **New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:**
 - a) **The project will have one or more significant effects not discussed in the previous EIR or negative declaration;**

- b) Significant effects previously examined will be substantially more severe than shown in the previous EIR [or negative declaration];**
- c) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative, or;**
- d) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.**

Discussion

The Stockton and T Street SCEA IS (2015 SCEA IS) analyzed a 214-unit, four-story, multi-family housing complex with ground floor commercial and parking garage and 24 single-family homes. The applicant is proposing to modify the existing site plan located between S Street and US 50 to include 41 single-family attached townhomes constructed in two phases.

Impacts Covered Under the Stockton and T Street SCEA IS

The proposed project is located on the same property with the same amount of acreage that was analyzed as part of the 2015 SCEA IS; therefore, potential impacts related to Biological Resources, Cultural Resources, Geology and Soils, Hazards, and Hydrology and Water Quality resulting from the proposed project would be covered under the 2015 SCEA IS.

Although the proposed project includes additional single-family units compared to what was analyzed as part of the 2015 SCEA IS, implementation of Policies ERC 1.1.2, 1.1.5, 2.1.1, 2.4.2, 2.5.4, MTP/SCS EIR MM PS-1, and project specific mitigation measures IX-1 and X-1 would ensure potential impacts related to Public Services and Recreation would be less than significant. Therefore, potential impacts resulting from the proposed project would be covered under the 2015 SCEA IS.

The proposed project would generate an increased amount of water demand, solid waste, and wastewater treatment from what is currently on-site; however, the change from 24-single family units to 41 townhomes is still within the type and intensity of development anticipated for the site in the Sacramento Master EIR. Thus, as discussed in the 2015 SCEA IS the projected water demand, solid waste and wastewater generation of the proposed project was included in the Sacramento Master EIR, which concluded that at full buildout of the 2030 General Plan, capacities would not be exceeded. Therefore, potential impacts related to water supply, solid waste, and wastewater treatment resulting from the proposed project would change the analysis and conclusion presented in the 2015 SCEA IS.

The proposed project would include improvements to the existing City Combined Sewer System (CSS) lines to handle the increase in equivalent dwelling units (EDUs) generated from project implementation. However, according to the Sewer Study prepared for the Stockton and T SCEA IS, the existing CSS pipes have not been field surveyed. Therefore, implementation of project specific mitigation measure XII-1 would be needed to reduce the impact to a less-than-significant level. As a result, potential impacts resulting from the proposed project would be covered under the 2015 SCEA IS because with the change from 24-single family units to 41 townhomes the proposed project would still be consistent with the Sacramento Master EIR, and therefore would not exceed what was previously assumed during buildout of the Master EIR.

New Potential Impacts Discussion

Any potential impacts beyond those previously identified and addressed in the 2015 SCEA IS are discussed below.

Air Quality

The 2015 SCEA IS included a detailed analysis of construction-related and operational air quality emissions. The previous analysis included estimation of emissions from the entire project using the California Emissions Estimator Model (CalEEMod) version 2013.2.2 software - a statewide model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify air quality emissions, including GHG emissions, from land use projects. Because the proposed project involves construction and operation of 41 townhomes, in place of the previously analyzed 24 single-family homes, the potential air quality emissions of the proposed townhomes portion of the project was compared to the previously approved single-family home portion of the project. Since the 2015 analysis, the CalEEMod software has been updated; as such, the more recent CalEEMod software, version 2016.3.1, was used to model both the potential emissions of the proposed townhomes and the previously approved single-family homes, separately. The model applies inherent default values for various land uses, including trip generation rates based on the Institute of Transportation Engineers (ITE) Manual, vehicle mix, trip length, average speed, etc. However, where project-specific data was available, such data was input into the model (i.e., vehicle trip rates). The results of the emissions estimations for the project as proposed and as originally approved are compared in Table 1, below. All CalEEMod modeling results are included in Attachment D to this Addendum.

As shown in Table 1, the proposed project would result in increased operational emissions of NO_x, ROG, and PM₁₀, but emissions during construction would be approximately equal. Although the proposed project would result in increased emissions of the aforementioned air pollutants during project operations, an increase in emission does not necessarily mean that the proposed project would result in new or significantly more severe impacts. Rather, the proposed project would only result in new or significantly more severe impacts if the emissions of the proposed project were to violate the project-level mass emissions thresholds of significance adopted by the Sacramento Metropolitan Air Quality Management District (SMAQMD). Table 2, below, compares the estimated project emissions of NO_x and ROG to SMAQMD's adopted emissions standards for project operations. Additionally, Table 3 compares the project's emissions of PM₁₀ and PM_{2.5} to SMAQMD's recently adopted mass emissions thresholds for PM.

Pollutant	Project Emissions as Approved (lbs/day)	Project Emissions as Proposed (lbs/day)	Difference
Construction			
NO _x	24.41	24.41	0
ROG	5.74	5.75	+0.01
PM ₁₀	7.63	7.63	0
PM _{2.5}	4.45	4.45	0
Operation			
NO _x	1.96	2.94	+0.98
ROG	1.47	1.85	+0.38
PM ₁₀	1.10	1.67	+0.57
PM _{2.5}	0.32	0.49	+0.17

Source: CalEEMod, June 2017 (see Appendix A).

Pollutant	Project Emissions (lbs/day)	Threshold of Significance (lbs/day)
Construction		
NO _x	24.41	85
Operational		
NO _x	2.94	65
ROG	1.85	65

Source: CalEEMod, June 2017 (see Appendix A).

Pollutant	Project Construction Emissions (lbs/day)	Construction Thresholds (lbs/day)	Project Operational Emissions (lbs/day)	Operational Thresholds (lbs/day)	Project Operational Emissions (tons/yr)	Operational Thresholds (tons/yr)
PM ₁₀	7.63	80	1.67	80	0.29	14.6
PM _{2.5}	4.45	82	0.49	82	0.09	15

Source: CalEEMod, June 2017 (see Appendix A).

As shown in Table 2 and Table 3 above, the proposed project would not result in emissions of NO_x, ROG, PM₁₀, or PM_{2.5} in excess of SMAQMD's standards. Although the proposed project would result in operational emissions in excess of the previously approved single-family development for the project site, the proposed project's emissions would not exceed SMAQMD's thresholds of significance. For example, whereas the previously approved project was anticipated to result in operational NO_x emissions of 1.96 lb/s per day, or 83.04 lbs below the applicable threshold of significance, the proposed project's operational NO_x emissions were estimated to be 2.94 lbs/day, or 82.06 lbs below the threshold. Because the proposed project's emissions would not exceed SMAQMD's thresholds, the proposed project would not result in any new or significantly more severe impacts compared to the previously approved project.

Toxic Air Contaminants

The 2015 SCEA IS included an analysis of the potential for the Stockton and T Street Mixed-Use Project to result in the exposure of sensitive receptors to substantial pollutant concentrations. The 2015 SCEA IS concluded that the Stockton and T Street Mixed-Use Project would not result in substantial emissions of toxic air contaminants (TAC) or other pollutants of concern, including carbon monoxide (CO).

The proposed project is of a similar residential nature as the Stockton and T Street Mixed-Use project; therefore, the proposed project is not anticipated to result in any new or significantly more intense sources of TAC emissions. Emissions of CO can be a concern if a project degrades operations of an intersection or roadway, causing heavy traffic congestion and car idling. However, as discussed in the Transportation and Circulation section of this Addendum, the proposed project would not result in any new or significantly more severe impacts to intersections or roadway segments in the project area. Because the proposed project would not result in the degradation of traffic operations in the area, and the proposed project would not involve new sources of TAC emissions, the proposed project would not result in any new or significantly more severe impacts related to the exposure of sensitive receptors to substantial pollutant concentrations.

Greenhouse Gas Emissions

The 2015 SCEA IS analyzed the Stockton and T Street Mixed-Use Project's potential impacts related to greenhouse gas (GHG) emissions. At the time of previous analysis, the City of Sacramento relied on a Climate Action Plan (CAP) Consistency Review Checklist to assess a project's compliance with its adopted CAP and its potential GHG impacts. A CAP Consistency Review Checklist was completed for the previous project, and the project was found to be predominantly consistent with the City's CAP Checklist. However, at the time of analysis for the 2015 SCEA IS, the Stockton and T Street Mixed-Use Project's consistency with the energy and water conservation portions of the CAP Checklist could not be verified. Therefore, the 2015 SCEA IS imposed Mitigation Measures I-1 and I-2, the implementation of which would ensure that the Stockton and T Street Mixed-Use Project would satisfy the City's CAP Checklist to show compliance with the City's CAP. The City continues to use the CAP Consistency as a method of evaluation of a project's potential impacts related to GHG emissions.

To assess the currently proposed project's potential to result in impacts related to GHG emissions, a review of the proposed project for consistency with the CAP utilizing the CAP Consistency Review Checklist (see Attachment E). Similar to the conclusion of the 2015 SCEA IS, the proposed project requires inclusion of on-site renewable energy systems, and compliance with the Tier 1 water efficiency standards of the California Green Building Standards Code (CALGreen Code). Since the approval of the 2015 SCEA IS, the 2016 California Building Code, including new CALGreen Tier 1 standards and updates to the California Building Energy Efficiency Standards, has been adopted. The 2016 California Building Energy Efficiency Standards includes efficiency measures to reduce residential energy demand by 28 percent, as compared to the 2013 energy efficiency standards. The City's CAP Checklist includes an option for residential projects that do not include on-site renewable energy systems to exceed the 2013 Title 24 energy efficiency standards by 10 percent and remain consistent with the CAP. Because the proposed project would be constructed to the

current 2016 Title 24 Standards, the proposed project's compliance with current building codes would fulfill the energy efficiency requirements of the CAP. Furthermore, adherence to the 2016 CALGreen Tier 1 water efficiency standards is assumed to meet or exceed the requirements of the 2013 CALGreen Tier 1 water efficiency standards described in the CAP Checklist. The proposed project shall be required to adhere to the most up-to-date CALGreen Tier 1 water efficiency standards to ensure continued compliance with the City's CAP Checklist. Therefore, Mitigation Measures I-1 and I-2 of the 2015 SCEA IS shall be revised, as shown below based on the changes in State legislation. New text is shown as double underlined and removed text is shown as ~~struck through~~, as follows:

I-1 In conjunction with building plan approvals, the project applicant shall demonstrate on the plans via notation, which may reference a separate report, that the project design would comply with the requirements of the 2016 Title 24, which would result in an exceedance of the 2013 California Building Energy Efficiency Standards Code by a minimum of 28 percent. ~~include one of the following:~~

- ~~• On-site renewable energy systems (e.g., photovoltaic systems) that would generate a minimum of 15 percent of the project's total energy demand on-site;~~
- ~~• Measures that would exceed the 2013 California Building Energy Efficiency Standards Code (effective January 1, 2014) by 10 percent for the residential portion of the project and by 5 percent for the commercial portion of the project, which could include, but would not be limited to, use of on-site renewable energy systems for a portion of the project's total energy demand and installation of energy-efficient appliances and lighting; or,~~
- ~~• Features anticipated to reduce VMT below 15.9 VMT/Capita. Such features may include, but are not limited to: land use, transportation, bicycle, or pedestrian improvements, attributes or amenities. Using an appropriate GHG emissions estimator model (e.g., CalEEMod), the applicant shall demonstrate a reduction of GHG emissions equivalent to a reduction of the project's energy demand by 15 percent or more.~~

The plans shall be subject to review and approval by the Community Development Department.

I-2 In conjunction with building plan approvals, the project applicant shall submit a CALGreen checklist demonstrating how the project meets the 2013 2016 CALGreen Tier 1 water efficiency and conservation standards. The checklist shall be subject to review and approval by the Community Development Department.

Implementation of the updated mitigation measures presented above would ensure that the proposed project would not result in any new or significantly more severe impacts related to GHG emissions.

Transportation and Circulation

A Transportation Impact Study (TIS) was prepared by Fehr & Peers for the 2015 SCEA IS. The TIS analyzed the transportation impacts associated with a 214-unit, four-story, multi-family housing complex with 6,000 square feet of ground floor commercial, and 24 single-family homes. The proposed project is proposing to modify the existing site plan located between S Street and US 50 to include 41 single-family attached townhomes in place of the previously analyzed 24 single-family homes. The City of Sacramento prepared a comparison memo of how the proposed project' trip generation compares to the trip generation estimate prepared in the TIS (see Attachment F).

Although the proposed project includes additional single-family units compared to what was analyzed as part of the 2015 SCEA IS, after accounting for internal, pass-by, and external walk/bike/transit trips, the proposed project is expected to reduce total daily AM and PM peak hour trips, as seen in Table 4.

Table 4 Trip Generation Comparison Between the Approved P14-042 Project and the Proposed P17-024 Project								
	Land Use	AM Peak Hour Trips			PM Peak Hour Trips			Daily Trips
		In	Out	Total	In	Out	Total	
P14-042 - Approved Project Trip Generation	24 Single-Family Residential Units	8	21	29	20	11	31	283
P17-024 - Proposed Project Trip Generation	41 Townhome Residential Units	4	21	25	19	10	29	296
Net Trip Difference		-4	0	-4	-1	-1	-2	13
Notes: Trip rates for the revised 2017 project based on data published in Trip Generation 9 th Edition (ITE, 2012).								
Source: City of Sacramento. S Street Townhomes (P17-024)-Traffic Assessment, Memo. June 13 2017.								

Because the 41 townhome units would generate fewer peak hour vehicle trips than the 24 single-family units, impacts related to transportation and circulation would be less than what has been identified for the original project. Therefore, the proposed project would not have substantial changes that would create new circumstances or an increase in impacts related to transportation and circulation beyond what was identified in the 2015 SCEA IS. As a result, potential impacts resulting from the proposed project would be covered under the 2015 SCEA IS.

Noise

The proposed project would modify the existing site plan located between S Street and US 50 to include 41 single-family attached townhomes in place of the previously analyzed 24 single-family homes. The proposed project would increase the total number of units; however, according to the Traffic Assessment Memo prepared by the City of Sacramento, the daily AM and PM peak hour vehicle trips generated by the project would be reduced. According to the Stockton and T Street Noise Analysis Addendum Letter prepared by j.c. brennan and associates (see Attachment G), traffic noise associated with the project would be less than that of the original project and would remain less than significant.

It should be noted that while the previous SCEA provided an analysis of potential impacts of traffic noise on future project residents, recent case law has determined that impacts of the environment on a project (as opposed to impacts of a project on the environment) are beyond the scope of required California Environmental Quality Act (CEQA) review. “[T]he purpose of an EIR is to identify the significant effects of a project on the environment, not the significant effects of the environment on the project.” (*Ballona Wetlands Land Trust v. City of Los Angeles*, (2011) 201 Cal.App.4th 455, 473 (*Ballona*)). The California Supreme Court recently held that “CEQA does not generally require an agency to consider the effects of existing environmental conditions on a proposed project’s future users or residents. What CEQA does mandate... is an analysis of how a project might exacerbate existing environmental hazards.” (*California Building Industry Assn. v. Bay Area Air Quality Management Dist.* (2015) 62 Cal.4th 369, 392; see also *Mission Bay Alliance v. Office of Community Investment & Infrastructure* (2016) 6 Cal.App.5th 160, 197 [“identifying the effects on the project and its users of locating the project in a particular environmental setting is neither consistent with CEQA’s legislative purpose nor required by the CEQA statutes”], quoting *Ballona, supra*, 201 Cal.App.4th at p. 474.) Therefore, for the purposes of the CEQA analysis, the relevant inquiry is not whether the proposed project’s future users or residents will be exposed to preexisting environmental noise-related hazards, but instead whether project-generated noise will exacerbate the pre-existing conditions.

Consequently, the potentially significant impact identified in the previous SCEA regarding traffic noise effects on future project residents is no longer applicable to the proposed project per CEQA. Thus, Mitigation Measure VIII-2 of the Initial Study, which was included to mitigate the aforementioned potentially significant impact, has been removed as a mitigation measure.

Based on the discussion above, the proposed project would not have substantial changes that would create new circumstances or an increase in impacts related to transportation and circulation beyond what was identified in the 2015 SCEA IS. As a result, potential impacts resulting from the proposed project would be covered under the 2015 SCEA IS and the City’s approach to the existing noise environment.

Energy

Since the approval of the original project, the City has adopted the 2035 General Plan. One of the key goals of the General Plan is to continue the City’s policy of encouraging new development within the City limits, avoiding sprawl, and reducing vehicle miles traveled. The proposed project would be consistent with the General Plan’s intentions. In addition, as discussed above, the proposed project would be required to comply with the CALGreen Code and California Building Energy Efficiency Standards Code, which include numerous requirements regarding energy efficiency in buildings. Because the proposed project would comply with the City’s General Plan CAP Policies and Programs, CALGreen Code, and California Building Energy Efficiency Standards Code, the proposed project would not be expected to result in wasteful or inefficient energy usage.

Conclusion

As established in the discussions above regarding the potential effects of the proposed project, substantial changes are not proposed to the project nor have any substantial changes occurred

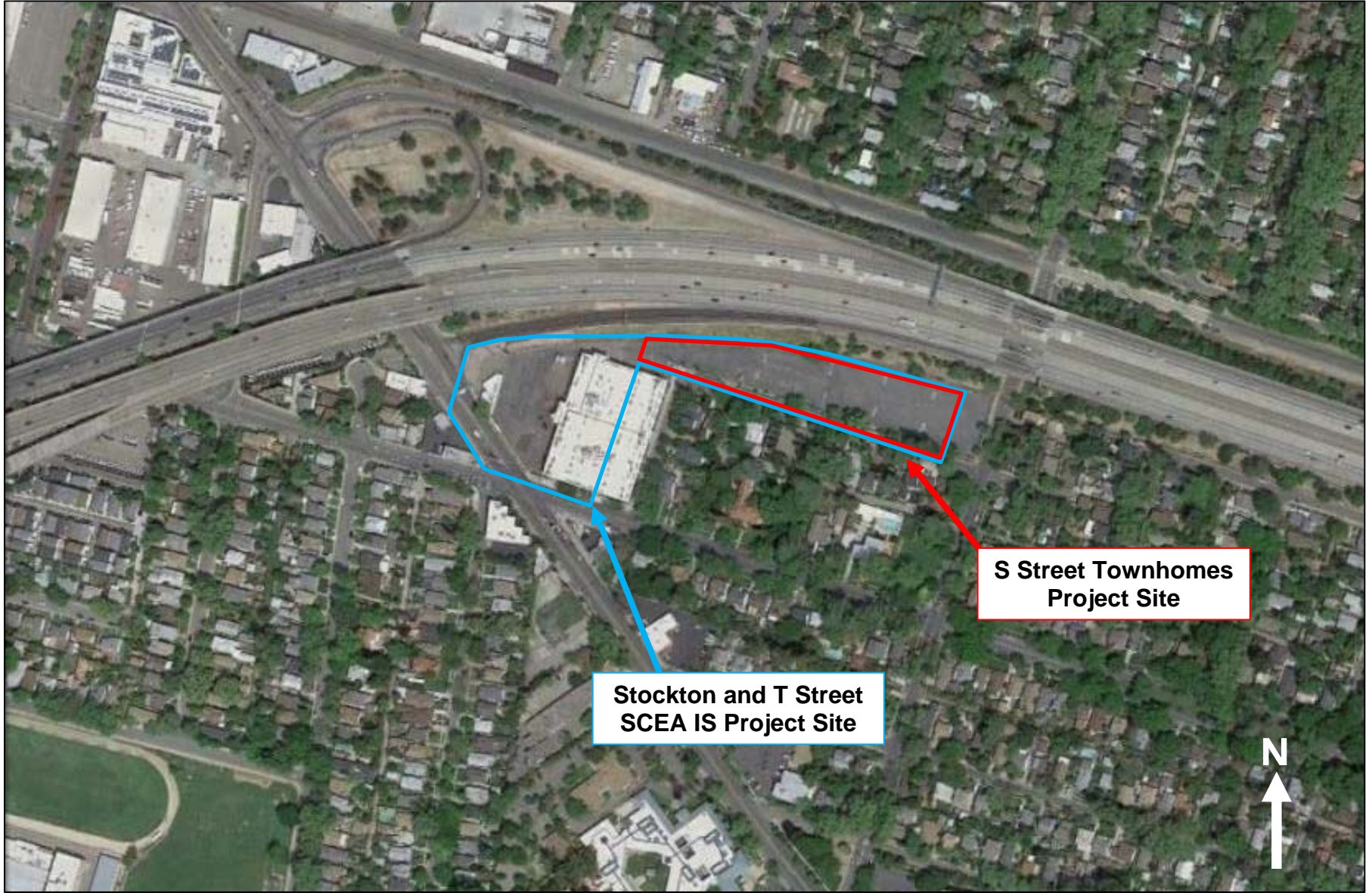
that would require major revisions to the 2015 SCEA IS. Due to the proposed reduction in daily AM and PM peak hour trips in comparison to the originally approved project, impacts beyond those identified and analyzed in the 2015 SCEA IS would not result. Overall, the proposed modifications to the project would not result in any new information of substantial importance that would have new, more severe impacts, new mitigation measures, or new or revised alternatives from what was identified for the original project in the 2015 SCEA IS. As such, the proposed project would not result in any conditions identified in CEQA guidelines section 15162, and a subsequent SCEA IS is not required.

Based on the above analysis, this Addendum to the previously Adopted SCEA IS for the project has been prepared.

Attachments:

- A) Vicinity Map
- B) Site Plan (with proposed phasing)
- C) Project Renderings
- D) CalEEMod Modeling Results
- E) CAP Consistency Review Checklist
- F) Traffic Assessment Memo
- G) Stockton and T Street Noise Analysis Addendum Letter

ATTACHMENT A
VICINITY MAP



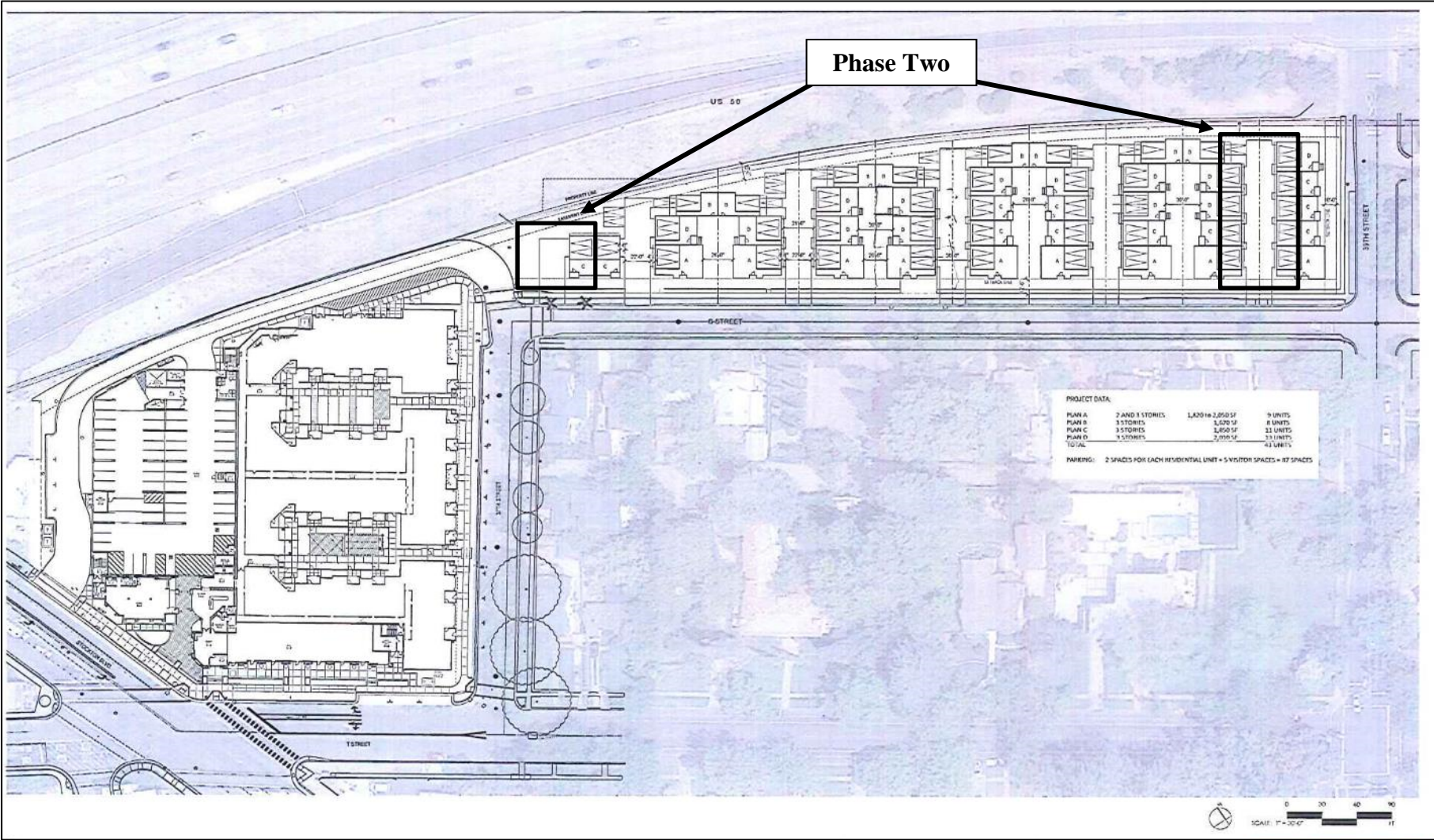
**Stockton and T Street
SCEA IS Project Site**

**S Street Townhomes
Project Site**



ATTACHMENT B
NEW SITE PLAN
(WITH PROPOSED PHASING)

Phase Two



ATTACHMENT C
PROJECT RENDERINGS



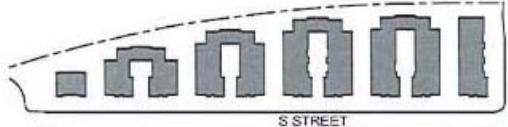
OVERALL MASSING AND LAYOUT

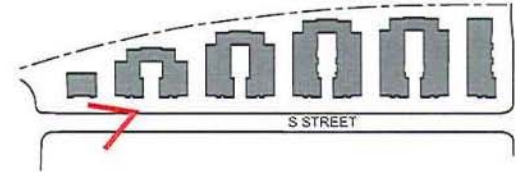


CONCEPTUAL ELEVATION FACING S ST.

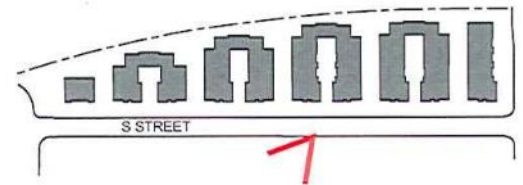


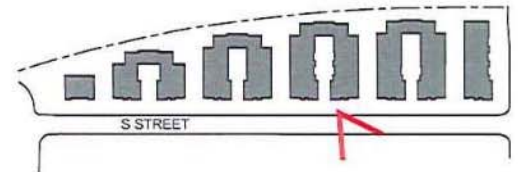
COURTYARD LANDSCAPING



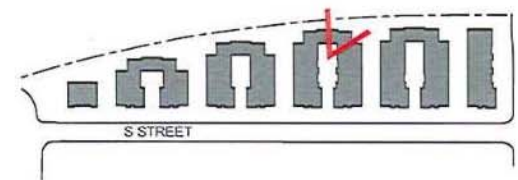


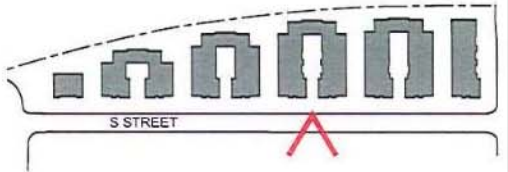


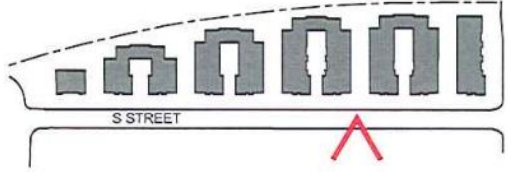


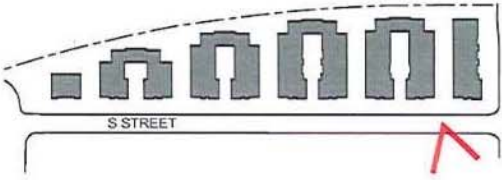


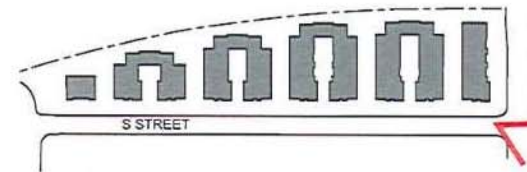






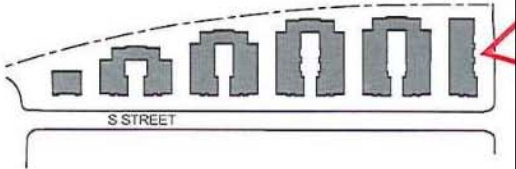


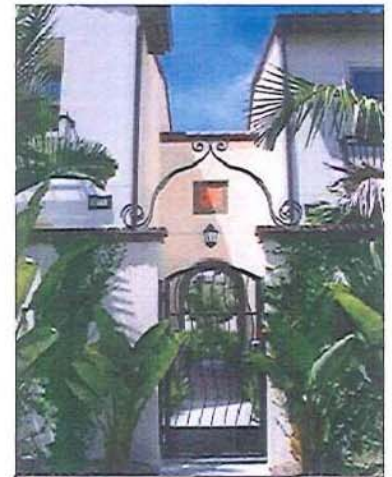






39th Street





ATTACHMENT D
CALEEMOD MODELING RESULTS

Stockton and T Addendum (As Proposed - Sacramento County, Annual

**Stockton and T Addendum (As Proposed
Sacramento County, Annual**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	41.00	Dwelling Unit	2.08	41,000.00	109

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	470.36	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Adjusted for SMUD progress towards RPS

Land Use - *

Construction Phase - *

Grading - *

Vehicle Trips - City provided Traffic Information

Energy Use - Adjusted per 2016 Title 24

Area Mitigation -

Stockton and T Addendum (As Proposed - Sacramento County, Annual)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	220.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	10/17/2019	12/27/2018
tblConstructionPhase	PhaseEndDate	11/29/2018	12/13/2018
tblConstructionPhase	PhaseEndDate	12/13/2018	2/8/2018
tblConstructionPhase	PhaseStartDate	12/14/2018	2/23/2018
tblConstructionPhase	PhaseStartDate	1/26/2018	2/9/2018
tblConstructionPhase	PhaseStartDate	11/30/2018	1/26/2018
tblEnergyUse	T24E	432.17	311.16
tblEnergyUse	T24NG	22,612.97	16,281.34
tblGrading	AcresOfGrading	3.00	2.08
tblGrading	AcresOfGrading	4.50	0.00
tblLandUse	LotAcreage	2.56	2.08
tblProjectCharacteristics	CO2IntensityFactor	590.31	470.36
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	5.67	7.22
tblVehicleTrips	SU_TR	4.84	7.22
tblVehicleTrips	WD_TR	5.81	7.22

2.0 Emissions Summary

Stockton and T Addendum (As Proposed - Sacramento County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	0.8225	0.8225
2	4-1-2018	6-30-2018	0.9450	0.9450
3	7-1-2018	9-30-2018	0.9553	0.9553
		Highest	0.9553	0.9553

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	0.1988	4.9200e-003	0.4249	2.0000e-005		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	0.6907	0.6907	6.8000e-004	0.0000	0.7076
Energy	4.1900e-003	0.0358	0.0153	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	88.9284	88.9284	3.7200e-003	1.3700e-003	89.4284
Mobile	0.1121	0.4770	1.3348	3.5500e-003	0.2835	4.4500e-003	0.2880	0.0761	4.2000e-003	0.0803	0.0000	325.8358	325.8358	0.0178	0.0000	326.2795
Waste						0.0000	0.0000		0.0000	0.0000	3.8284	0.0000	3.8284	0.2263	0.0000	9.4847
Water						0.0000	0.0000		0.0000	0.0000	0.9451	4.0973	5.0424	3.5100e-003	2.1100e-003	5.7581
Total	0.3151	0.5177	1.7750	3.8000e-003	0.2835	9.6800e-003	0.2932	0.0761	9.4300e-003	0.0855	4.7735	419.5521	424.3256	0.2519	3.4800e-003	431.6583

Stockton and T Addendum (As Proposed - Sacramento 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	0.1868	4.9200e-003	0.4249	2.0000e-005		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	0.6907	0.6907	6.8000e-004	0.0000	0.7076
Energy	4.1900e-003	0.0358	0.0153	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	88.9284	88.9284	3.7200e-003	1.3700e-003	89.4284
Mobile	0.1121	0.4770	1.3348	3.5500e-003	0.2835	4.4500e-003	0.2880	0.0761	4.2000e-003	0.0803	0.0000	325.8358	325.8358	0.0178	0.0000	326.2795
Waste						0.0000	0.0000		0.0000	0.0000	3.8284	0.0000	3.8284	0.2263	0.0000	9.4847
Water						0.0000	0.0000		0.0000	0.0000	0.9451	4.0973	5.0424	3.5100e-003	2.1100e-003	5.7581
Total	0.3031	0.5177	1.7750	3.8000e-003	0.2835	9.6800e-003	0.2932	0.0761	9.4300e-003	0.0855	4.7735	419.5521	424.3256	0.2519	3.4800e-003	431.6583

	ROG	NOx	CO	SO2	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	3.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Stockton and T Addendum (As Proposed - Sacramento County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/12/2018	5	10	
2	Site Preparation	Site Preparation	1/13/2018	1/17/2018	5	3	
3	Grading	Grading	1/18/2018	1/25/2018	5	6	
4	Building Construction	Building Construction	2/9/2018	12/13/2018	5	220	
5	Paving	Paving	1/26/2018	2/8/2018	5	10	
6	Architectural Coating	Architectural Coating	2/23/2018	12/27/2018	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.08

Acres of Paving: 0

Residential Indoor: 83,025; Residential Outdoor: 27,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Stockton and T Addendum (As Proposed - Sacramento 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	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Stockton and T Addendum (As Proposed - Sacramento County, Annual

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	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	30.00	4.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0124	0.1218	0.0756	1.2000e-004		7.1800e-003	7.1800e-003		6.7100e-003	6.7100e-003	0.0000	10.8462	10.8462	2.7500e-003	0.0000	10.9148
Total	0.0124	0.1218	0.0756	1.2000e-004		7.1800e-003	7.1800e-003		6.7100e-003	6.7100e-003	0.0000	10.8462	10.8462	2.7500e-003	0.0000	10.9148

Stockton and T Addendum (As Proposed - Sacramento County, Annual

3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.1000e-004	2.2300e-003	1.0000e-005	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4517	0.4517	2.0000e-005	0.0000	0.4521
Total	2.9000e-004	2.1000e-004	2.2300e-003	1.0000e-005	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4517	0.4517	2.0000e-005	0.0000	0.4521

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	0.0124	0.1218	0.0756	1.2000e-004		7.1800e-003	7.1800e-003		6.7100e-003	6.7100e-003	0.0000	10.8461	10.8461	2.7500e-003	0.0000	10.9148
Total	0.0124	0.1218	0.0756	1.2000e-004		7.1800e-003	7.1800e-003		6.7100e-003	6.7100e-003	0.0000	10.8461	10.8461	2.7500e-003	0.0000	10.9148

Stockton and T Addendum (As Proposed - Sacramento County, Annual

3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.1000e-004	2.2300e-003	1.0000e-005	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4517	0.4517	2.0000e-005	0.0000	0.4521
Total	2.9000e-004	2.1000e-004	2.2300e-003	1.0000e-005	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4517	0.4517	2.0000e-005	0.0000	0.4521

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0354	0.0191	4.0000e-005		1.4300e-003	1.4300e-003		1.3200e-003	1.3200e-003	0.0000	3.3590	3.3590	1.0500e-003	0.0000	3.3851
Total	2.8500e-003	0.0354	0.0191	4.0000e-005	0.0000	1.4300e-003	1.4300e-003	0.0000	1.3200e-003	1.3200e-003	0.0000	3.3590	3.3590	1.0500e-003	0.0000	3.3851

Stockton and T Addendum (As Proposed - Sacramento County, Annual

3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0834	0.0834	0.0000	0.0000	0.0835
Total	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0834	0.0834	0.0000	0.0000	0.0835

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0354	0.0191	4.0000e-005		1.4300e-003	1.4300e-003		1.3200e-003	1.3200e-003	0.0000	3.3590	3.3590	1.0500e-003	0.0000	3.3851
Total	2.8500e-003	0.0354	0.0191	4.0000e-005	0.0000	1.4300e-003	1.4300e-003	0.0000	1.3200e-003	1.3200e-003	0.0000	3.3590	3.3590	1.0500e-003	0.0000	3.3851

Stockton and T Addendum (As Proposed - Sacramento County, Annual

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0834	0.0834	0.0000	0.0000	0.0835
Total	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0834	0.0834	0.0000	0.0000	0.0835

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0192	0.0000	0.0192	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4500e-003	0.0729	0.0311	6.0000e-005		3.5000e-003	3.5000e-003		3.2200e-003	3.2200e-003	0.0000	5.6539	5.6539	1.7600e-003	0.0000	5.6979
Total	6.4500e-003	0.0729	0.0311	6.0000e-005	0.0192	3.5000e-003	0.0227	0.0101	3.2200e-003	0.0133	0.0000	5.6539	5.6539	1.7600e-003	0.0000	5.6979

Stockton and T Addendum (As Proposed - Sacramento County, Annual

3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.0300e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2085	0.2085	1.0000e-005	0.0000	0.2087
Total	1.3000e-004	1.0000e-004	1.0300e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2085	0.2085	1.0000e-005	0.0000	0.2087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0192	0.0000	0.0192	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4500e-003	0.0729	0.0311	6.0000e-005		3.5000e-003	3.5000e-003		3.2200e-003	3.2200e-003	0.0000	5.6539	5.6539	1.7600e-003	0.0000	5.6979
Total	6.4500e-003	0.0729	0.0311	6.0000e-005	0.0192	3.5000e-003	0.0227	0.0101	3.2200e-003	0.0133	0.0000	5.6539	5.6539	1.7600e-003	0.0000	5.6979

Stockton and T Addendum (As Proposed - Sacramento County, Annual

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.0300e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2085	0.2085	1.0000e-005	0.0000	0.2087
Total	1.3000e-004	1.0000e-004	1.0300e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2085	0.2085	1.0000e-005	0.0000	0.2087

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3204	2.2778	1.7290	2.7500e-003		0.1383	0.1383		0.1326	0.1326	0.0000	232.4891	232.4891	0.0501	0.0000	233.7412
Total	0.3204	2.2778	1.7290	2.7500e-003		0.1383	0.1383		0.1326	0.1326	0.0000	232.4891	232.4891	0.0501	0.0000	233.7412

Stockton and T Addendum (As Proposed - Sacramento County, Annual

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3900e-003	0.0571	0.0189	1.1000e-004	2.5700e-003	4.5000e-004	3.0200e-003	7.4000e-004	4.3000e-004	1.1700e-003	0.0000	10.5497	10.5497	6.8000e-004	0.0000	10.5667
Worker	0.0147	0.0107	0.1131	2.5000e-004	0.0242	1.8000e-004	0.0244	6.4500e-003	1.7000e-004	6.6200e-003	0.0000	22.9345	22.9345	7.8000e-004	0.0000	22.9540
Total	0.0171	0.0678	0.1320	3.6000e-004	0.0268	6.3000e-004	0.0274	7.1900e-003	6.0000e-004	7.7900e-003	0.0000	33.4842	33.4842	1.4600e-003	0.0000	33.5208

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	0.3204	2.2778	1.7290	2.7500e-003		0.1383	0.1383		0.1326	0.1326	0.0000	232.4888	232.4888	0.0501	0.0000	233.7409
Total	0.3204	2.2778	1.7290	2.7500e-003		0.1383	0.1383		0.1326	0.1326	0.0000	232.4888	232.4888	0.0501	0.0000	233.7409

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3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	2.3900e-003	0.0571	0.0189	1.1000e-004	2.5700e-003	4.5000e-004	3.0200e-003	7.4000e-004	4.3000e-004	1.1700e-003	0.0000	10.5497	10.5497	6.8000e-004	0.0000	10.5667
Worker	0.0147	0.0107	0.1131	2.5000e-004	0.0242	1.8000e-004	0.0244	6.4500e-003	1.7000e-004	6.6200e-003	0.0000	22.9345	22.9345	7.8000e-004	0.0000	22.9540
Total	0.0171	0.0678	0.1320	3.6000e-004	0.0268	6.3000e-004	0.0274	7.1900e-003	6.0000e-004	7.7900e-003	0.0000	33.4842	33.4842	1.4600e-003	0.0000	33.5208

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093

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3.6 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217
Total	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093

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3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217
Total	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2566					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0329	0.2206	0.2040	3.3000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	28.0858	28.0858	2.6700e-003	0.0000	28.1526
Total	0.2894	0.2206	0.2040	3.3000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	28.0858	28.0858	2.6700e-003	0.0000	28.1526

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3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9400e-003	2.1300e-003	0.0226	5.0000e-005	4.8500e-003	4.0000e-005	4.8800e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	4.5869	4.5869	1.6000e-004	0.0000	4.5908
Total	2.9400e-003	2.1300e-003	0.0226	5.0000e-005	4.8500e-003	4.0000e-005	4.8800e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	4.5869	4.5869	1.6000e-004	0.0000	4.5908

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	0.2566					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0329	0.2206	0.2040	3.3000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	28.0858	28.0858	2.6700e-003	0.0000	28.1525
Total	0.2894	0.2206	0.2040	3.3000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	28.0858	28.0858	2.6700e-003	0.0000	28.1525

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3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9400e-003	2.1300e-003	0.0226	5.0000e-005	4.8500e-003	4.0000e-005	4.8800e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	4.5869	4.5869	1.6000e-004	0.0000	4.5908
Total	2.9400e-003	2.1300e-003	0.0226	5.0000e-005	4.8500e-003	4.0000e-005	4.8800e-003	1.2900e-003	3.0000e-005	1.3200e-003	0.0000	4.5869	4.5869	1.6000e-004	0.0000	4.5908

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Stockton and T Addendum (As Proposed - Sacramento County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.1121	0.4770	1.3348	3.5500e-003	0.2835	4.4500e-003	0.2880	0.0761	4.2000e-003	0.0803	0.0000	325.8358	325.8358	0.0178	0.0000	326.2795
Unmitigated	0.1121	0.4770	1.3348	3.5500e-003	0.2835	4.4500e-003	0.2880	0.0761	4.2000e-003	0.0803	0.0000	325.8358	325.8358	0.0178	0.0000	326.2795

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	296.02	296.02	296.02	759,620	759,620
Total	296.02	296.02	296.02	759,620	759,620

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
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.547085	0.042365	0.202414	0.127049	0.023381	0.005779	0.018348	0.021363	0.002103	0.002394	0.006067	0.000620	0.001032

5.0 Energy Detail

Historical Energy Use: N

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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	47.4272	47.4272	2.9200e-003	6.0000e-004	47.6806
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	47.4272	47.4272	2.9200e-003	6.0000e-004	47.6806
NaturalGas Mitigated	4.1900e-003	0.0358	0.0153	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5011	41.5011	8.0000e-004	7.6000e-004	41.7478
NaturalGas Unmitigated	4.1900e-003	0.0358	0.0153	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5011	41.5011	8.0000e-004	7.6000e-004	41.7478

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					
Condo/Townhouse	777702	4.1900e-003	0.0358	0.0153	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5011	41.5011	8.0000e-004	7.6000e-004	41.7478
Total		4.1900e-003	0.0358	0.0153	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5011	41.5011	8.0000e-004	7.6000e-004	41.7478

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5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Condo/Townhouse	777702	4.1900e-003	0.0358	0.0153	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5011	41.5011	8.0000e-004	7.6000e-004	41.7478
Total		4.1900e-003	0.0358	0.0153	2.3000e-004		2.9000e-003	2.9000e-003		2.9000e-003	2.9000e-003	0.0000	41.5011	41.5011	8.0000e-004	7.6000e-004	41.7478

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	222296	47.4272	2.9200e-003	6.0000e-004	47.6806
Total		47.4272	2.9200e-003	6.0000e-004	47.6806

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Condo/Townhouse	222296	47.4272	2.9200e-003	6.0000e-004	47.6806
Total		47.4272	2.9200e-003	6.0000e-004	47.6806

6.0 Area Detail

6.1 Mitigation Measures Area

- Use only Natural Gas Hearths
- Use Low VOC Cleaning Supplies

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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	0.1868	4.9200e-003	0.4249	2.0000e-005		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	0.6907	0.6907	6.8000e-004	0.0000	0.7076
Unmitigated	0.1988	4.9200e-003	0.4249	2.0000e-005		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	0.6907	0.6907	6.8000e-004	0.0000	0.7076

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1601					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0130	4.9200e-003	0.4249	2.0000e-005		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	0.6907	0.6907	6.8000e-004	0.0000	0.7076
Total	0.1988	4.9200e-003	0.4249	2.0000e-005		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	0.6907	0.6907	6.8000e-004	0.0000	0.7076

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0257					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1482					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0130	4.9200e-003	0.4249	2.0000e-005		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	0.6907	0.6907	6.8000e-004	0.0000	0.7076
Total	0.1868	4.9200e-003	0.4249	2.0000e-005		2.3300e-003	2.3300e-003		2.3300e-003	2.3300e-003	0.0000	0.6907	0.6907	6.8000e-004	0.0000	0.7076

7.0 Water Detail

7.1 Mitigation Measures Water

Stockton and T Addendum (As Proposed - Sacramento County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	5.0424	3.5100e-003	2.1100e-003	5.7581
Unmitigated	5.0424	3.5100e-003	2.1100e-003	5.7581

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	2.67132 / 1.68409	5.0424	3.5100e-003	2.1100e-003	5.7581
Total		5.0424	3.5100e-003	2.1100e-003	5.7581

Stockton and T Addendum (As Proposed - Sacramento County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Condo/Townhouse	2.67132 / 1.68409	5.0424	3.5100e-003	2.1100e-003	5.7581
Total		5.0424	3.5100e-003	2.1100e-003	5.7581

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	3.8284	0.2263	0.0000	9.4847
Unmitigated	3.8284	0.2263	0.0000	9.4847

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	18.86	3.8284	0.2263	0.0000	9.4847
Total		3.8284	0.2263	0.0000	9.4847

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Condo/Townhouse	18.86	3.8284	0.2263	0.0000	9.4847
Total		3.8284	0.2263	0.0000	9.4847

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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Stockton and T Addendum (As Proposed - Sacramento County, Annual)

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Stockton and T Addendum (As Proposed - Sacramento County, Summer

**Stockton and T Addendum (As Proposed
Sacramento County, Summer**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	41.00	Dwelling Unit	2.08	41,000.00	109

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	470.36	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Adjusted for SMUD progress towards RPS

Land Use - *

Construction Phase - *

Grading - *

Vehicle Trips - City provided Traffic Information

Energy Use - Adjusted per 2016 Title 24

Area Mitigation -

Stockton and T Addendum (As Proposed - Sacramento County, Summer)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	220.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	10/17/2019	12/27/2018
tblConstructionPhase	PhaseEndDate	11/29/2018	12/13/2018
tblConstructionPhase	PhaseEndDate	12/13/2018	2/8/2018
tblConstructionPhase	PhaseStartDate	12/14/2018	2/23/2018
tblConstructionPhase	PhaseStartDate	1/26/2018	2/9/2018
tblConstructionPhase	PhaseStartDate	11/30/2018	1/26/2018
tblEnergyUse	T24E	432.17	311.16
tblEnergyUse	T24NG	22,612.97	16,281.34
tblGrading	AcresOfGrading	3.00	2.08
tblGrading	AcresOfGrading	4.50	0.00
tblLandUse	LotAcreage	2.56	2.08
tblProjectCharacteristics	CO2IntensityFactor	590.31	470.36
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	5.67	7.22
tblVehicleTrips	SU_TR	4.84	7.22
tblVehicleTrips	WD_TR	5.81	7.22

2.0 Emissions Summary

Stockton and T Addendum (As Proposed - Sacramento 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	1.1220	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401
Energy	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590
Mobile	0.7690	2.4988	8.2189	0.0212	1.6127	0.0244	1.6370	0.4314	0.0230	0.4543		2,137.1472	2,137.1472	0.1110		2,139.9230
Total	1.9140	2.7346	11.7018	0.0226	1.6127	0.0589	1.6715	0.4314	0.0575	0.4889	0.0000	2,393.9073	2,393.9073	0.1218	4.6000e-003	2,398.3221

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	1.0564	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401
Energy	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590
Mobile	0.7690	2.4988	8.2189	0.0212	1.6127	0.0244	1.6370	0.4314	0.0230	0.4543		2,137.1472	2,137.1472	0.1110		2,139.9230
Total	1.8484	2.7346	11.7018	0.0226	1.6127	0.0589	1.6715	0.4314	0.0575	0.4889	0.0000	2,393.9073	2,393.9073	0.1218	4.6000e-003	2,398.3221

Stockton and T Addendum (As Proposed - Sacramento 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	3.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/12/2018	5	10	
2	Site Preparation	Site Preparation	1/13/2018	1/17/2018	5	3	
3	Grading	Grading	1/18/2018	1/25/2018	5	6	
4	Building Construction	Building Construction	2/9/2018	12/13/2018	5	220	
5	Paving	Paving	1/26/2018	2/8/2018	5	10	
6	Architectural Coating	Architectural Coating	2/23/2018	12/27/2018	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.08

Acres of Paving: 0

Residential Indoor: 83,025; Residential Outdoor: 27,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Stockton and T Addendum (As Proposed - Sacramento 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	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Stockton and T Addendum (As Proposed - Sacramento County, Summer

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	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	30.00	4.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513
Total	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513

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	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513
Total	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777		2,468.4131	2,468.4131	0.7685		2,487.6244
Total	1.8995	23.6201	12.7461	0.0245	0.0000	0.9540	0.9540	0.0000	0.8777	0.8777		2,468.4131	2,468.4131	0.7685		2,487.6244

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0412	0.0234	0.3217	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		67.7887	67.7887	2.3300e-003		67.8470
Total	0.0412	0.0234	0.3217	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		67.7887	67.7887	2.3300e-003		67.8470

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777	0.0000	2,468.413 1	2,468.413 1	0.7685		2,487.624 4
Total	1.8995	23.6201	12.7461	0.0245	0.0000	0.9540	0.9540	0.0000	0.8777	0.8777	0.0000	2,468.413 1	2,468.413 1	0.7685		2,487.624 4

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0412	0.0234	0.3217	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		67.7887	67.7887	2.3300e-003		67.8470
Total	0.0412	0.0234	0.3217	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		67.7887	67.7887	2.3300e-003		67.8470

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3897	0.0000	6.3897	3.3499	0.0000	3.3499			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748		2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.3897	1.1683	7.5580	3.3499	1.0748	4.4248		2,077.4666	2,077.4666	0.6467		2,093.6352

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0515	0.0292	0.4021	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		84.7359	84.7359	2.9100e-003		84.8087
Total	0.0515	0.0292	0.4021	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		84.7359	84.7359	2.9100e-003		84.8087

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					6.3897	0.0000	6.3897	3.3499	0.0000	3.3499			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748	0.0000	2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.3897	1.1683	7.5580	3.3499	1.0748	4.4248	0.0000	2,077.4666	2,077.4666	0.6467		2,093.6352

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0515	0.0292	0.4021	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		84.7359	84.7359	2.9100e-003		84.8087
Total	0.0515	0.0292	0.4021	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		84.7359	84.7359	2.9100e-003		84.8087

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0215	0.5062	0.1652	1.0100e-003	0.0241	4.0500e-003	0.0281	6.9300e-003	3.8700e-003	0.0108		106.8313	106.8313	6.6200e-003		106.9969
Worker	0.1546	0.0877	1.2063	2.5600e-003	0.2282	1.6800e-003	0.2299	0.0605	1.5500e-003	0.0621		254.2076	254.2076	8.7400e-003		254.4262
Total	0.1761	0.5939	1.3715	3.5700e-003	0.2523	5.7300e-003	0.2580	0.0675	5.4200e-003	0.0729		361.0389	361.0389	0.0154		361.4230

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	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0215	0.5062	0.1652	1.0100e-003	0.0241	4.0500e-003	0.0281	6.9300e-003	3.8700e-003	0.0108		106.8313	106.8313	6.6200e-003		106.9969
Worker	0.1546	0.0877	1.2063	2.5600e-003	0.2282	1.6800e-003	0.2299	0.0605	1.5500e-003	0.0621		254.2076	254.2076	8.7400e-003		254.4262
Total	0.1761	0.5939	1.3715	3.5700e-003	0.2523	5.7300e-003	0.2580	0.0675	5.4200e-003	0.0729		361.0389	361.0389	0.0154		361.4230

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.6 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0773	0.0439	0.6032	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		127.1038	127.1038	4.3700e-003		127.2131
Total	0.0773	0.0439	0.6032	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		127.1038	127.1038	4.3700e-003		127.2131

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0773	0.0439	0.6032	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		127.1038	127.1038	4.3700e-003		127.2131
Total	0.0773	0.0439	0.6032	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		127.1038	127.1038	4.3700e-003		127.2131

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.3323					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	2.6309	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0309	0.0175	0.2413	5.1000e-004	0.0456	3.4000e-004	0.0460	0.0121	3.1000e-004	0.0124		50.8415	50.8415	1.7500e-003		50.8852
Total	0.0309	0.0175	0.2413	5.1000e-004	0.0456	3.4000e-004	0.0460	0.0121	3.1000e-004	0.0124		50.8415	50.8415	1.7500e-003		50.8852

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	2.3323					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	2.6309	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Stockton and T Addendum (As Proposed - Sacramento County, Summer

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0309	0.0175	0.2413	5.1000e-004	0.0456	3.4000e-004	0.0460	0.0121	3.1000e-004	0.0124		50.8415	50.8415	1.7500e-003		50.8852
Total	0.0309	0.0175	0.2413	5.1000e-004	0.0456	3.4000e-004	0.0460	0.0121	3.1000e-004	0.0124		50.8415	50.8415	1.7500e-003		50.8852

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Stockton and T Addendum (As Proposed - Sacramento 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	0.7690	2.4988	8.2189	0.0212	1.6127	0.0244	1.6370	0.4314	0.0230	0.4543		2,137.1472	2,137.1472	0.1110		2,139.9230
Unmitigated	0.7690	2.4988	8.2189	0.0212	1.6127	0.0244	1.6370	0.4314	0.0230	0.4543		2,137.1472	2,137.1472	0.1110		2,139.9230

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	296.02	296.02	296.02	759,620	759,620
Total	296.02	296.02	296.02	759,620	759,620

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
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.547085	0.042365	0.202414	0.127049	0.023381	0.005779	0.018348	0.021363	0.002103	0.002394	0.006067	0.000620	0.001032

5.0 Energy Detail

Historical Energy Use: N

Stockton and T Addendum (As Proposed - Sacramento County, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590
NaturalGas Unmitigated	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590

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					
Condo/Townhouse	2130.69	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590
Total		0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590

Stockton and T Addendum (As Proposed - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Condo/Townhouse	2.13069	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590
Total		0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590

6.0 Area Detail

6.1 Mitigation Measures Area

- Use only Natural Gas Hearths
- Use Low VOC Cleaning Supplies

Stockton and T Addendum (As Proposed - Sacramento 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	1.0564	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401
Unmitigated	1.1220	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401

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	0.1406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1041	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186		6.0906	6.0906	5.9800e-003		6.2401
Total	1.1220	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401

Stockton and T Addendum (As Proposed - Sacramento County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1041	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186		6.0906	6.0906	5.9800e-003		6.2401
Total	1.0564	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Stockton and T Addendum (As Proposed - Sacramento County, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Stockton and T Addendum (As Proposed - Sacramento County, Winter

**Stockton and T Addendum (As Proposed
Sacramento County, Winter**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	41.00	Dwelling Unit	2.08	41,000.00	109

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	470.36	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity Adjusted for SMUD progress towards RPS

Land Use - *

Construction Phase - *

Grading - *

Vehicle Trips - City provided Traffic Information

Energy Use - Adjusted per 2016 Title 24

Area Mitigation -

Stockton and T Addendum (As Proposed - Sacramento County, Winter)

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	220.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	10/17/2019	12/27/2018
tblConstructionPhase	PhaseEndDate	11/29/2018	12/13/2018
tblConstructionPhase	PhaseEndDate	12/13/2018	2/8/2018
tblConstructionPhase	PhaseStartDate	12/14/2018	2/23/2018
tblConstructionPhase	PhaseStartDate	1/26/2018	2/9/2018
tblConstructionPhase	PhaseStartDate	11/30/2018	1/26/2018
tblEnergyUse	T24E	432.17	311.16
tblEnergyUse	T24NG	22,612.97	16,281.34
tblGrading	AcresOfGrading	3.00	2.08
tblGrading	AcresOfGrading	4.50	0.00
tblLandUse	LotAcreage	2.56	2.08
tblProjectCharacteristics	CO2IntensityFactor	590.31	470.36
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	5.67	7.22
tblVehicleTrips	SU_TR	4.84	7.22
tblVehicleTrips	WD_TR	5.81	7.22

2.0 Emissions Summary

Stockton and T Addendum (As Proposed - Sacramento 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	1.1220	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401
Energy	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590
Mobile	0.5897	2.7076	7.6323	0.0191	1.6127	0.0247	1.6373	0.4314	0.0232	0.4546		1,928.6273	1,928.6273	0.1094		1,931.3628
Total	1.7347	2.9433	11.1152	0.0205	1.6127	0.0592	1.6718	0.4314	0.0578	0.4891	0.0000	2,185.3873	2,185.3873	0.1202	4.6000e-003	2,189.7619

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	1.0564	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401
Energy	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590
Mobile	0.5897	2.7076	7.6323	0.0191	1.6127	0.0247	1.6373	0.4314	0.0232	0.4546		1,928.6273	1,928.6273	0.1094		1,931.3628
Total	1.6691	2.9433	11.1152	0.0205	1.6127	0.0592	1.6718	0.4314	0.0578	0.4891	0.0000	2,185.3873	2,185.3873	0.1202	4.6000e-003	2,189.7619

Stockton and T Addendum (As Proposed - Sacramento 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	3.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/12/2018	5	10	
2	Site Preparation	Site Preparation	1/13/2018	1/17/2018	5	3	
3	Grading	Grading	1/18/2018	1/25/2018	5	6	
4	Building Construction	Building Construction	2/9/2018	12/13/2018	5	220	
5	Paving	Paving	1/26/2018	2/8/2018	5	10	
6	Architectural Coating	Architectural Coating	2/23/2018	12/27/2018	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.08

Acres of Paving: 0

Residential Indoor: 83,025; Residential Outdoor: 27,675; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Stockton and T Addendum (As Proposed - Sacramento 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	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Stockton and T Addendum (As Proposed - Sacramento County, Winter)

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	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	30.00	4.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	6.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105

Stockton and T Addendum (As Proposed - Sacramento County, Winter

3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0618	0.0470	0.4526	9.7000e-004	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		96.7583	96.7583	3.3700e-003		96.8427
Total	0.0618	0.0470	0.4526	9.7000e-004	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		96.7583	96.7583	3.3700e-003		96.8427

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	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105

Stockton and T Addendum (As Proposed - Sacramento County, Winter

3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0618	0.0470	0.4526	9.7000e-004	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		96.7583	96.7583	3.3700e-003		96.8427
Total	0.0618	0.0470	0.4526	9.7000e-004	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		96.7583	96.7583	3.3700e-003		96.8427

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777		2,468.4131	2,468.4131	0.7685		2,487.6244
Total	1.8995	23.6201	12.7461	0.0245	0.0000	0.9540	0.9540	0.0000	0.8777	0.8777		2,468.4131	2,468.4131	0.7685		2,487.6244

Stockton and T Addendum (As Proposed - Sacramento County, Winter

3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0380	0.0289	0.2785	6.0000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		59.5436	59.5436	2.0800e-003		59.5955
Total	0.0380	0.0289	0.2785	6.0000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		59.5436	59.5436	2.0800e-003		59.5955

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777	0.0000	2,468.413 1	2,468.413 1	0.7685		2,487.624 4
Total	1.8995	23.6201	12.7461	0.0245	0.0000	0.9540	0.9540	0.0000	0.8777	0.8777	0.0000	2,468.413 1	2,468.413 1	0.7685		2,487.624 4

Stockton and T Addendum (As Proposed - Sacramento County, Winter

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0380	0.0289	0.2785	6.0000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		59.5436	59.5436	2.0800e-003		59.5955
Total	0.0380	0.0289	0.2785	6.0000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		59.5436	59.5436	2.0800e-003		59.5955

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3897	0.0000	6.3897	3.3499	0.0000	3.3499			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748		2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.3897	1.1683	7.5580	3.3499	1.0748	4.4248		2,077.4666	2,077.4666	0.6467		2,093.6352

Stockton and T Addendum (As Proposed - Sacramento County, Winter

3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0475	0.0362	0.3482	7.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		74.4295	74.4295	2.6000e-003		74.4944
Total	0.0475	0.0362	0.3482	7.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		74.4295	74.4295	2.6000e-003		74.4944

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					6.3897	0.0000	6.3897	3.3499	0.0000	3.3499			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748	0.0000	2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.3897	1.1683	7.5580	3.3499	1.0748	4.4248	0.0000	2,077.4666	2,077.4666	0.6467		2,093.6352

Stockton and T Addendum (As Proposed - Sacramento County, Winter

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0475	0.0362	0.3482	7.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		74.4295	74.4295	2.6000e-003		74.4944
Total	0.0475	0.0362	0.3482	7.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		74.4295	74.4295	2.6000e-003		74.4944

3.5 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232

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3.5 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0226	0.5198	0.1867	9.9000e-004	0.0241	4.1500e-003	0.0282	6.9300e-003	3.9700e-003	0.0109		104.1840	104.1840	7.1800e-003		104.3635
Worker	0.1426	0.1085	1.0444	2.2500e-003	0.2282	1.6800e-003	0.2299	0.0605	1.5500e-003	0.0621		223.2884	223.2884	7.7900e-003		223.4831
Total	0.1652	0.6283	1.2311	3.2400e-003	0.2523	5.8300e-003	0.2581	0.0675	5.5200e-003	0.0730		327.4724	327.4724	0.0150		327.8466

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	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232

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3.5 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0226	0.5198	0.1867	9.9000e-004	0.0241	4.1500e-003	0.0282	6.9300e-003	3.9700e-003	0.0109		104.1840	104.1840	7.1800e-003		104.3635
Worker	0.1426	0.1085	1.0444	2.2500e-003	0.2282	1.6800e-003	0.2299	0.0605	1.5500e-003	0.0621		223.2884	223.2884	7.7900e-003		223.4831
Total	0.1652	0.6283	1.2311	3.2400e-003	0.2523	5.8300e-003	0.2581	0.0675	5.5200e-003	0.0730		327.4724	327.4724	0.0150		327.8466

3.6 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896

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3.6 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0713	0.0543	0.5222	1.1200e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		111.6442	111.6442	3.8900e-003		111.7415
Total	0.0713	0.0543	0.5222	1.1200e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		111.6442	111.6442	3.8900e-003		111.7415

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896

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3.6 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0713	0.0543	0.5222	1.1200e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		111.6442	111.6442	3.8900e-003		111.7415
Total	0.0713	0.0543	0.5222	1.1200e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		111.6442	111.6442	3.8900e-003		111.7415

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.3323					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	2.6309	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Stockton and T Addendum (As Proposed - Sacramento County, Winter

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0285	0.0217	0.2089	4.5000e-004	0.0456	3.4000e-004	0.0460	0.0121	3.1000e-004	0.0124		44.6577	44.6577	1.5600e-003		44.6966
Total	0.0285	0.0217	0.2089	4.5000e-004	0.0456	3.4000e-004	0.0460	0.0121	3.1000e-004	0.0124		44.6577	44.6577	1.5600e-003		44.6966

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	2.3323					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	2.6309	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Stockton and T Addendum (As Proposed - Sacramento County, Winter

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0285	0.0217	0.2089	4.5000e-004	0.0456	3.4000e-004	0.0460	0.0121	3.1000e-004	0.0124		44.6577	44.6577	1.5600e-003		44.6966
Total	0.0285	0.0217	0.2089	4.5000e-004	0.0456	3.4000e-004	0.0460	0.0121	3.1000e-004	0.0124		44.6577	44.6577	1.5600e-003		44.6966

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Stockton and T Addendum (As Proposed - Sacramento 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	0.5897	2.7076	7.6323	0.0191	1.6127	0.0247	1.6373	0.4314	0.0232	0.4546		1,928.6273	1,928.6273	0.1094		1,931.3628
Unmitigated	0.5897	2.7076	7.6323	0.0191	1.6127	0.0247	1.6373	0.4314	0.0232	0.4546		1,928.6273	1,928.6273	0.1094		1,931.3628

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Condo/Townhouse	296.02	296.02	296.02	759,620	759,620
Total	296.02	296.02	296.02	759,620	759,620

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
Condo/Townhouse	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Condo/Townhouse	0.547085	0.042365	0.202414	0.127049	0.023381	0.005779	0.018348	0.021363	0.002103	0.002394	0.006067	0.000620	0.001032

5.0 Energy Detail

Historical Energy Use: N

Stockton and T Addendum (As Proposed - Sacramento County, Winter)

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590
NaturalGas Unmitigated	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590

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					
Condo/Townhouse	2130.69	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590
Total		0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590

Stockton and T Addendum (As Proposed - Sacramento County, Winter)

5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas 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					
Condo/Townhouse	2.13069	0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590
Total		0.0230	0.1964	0.0836	1.2500e-003		0.0159	0.0159		0.0159	0.0159		250.6694	250.6694	4.8000e-003	4.6000e-003	252.1590

6.0 Area Detail

6.1 Mitigation Measures Area

- Use only Natural Gas Hearths
- Use Low VOC Cleaning Supplies

Stockton and T Addendum (As Proposed - Sacramento 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	1.0564	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401
Unmitigated	1.1220	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401

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	0.1406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8774					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1041	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186		6.0906	6.0906	5.9800e-003		6.2401
Total	1.1220	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1406					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8118					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.1041	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186		6.0906	6.0906	5.9800e-003		6.2401
Total	1.0564	0.0394	3.3993	1.8000e-004		0.0186	0.0186		0.0186	0.0186	0.0000	6.0906	6.0906	5.9800e-003	0.0000	6.2401

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Stockton and T Addendum (As Proposed - Sacramento County, Winter

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

**Stockton and T Addendum (As Proposed
Sacramento County, Mitigation Report**

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	Unmitigated tons/yr						Unmitigated mt/yr					
Air Compressors	3.28500E-002	2.20630E-001	2.03960E-001	3.30000E-004	1.65600E-002	1.65600E-002	0.00000E+000	2.80858E+001	2.80858E+001	2.67000E-003	0.00000E+000	2.81526E+001
Cement and Mortar Mixers	2.90000E-004	1.84000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29730E-001
Concrete/Industrial Saws	2.60000E-003	1.95700E-002	1.86200E-002	3.00000E-005	1.33000E-003	1.33000E-003	0.00000E+000	2.68828E+000	2.68828E+000	2.10000E-004	0.00000E+000	2.69349E+000
Cranes	6.27800E-002	7.50290E-001	2.77400E-001	6.30000E-004	3.24700E-002	2.98800E-002	0.00000E+000	5.79381E+001	5.79381E+001	1.80400E-002	0.00000E+000	5.83890E+001
Forklifts	3.42900E-002	3.03090E-001	2.33160E-001	2.90000E-004	2.41900E-002	2.22500E-002	0.00000E+000	2.68564E+001	2.68564E+001	8.36000E-003	0.00000E+000	2.70654E+001
Generator Sets	5.55900E-002	4.52470E-001	4.12190E-001	7.20000E-004	2.88200E-002	2.88200E-002	0.00000E+000	6.21728E+001	6.21728E+001	4.49000E-003	0.00000E+000	6.22850E+001
Graders	2.34000E-003	3.20700E-002	8.62000E-003	3.00000E-005	1.04000E-003	9.60000E-004	0.00000E+000	2.73490E+000	2.73490E+000	8.50000E-004	0.00000E+000	2.75618E+000
Pavers	1.63000E-003	1.80400E-002	1.46300E-002	2.00000E-005	8.80000E-004	8.10000E-004	0.00000E+000	2.14609E+000	2.14609E+000	6.70000E-004	0.00000E+000	2.16280E+000
Paving Equipment	1.19000E-003	1.32900E-002	1.26800E-002	2.00000E-005	6.50000E-004	6.00000E-004	0.00000E+000	1.85975E+000	1.85975E+000	5.80000E-004	0.00000E+000	1.87423E+000
Rollers	2.58000E-003	2.49300E-002	1.93500E-002	3.00000E-005	1.72000E-003	1.58000E-003	0.00000E+000	2.39412E+000	2.39412E+000	7.50000E-004	0.00000E+000	2.41275E+000
Rubber Tired Dozers	9.33000E-003	1.00480E-001	3.50100E-002	7.00000E-005	4.88000E-003	4.49000E-003	0.00000E+000	6.24269E+000	6.24269E+000	1.94000E-003	0.00000E+000	6.29127E+000
Scrapers	1.72000E-003	2.12900E-002	1.31800E-002	2.00000E-005	8.40000E-004	7.70000E-004	0.00000E+000	2.07491E+000	2.07491E+000	6.50000E-004	0.00000E+000	2.09106E+000
Tractors/Loaders/Backhoes	2.90200E-002	2.86800E-001	2.54850E-001	3.40000E-004	2.03200E-002	1.86900E-002	0.00000E+000	3.09460E+001	3.09460E+001	9.63000E-003	0.00000E+000	3.11869E+001
Welders	1.45780E-001	5.55040E-001	6.13480E-001	8.40000E-004	3.74700E-002	3.74700E-002	0.00000E+000	6.21128E+001	6.21128E+001	1.19100E-002	0.00000E+000	6.24106E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	3.28500E-002	2.20630E-001	2.03960E-001	3.30000E-004	1.65600E-002	1.65600E-002	0.00000E+000	2.80858E+001	2.80858E+001	2.67000E-003	0.00000E+000	2.81525E+001
Cement and Mortar Mixers	2.90000E-004	1.84000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29730E-001
Concrete/Industrial Saws	2.60000E-003	1.95700E-002	1.86200E-002	3.00000E-005	1.33000E-003	1.33000E-003	0.00000E+000	2.68828E+000	2.68828E+000	2.10000E-004	0.00000E+000	2.69348E+000
Cranes	6.27800E-002	7.50290E-001	2.77400E-001	6.30000E-004	3.24700E-002	2.98800E-002	0.00000E+000	5.79380E+001	5.79380E+001	1.80400E-002	0.00000E+000	5.83889E+001
Forklifts	3.42900E-002	3.03090E-001	2.33160E-001	2.90000E-004	2.41900E-002	2.22500E-002	0.00000E+000	2.68564E+001	2.68564E+001	8.36000E-003	0.00000E+000	2.70654E+001
Generator Sets	5.55900E-002	4.52470E-001	4.12190E-001	7.20000E-004	2.88200E-002	2.88200E-002	0.00000E+000	6.21728E+001	6.21728E+001	4.49000E-003	0.00000E+000	6.22849E+001
Graders	2.34000E-003	3.20700E-002	8.62000E-003	3.00000E-005	1.04000E-003	9.60000E-004	0.00000E+000	2.73489E+000	2.73489E+000	8.50000E-004	0.00000E+000	2.75618E+000
Pavers	1.63000E-003	1.80400E-002	1.46300E-002	2.00000E-005	8.80000E-004	8.10000E-004	0.00000E+000	2.14609E+000	2.14609E+000	6.70000E-004	0.00000E+000	2.16279E+000
Paving Equipment	1.19000E-003	1.32900E-002	1.26800E-002	2.00000E-005	6.50000E-004	6.00000E-004	0.00000E+000	1.85975E+000	1.85975E+000	5.80000E-004	0.00000E+000	1.87422E+000
Rollers	2.58000E-003	2.49300E-002	1.93500E-002	3.00000E-005	1.72000E-003	1.58000E-003	0.00000E+000	2.39412E+000	2.39412E+000	7.50000E-004	0.00000E+000	2.41275E+000
Rubber Tired Dozers	9.33000E-003	1.00480E-001	3.50100E-002	7.00000E-005	4.88000E-003	4.49000E-003	0.00000E+000	6.24268E+000	6.24268E+000	1.94000E-003	0.00000E+000	6.29127E+000
Scrapers	1.72000E-003	2.12900E-002	1.31800E-002	2.00000E-005	8.40000E-004	7.70000E-004	0.00000E+000	2.07491E+000	2.07491E+000	6.50000E-004	0.00000E+000	2.09106E+000
Tractors/Loaders/Backhoes	2.90200E-002	2.86800E-001	2.54850E-001	3.40000E-004	2.03200E-002	1.86900E-002	0.00000E+000	3.09460E+001	3.09460E+001	9.63000E-003	0.00000E+000	3.11868E+001
Welders	1.45780E-001	5.55040E-001	6.13470E-001	8.40000E-004	3.74700E-002	3.74700E-002	0.00000E+000	6.21127E+001	6.21127E+001	1.19100E-002	0.00000E+000	6.24106E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06815E-006	1.06815E-006	0.00000E+000	0.00000E+000	1.06562E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.71266E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20819E-006	1.20819E-006	0.00000E+000	0.00000E+000	1.19886E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11705E-006	1.11705E-006	0.00000E+000	0.00000E+000	1.47790E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12589E-006	1.12589E-006	0.00000E+000	0.00000E+000	1.28442E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.65644E-006	3.65644E-006	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.62364E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	5.33552E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.60187E-006	1.60187E-006	0.00000E+000	0.00000E+000	0.00000E+000
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.29257E-006	1.29257E-006	0.00000E+000	0.00000E+000	1.28259E-006
Welders	0.00000E+000	0.00000E+000	1.63004E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.28798E-006	1.28798E-006	0.00000E+000	0.00000E+000	1.28183E-006

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

No	Soil Stabilizer for unpaved Roads	PM10 Reduction		PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction		PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction		PM2.5 Reduction	Frequency (per day)

No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)			
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.03	0.01	0.03	0.01	0.00	0.00
Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.02	0.01	0.02	0.01	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	7.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
Yes	Only Natural Gas Hearth	
No	No Hearth	
Yes	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
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Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
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Stockton and T Addendum (As Proposed - Sacramento County, Summary Report

**Stockton and T Addendum (As Proposed
Sacramento, Summary Report**

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Condo/Townhouse	41.00	Dwelling Unit	2.08	41,000.00	109

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	470.36	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics - CO2 Intensity Adjusted for SMUD progress towards RPS

Land Use - *

Construction Phase - *

Grading - *

Vehicle Trips - City provided Traffic Information

Energy Use - Adjusted per 2016 Title 24

Area Mitigation -

Stockton and T Addendum (As Proposed - Sacramento County, Summary Report)

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

		Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
Year	Phase	lb/day											
2018	Demolition	2.5508 S	24.4111 W	15.6335 S	0.0252 S	1.5361 S	1.3698 S	2.5508 S	24.4111 W	15.6335 S	0.0252 S	1.5361 S	1.3698 S
2018	Site Preparation	1.9407 S	23.6490 W	13.0677 S	0.0252 S	1.0153 S	0.8942 S	1.9407 S	23.6490 W	13.0677 S	0.0252 S	1.0153 S	0.8942 S
2018	Grading	2.2030 S	24.3256 W	10.7825 S	0.0215 S	7.6347 S	4.4454 S	2.2030 S	24.3256 W	10.7825 S	0.0215 S	7.6347 S	4.4454 S
2018	Building Construction	3.0888 S	21.3359 W	17.0898 S	0.0286 S	1.5156 W	1.2781 W	3.0888 S	21.3359 W	17.0898 S	0.0286 S	1.5156 W	1.2781 W
2018	Paving	1.4819 S	14.3060 W	12.5819 S	0.0191 S	0.9654 S	0.8146 S	1.4819 S	14.3060 W	12.5819 S	0.0191 S	0.9654 S	0.8146 S
2018	Architectural Coating	2.6618 S	2.0275 W	2.0955 S	3.4800e-003 S	0.1965 S	0.1630 S	2.6618 S	2.0275 W	2.0955 S	3.4800e-003 S	0.1965 S	0.1630 S
	Peak Daily Total	3.0888 S	24.4111 W	17.0898 S	0.0286 S	7.6347 S	4.4454 S	3.0888 S	24.4111 W	17.0898 S	0.0286 S	7.6347 S	4.4454 S
	Air District Threshold												
	Exceed Significance?												

Peak Daily Operational Emissions

Peak Daily Operational Emissions

Stockton & T (As Approved) - Sacramento County, Annual

Stockton & T (As Approved)
Sacramento County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	24.00	Dwelling Unit	2.08	43,200.00	64

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	470.36	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity adjusted per SMUD progress towards RPS

Land Use - *

Construction Phase - *

Grading - *

Vehicle Trips - Fehr and Peers provided trip rate & trip reductions

Energy Use - Adjusted for compliance with 2016 Title 24

Area Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	220.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	10/17/2019	12/27/2018
tblConstructionPhase	PhaseEndDate	11/29/2018	12/13/2018
tblConstructionPhase	PhaseEndDate	12/13/2018	2/8/2018
tblConstructionPhase	PhaseStartDate	12/14/2018	2/23/2018
tblConstructionPhase	PhaseStartDate	1/26/2018	2/9/2018
tblConstructionPhase	PhaseStartDate	11/30/2018	1/26/2018
tblEnergyUse	T24E	768.93	553.63
tblEnergyUse	T24NG	29,300.87	21,096.63
tblGrading	AcresOfGrading	3.00	2.08
tblGrading	AcresOfGrading	4.50	0.00
tblLandUse	LotAcreage	7.79	2.08
tblProjectCharacteristics	CO2IntensityFactor	590.31	470.36
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	9.91	8.15
tblVehicleTrips	SU_TR	8.62	8.15
tblVehicleTrips	WD_TR	9.52	8.15

2.0 Emissions Summary

Stockton & T (As Approved) - Sacramento County, Annual

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.6603	2.8472	2.1806	3.5800e-003	0.0313	0.1717	0.2030	0.0133	0.1647	0.1780	0.0000	306.0683	306.0683	0.0616	0.0000	307.6084
Maximum	0.6603	2.8472	2.1806	3.5800e-003	0.0313	0.1717	0.2030	0.0133	0.1647	0.1780	0.0000	306.0683	306.0683	0.0616	0.0000	307.6084

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2018	0.6603	2.8472	2.1806	3.5800e-003	0.0313	0.1717	0.2030	0.0133	0.1647	0.1780	0.0000	306.0679	306.0679	0.0616	0.0000	307.6080
Maximum	0.6603	2.8472	2.1806	3.5800e-003	0.0313	0.1717	0.2030	0.0133	0.1647	0.1780	0.0000	306.0679	306.0679	0.0616	0.0000	307.6080

	ROG	NOx	CO	SO2	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	0.02	0.00	0.00

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2018	3-31-2018	0.8181	0.8181
2	4-1-2018	6-30-2018	0.9382	0.9382
3	7-1-2018	9-30-2018	0.9485	0.9485
		Highest	0.9485	0.9485

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	0.2034	2.8800e-003	0.2487	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.0000e-004	0.0000	0.4142
Energy	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	75.7399	75.7399	3.3800e-003	1.1400e-003	76.1628
Mobile	0.0741	0.3152	0.8820	2.3500e-003	0.1874	2.9400e-003	0.1903	0.0503	2.7700e-003	0.0530	0.0000	215.3013	215.3013	0.0117	0.0000	215.5944
Waste						0.0000	0.0000		0.0000	0.0000	4.6769	0.0000	4.6769	0.2764	0.0000	11.5869
Water						0.0000	0.0000		0.0000	0.0000	0.5532	2.3984	2.9517	2.0500e-003	1.2300e-003	3.3706
Total	0.2805	0.3443	1.1419	2.5300e-003	0.1874	6.4300e-003	0.1938	0.0503	6.2600e-003	0.0565	5.2302	293.8439	299.0740	0.2940	2.3700e-003	307.1289

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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	0.1908	2.8800e-003	0.2487	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.0000e-004	0.0000	0.4142
Energy	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	75.7399	75.7399	3.3800e-003	1.1400e-003	76.1628
Mobile	0.0741	0.3152	0.8820	2.3500e-003	0.1874	2.9400e-003	0.1903	0.0503	2.7700e-003	0.0530	0.0000	215.3013	215.3013	0.0117	0.0000	215.5944
Waste						0.0000	0.0000		0.0000	0.0000	4.6769	0.0000	4.6769	0.2764	0.0000	11.5869
Water						0.0000	0.0000		0.0000	0.0000	0.5532	2.3984	2.9517	2.0500e-003	1.2300e-003	3.3706
Total	0.2679	0.3443	1.1419	2.5300e-003	0.1874	6.4300e-003	0.1938	0.0503	6.2600e-003	0.0565	5.2302	293.8439	299.0740	0.2940	2.3700e-003	307.1289

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction	4.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/12/2018	5	10	
2	Site Preparation	Site Preparation	1/13/2018	1/17/2018	5	3	
3	Grading	Grading	1/18/2018	1/25/2018	5	6	
4	Paving	Paving	1/26/2018	2/8/2018	5	10	
5	Building Construction	Building Construction	2/9/2018	12/13/2018	5	220	
6	Architectural Coating	Architectural Coating	2/23/2018	12/27/2018	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.08

Acres of Paving: 0

Residential Indoor: 87,480; Residential Outdoor: 29,160; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

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Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

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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
Architectural Coating	1	2.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	9.00	3.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0124	0.1218	0.0756	1.2000e-004		7.1800e-003	7.1800e-003		6.7100e-003	6.7100e-003	0.0000	10.8462	10.8462	2.7500e-003	0.0000	10.9148
Total	0.0124	0.1218	0.0756	1.2000e-004		7.1800e-003	7.1800e-003		6.7100e-003	6.7100e-003	0.0000	10.8462	10.8462	2.7500e-003	0.0000	10.9148

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3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.1000e-004	2.2300e-003	1.0000e-005	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4517	0.4517	2.0000e-005	0.0000	0.4521
Total	2.9000e-004	2.1000e-004	2.2300e-003	1.0000e-005	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4517	0.4517	2.0000e-005	0.0000	0.4521

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	0.0124	0.1218	0.0756	1.2000e-004		7.1800e-003	7.1800e-003		6.7100e-003	6.7100e-003	0.0000	10.8461	10.8461	2.7500e-003	0.0000	10.9148
Total	0.0124	0.1218	0.0756	1.2000e-004		7.1800e-003	7.1800e-003		6.7100e-003	6.7100e-003	0.0000	10.8461	10.8461	2.7500e-003	0.0000	10.9148

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3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9000e-004	2.1000e-004	2.2300e-003	1.0000e-005	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4517	0.4517	2.0000e-005	0.0000	0.4521
Total	2.9000e-004	2.1000e-004	2.2300e-003	1.0000e-005	4.8000e-004	0.0000	4.8000e-004	1.3000e-004	0.0000	1.3000e-004	0.0000	0.4517	0.4517	2.0000e-005	0.0000	0.4521

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0354	0.0191	4.0000e-005		1.4300e-003	1.4300e-003		1.3200e-003	1.3200e-003	0.0000	3.3590	3.3590	1.0500e-003	0.0000	3.3851
Total	2.8500e-003	0.0354	0.0191	4.0000e-005	0.0000	1.4300e-003	1.4300e-003	0.0000	1.3200e-003	1.3200e-003	0.0000	3.3590	3.3590	1.0500e-003	0.0000	3.3851

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3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0834	0.0834	0.0000	0.0000	0.0835
Total	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0834	0.0834	0.0000	0.0000	0.0835

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.8500e-003	0.0354	0.0191	4.0000e-005		1.4300e-003	1.4300e-003		1.3200e-003	1.3200e-003	0.0000	3.3590	3.3590	1.0500e-003	0.0000	3.3851
Total	2.8500e-003	0.0354	0.0191	4.0000e-005	0.0000	1.4300e-003	1.4300e-003	0.0000	1.3200e-003	1.3200e-003	0.0000	3.3590	3.3590	1.0500e-003	0.0000	3.3851

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3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0834	0.0834	0.0000	0.0000	0.0835
Total	5.0000e-005	4.0000e-005	4.1000e-004	0.0000	9.0000e-005	0.0000	9.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0834	0.0834	0.0000	0.0000	0.0835

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0192	0.0000	0.0192	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4500e-003	0.0729	0.0311	6.0000e-005		3.5000e-003	3.5000e-003		3.2200e-003	3.2200e-003	0.0000	5.6539	5.6539	1.7600e-003	0.0000	5.6979
Total	6.4500e-003	0.0729	0.0311	6.0000e-005	0.0192	3.5000e-003	0.0227	0.0101	3.2200e-003	0.0133	0.0000	5.6539	5.6539	1.7600e-003	0.0000	5.6979

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3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.0300e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2085	0.2085	1.0000e-005	0.0000	0.2087
Total	1.3000e-004	1.0000e-004	1.0300e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2085	0.2085	1.0000e-005	0.0000	0.2087

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0192	0.0000	0.0192	0.0101	0.0000	0.0101	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.4500e-003	0.0729	0.0311	6.0000e-005		3.5000e-003	3.5000e-003		3.2200e-003	3.2200e-003	0.0000	5.6539	5.6539	1.7600e-003	0.0000	5.6979
Total	6.4500e-003	0.0729	0.0311	6.0000e-005	0.0192	3.5000e-003	0.0227	0.0101	3.2200e-003	0.0133	0.0000	5.6539	5.6539	1.7600e-003	0.0000	5.6979

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3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.3000e-004	1.0000e-004	1.0300e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2085	0.2085	1.0000e-005	0.0000	0.2087
Total	1.3000e-004	1.0000e-004	1.0300e-003	0.0000	2.2000e-004	0.0000	2.2000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2085	0.2085	1.0000e-005	0.0000	0.2087

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093

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3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217
Total	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	7.0200e-003	0.0713	0.0599	9.0000e-005		4.2500e-003	4.2500e-003		3.9200e-003	3.9200e-003	0.0000	8.0478	8.0478	2.4600e-003	0.0000	8.1093

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3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217
Total	3.3000e-004	2.4000e-004	2.5700e-003	1.0000e-005	5.5000e-004	0.0000	5.6000e-004	1.5000e-004	0.0000	1.5000e-004	0.0000	0.5212	0.5212	2.0000e-005	0.0000	0.5217

3.6 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.3204	2.2778	1.7290	2.7500e-003		0.1383	0.1383		0.1326	0.1326	0.0000	232.4891	232.4891	0.0501	0.0000	233.7412
Total	0.3204	2.2778	1.7290	2.7500e-003		0.1383	0.1383		0.1326	0.1326	0.0000	232.4891	232.4891	0.0501	0.0000	233.7412

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3.6 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7900e-003	0.0428	0.0142	8.0000e-005	1.9300e-003	3.4000e-004	2.2700e-003	5.6000e-004	3.2000e-004	8.8000e-004	0.0000	7.9123	7.9123	5.1000e-004	0.0000	7.9251
Worker	4.4100e-003	3.2000e-003	0.0339	8.0000e-005	7.2700e-003	6.0000e-005	7.3300e-003	1.9300e-003	5.0000e-005	1.9800e-003	0.0000	6.8803	6.8803	2.3000e-004	0.0000	6.8862
Total	6.2000e-003	0.0460	0.0481	1.6000e-004	9.2000e-003	4.0000e-004	9.6000e-003	2.4900e-003	3.7000e-004	2.8600e-003	0.0000	14.7926	14.7926	7.4000e-004	0.0000	14.8113

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	0.3204	2.2778	1.7290	2.7500e-003		0.1383	0.1383		0.1326	0.1326	0.0000	232.4888	232.4888	0.0501	0.0000	233.7409
Total	0.3204	2.2778	1.7290	2.7500e-003		0.1383	0.1383		0.1326	0.1326	0.0000	232.4888	232.4888	0.0501	0.0000	233.7409

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3.6 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.7900e-003	0.0428	0.0142	8.0000e-005	1.9300e-003	3.4000e-004	2.2700e-003	5.6000e-004	3.2000e-004	8.8000e-004	0.0000	7.9123	7.9123	5.1000e-004	0.0000	7.9251
Worker	4.4100e-003	3.2000e-003	0.0339	8.0000e-005	7.2700e-003	6.0000e-005	7.3300e-003	1.9300e-003	5.0000e-005	1.9800e-003	0.0000	6.8803	6.8803	2.3000e-004	0.0000	6.8862
Total	6.2000e-003	0.0460	0.0481	1.6000e-004	9.2000e-003	4.0000e-004	9.6000e-003	2.4900e-003	3.7000e-004	2.8600e-003	0.0000	14.7926	14.7926	7.4000e-004	0.0000	14.8113

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.2703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0329	0.2206	0.2040	3.3000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	28.0858	28.0858	2.6700e-003	0.0000	28.1526
Total	0.3032	0.2206	0.2040	3.3000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	28.0858	28.0858	2.6700e-003	0.0000	28.1526

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3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	7.1000e-004	7.5400e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.5290	1.5290	5.0000e-005	0.0000	1.5303
Total	9.8000e-004	7.1000e-004	7.5400e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.5290	1.5290	5.0000e-005	0.0000	1.5303

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	0.2703					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0329	0.2206	0.2040	3.3000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	28.0858	28.0858	2.6700e-003	0.0000	28.1525
Total	0.3032	0.2206	0.2040	3.3000e-004		0.0166	0.0166		0.0166	0.0166	0.0000	28.0858	28.0858	2.6700e-003	0.0000	28.1525

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3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.8000e-004	7.1000e-004	7.5400e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.5290	1.5290	5.0000e-005	0.0000	1.5303
Total	9.8000e-004	7.1000e-004	7.5400e-003	2.0000e-005	1.6200e-003	1.0000e-005	1.6300e-003	4.3000e-004	1.0000e-005	4.4000e-004	0.0000	1.5290	1.5290	5.0000e-005	0.0000	1.5303

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	0.0741	0.3152	0.8820	2.3500e-003	0.1874	2.9400e-003	0.1903	0.0503	2.7700e-003	0.0530	0.0000	215.3013	215.3013	0.0117	0.0000	215.5944
Unmitigated	0.0741	0.3152	0.8820	2.3500e-003	0.1874	2.9400e-003	0.1903	0.0503	2.7700e-003	0.0530	0.0000	215.3013	215.3013	0.0117	0.0000	215.5944

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	195.60	195.60	195.60	501,931	501,931
Total	195.60	195.60	195.60	501,931	501,931

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547085	0.042365	0.202414	0.127049	0.023381	0.005779	0.018348	0.021363	0.002103	0.002394	0.006067	0.000620	0.001032

5.0 Energy Detail

Historical Energy Use: N

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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	45.2794	45.2794	2.7900e-003	5.8000e-004	45.5214
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	45.2794	45.2794	2.7900e-003	5.8000e-004	45.5214
NaturalGas Mitigated	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	30.4604	30.4604	5.8000e-004	5.6000e-004	30.6415
NaturalGas Unmitigated	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	30.4604	30.4604	5.8000e-004	5.6000e-004	30.6415

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	570807	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	30.4604	30.4604	5.8000e-004	5.6000e-004	30.6415
Total		3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	30.4604	30.4604	5.8000e-004	5.6000e-004	30.6415

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5.2 Energy by Land Use - Natural Gas

Mitigated

	Natural Gas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Single Family Housing	570807	3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	30.4604	30.4604	5.8000e-004	5.6000e-004	30.6415
Total		3.0800e-003	0.0263	0.0112	1.7000e-004		2.1300e-003	2.1300e-003		2.1300e-003	2.1300e-003	0.0000	30.4604	30.4604	5.8000e-004	5.6000e-004	30.6415

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	212229	45.2794	2.7900e-003	5.8000e-004	45.5214
Total		45.2794	2.7900e-003	5.8000e-004	45.5214

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5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Single Family Housing	212229	45.2794	2.7900e-003	5.8000e-004	45.5214
Total		45.2794	2.7900e-003	5.8000e-004	45.5214

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Cleaning Supplies

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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	0.1908	2.8800e-003	0.2487	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.0000e-004	0.0000	0.4142
Unmitigated	0.2034	2.8800e-003	0.2487	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.0000e-004	0.0000	0.4142

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0270					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1687					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.6100e-003	2.8800e-003	0.2487	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.0000e-004	0.0000	0.4142
Total	0.2034	2.8800e-003	0.2487	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.0000e-004	0.0000	0.4142

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6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0270					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.1561					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	7.6100e-003	2.8800e-003	0.2487	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.0000e-004	0.0000	0.4142
Total	0.1907	2.8800e-003	0.2487	1.0000e-005		1.3600e-003	1.3600e-003		1.3600e-003	1.3600e-003	0.0000	0.4043	0.4043	4.0000e-004	0.0000	0.4142

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	2.9517	2.0500e-003	1.2300e-003	3.3706
Unmitigated	2.9517	2.0500e-003	1.2300e-003	3.3706

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.5637 / 0.985809	2.9517	2.0500e-003	1.2300e-003	3.3706
Total		2.9517	2.0500e-003	1.2300e-003	3.3706

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Single Family Housing	1.5637 / 0.985809	2.9517	2.0500e-003	1.2300e-003	3.3706
Total		2.9517	2.0500e-003	1.2300e-003	3.3706

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	4.6769	0.2764	0.0000	11.5869
Unmitigated	4.6769	0.2764	0.0000	11.5869

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.04	4.6769	0.2764	0.0000	11.5869
Total		4.6769	0.2764	0.0000	11.5869

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Single Family Housing	23.04	4.6769	0.2764	0.0000	11.5869
Total		4.6769	0.2764	0.0000	11.5869

9.0 Operational Offroad

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

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Stockton & T (As Approved) - Sacramento County, Summer

Stockton & T (As Approved)
Sacramento County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	24.00	Dwelling Unit	2.08	43,200.00	64

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	470.36	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity adjusted per SMUD progress towards RPS

Land Use - *

Construction Phase - *

Grading - *

Vehicle Trips - Fehr and Peers provided trip rate & trip reductions

Energy Use - Adjusted for compliance with 2016 Title 24

Area Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	220.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	10/17/2019	12/27/2018
tblConstructionPhase	PhaseEndDate	11/29/2018	12/13/2018
tblConstructionPhase	PhaseEndDate	12/13/2018	2/8/2018
tblConstructionPhase	PhaseStartDate	12/14/2018	2/23/2018
tblConstructionPhase	PhaseStartDate	1/26/2018	2/9/2018
tblConstructionPhase	PhaseStartDate	11/30/2018	1/26/2018
tblEnergyUse	T24E	768.93	553.63
tblEnergyUse	T24NG	29,300.87	21,096.63
tblGrading	AcresOfGrading	3.00	2.08
tblGrading	AcresOfGrading	4.50	0.00
tblLandUse	LotAcreage	7.79	2.08
tblProjectCharacteristics	CO2IntensityFactor	590.31	470.36
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	9.91	8.15
tblVehicleTrips	SU_TR	8.62	8.15
tblVehicleTrips	WD_TR	9.52	8.15

2.0 Emissions Summary

Stockton & T (As Approved) - Sacramento 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	1.1335	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527
Energy	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763
Mobile	0.5081	1.6512	5.4308	0.0140	1.0656	0.0161	1.0817	0.2850	0.0152	0.3002		1,412.1546	1,412.1546	0.0734		1,413.9887
Total	1.6585	1.8183	7.4820	0.0150	1.0656	0.0387	1.1042	0.2850	0.0377	0.3228	0.0000	1,599.7028	1,599.7028	0.0804	3.3700e-003	1,602.7177

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	1.0644	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527
Energy	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763
Mobile	0.5081	1.6512	5.4308	0.0140	1.0656	0.0161	1.0817	0.2850	0.0152	0.3002		1,412.1546	1,412.1546	0.0734		1,413.9887
Total	1.5894	1.8183	7.4820	0.0150	1.0656	0.0387	1.1042	0.2850	0.0377	0.3228	0.0000	1,599.7028	1,599.7028	0.0804	3.3700e-003	1,602.7177

Stockton & T (As Approved) - Sacramento 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	4.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/12/2018	5	10	
2	Site Preparation	Site Preparation	1/13/2018	1/17/2018	5	3	
3	Grading	Grading	1/18/2018	1/25/2018	5	6	
4	Paving	Paving	1/26/2018	2/8/2018	5	10	
5	Building Construction	Building Construction	2/9/2018	12/13/2018	5	220	
6	Architectural Coating	Architectural Coating	2/23/2018	12/27/2018	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.08

Acres of Paving: 0

Residential Indoor: 87,480; Residential Outdoor: 29,160; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Stockton & T (As Approved) - Sacramento County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Stockton & T (As Approved) - Sacramento County, Summer

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
Architectural Coating	1	2.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	9.00	3.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105

Stockton & T (As Approved) - Sacramento County, Summer

3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513
Total	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513

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	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105

Stockton & T (As Approved) - Sacramento County, Summer

3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513
Total	0.0670	0.0380	0.5227	1.1100e-003	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		110.1566	110.1566	3.7900e-003		110.2513

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777		2,468.4131	2,468.4131	0.7685		2,487.6244
Total	1.8995	23.6201	12.7461	0.0245	0.0000	0.9540	0.9540	0.0000	0.8777	0.8777		2,468.4131	2,468.4131	0.7685		2,487.6244

Stockton & T (As Approved) - Sacramento County, Summer

3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0412	0.0234	0.3217	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		67.7887	67.7887	2.3300e-003		67.8470
Total	0.0412	0.0234	0.3217	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		67.7887	67.7887	2.3300e-003		67.8470

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777	0.0000	2,468.413 1	2,468.413 1	0.7685		2,487.624 4
Total	1.8995	23.6201	12.7461	0.0245	0.0000	0.9540	0.9540	0.0000	0.8777	0.8777	0.0000	2,468.413 1	2,468.413 1	0.7685		2,487.624 4

Stockton & T (As Approved) - Sacramento County, Summer

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0412	0.0234	0.3217	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		67.7887	67.7887	2.3300e-003		67.8470
Total	0.0412	0.0234	0.3217	6.8000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		67.7887	67.7887	2.3300e-003		67.8470

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3897	0.0000	6.3897	3.3499	0.0000	3.3499			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748		2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.3897	1.1683	7.5580	3.3499	1.0748	4.4248		2,077.4666	2,077.4666	0.6467		2,093.6352

Stockton & T (As Approved) - Sacramento County, Summer

3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0515	0.0292	0.4021	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		84.7359	84.7359	2.9100e-003		84.8087
Total	0.0515	0.0292	0.4021	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		84.7359	84.7359	2.9100e-003		84.8087

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					6.3897	0.0000	6.3897	3.3499	0.0000	3.3499			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748	0.0000	2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.3897	1.1683	7.5580	3.3499	1.0748	4.4248	0.0000	2,077.4666	2,077.4666	0.6467		2,093.6352

Stockton & T (As Approved) - Sacramento County, Summer

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0515	0.0292	0.4021	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		84.7359	84.7359	2.9100e-003		84.8087
Total	0.0515	0.0292	0.4021	8.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		84.7359	84.7359	2.9100e-003		84.8087

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896

Stockton & T (As Approved) - Sacramento County, Summer

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0773	0.0439	0.6032	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		127.1038	127.1038	4.3700e-003		127.2131
Total	0.0773	0.0439	0.6032	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		127.1038	127.1038	4.3700e-003		127.2131

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896

Stockton & T (As Approved) - Sacramento County, Summer

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0773	0.0439	0.6032	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		127.1038	127.1038	4.3700e-003		127.2131
Total	0.0773	0.0439	0.6032	1.2800e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		127.1038	127.1038	4.3700e-003		127.2131

3.6 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232

Stockton & T (As Approved) - Sacramento County, Summer

3.6 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0161	0.3797	0.1239	7.6000e-004	0.0181	3.0400e-003	0.0211	5.2000e-003	2.9000e-003	8.1000e-003		80.1235	80.1235	4.9700e-003		80.2477
Worker	0.0464	0.0263	0.3619	7.7000e-004	0.0685	5.0000e-004	0.0690	0.0182	4.6000e-004	0.0186		76.2623	76.2623	2.6200e-003		76.3279
Total	0.0625	0.4060	0.4858	1.5300e-003	0.0865	3.5400e-003	0.0901	0.0234	3.3600e-003	0.0267		156.3857	156.3857	7.5900e-003		156.5755

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	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232

Stockton & T (As Approved) - Sacramento County, Summer

3.6 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0161	0.3797	0.1239	7.6000e-004	0.0181	3.0400e-003	0.0211	5.2000e-003	2.9000e-003	8.1000e-003		80.1235	80.1235	4.9700e-003		80.2477
Worker	0.0464	0.0263	0.3619	7.7000e-004	0.0685	5.0000e-004	0.0690	0.0182	4.6000e-004	0.0186		76.2623	76.2623	2.6200e-003		76.3279
Total	0.0625	0.4060	0.4858	1.5300e-003	0.0865	3.5400e-003	0.0901	0.0234	3.3600e-003	0.0267		156.3857	156.3857	7.5900e-003		156.5755

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	2.7560	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Stockton & T (As Approved) - Sacramento County, Summer

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0103	5.8500e-003	0.0804	1.7000e-004	0.0152	1.1000e-004	0.0153	4.0400e-003	1.0000e-004	4.1400e-003		16.9472	16.9472	5.8000e-004		16.9617
Total	0.0103	5.8500e-003	0.0804	1.7000e-004	0.0152	1.1000e-004	0.0153	4.0400e-003	1.0000e-004	4.1400e-003		16.9472	16.9472	5.8000e-004		16.9617

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	2.4574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	2.7560	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Stockton & T (As Approved) - Sacramento County, Summer

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0103	5.8500e-003	0.0804	1.7000e-004	0.0152	1.1000e-004	0.0153	4.0400e-003	1.0000e-004	4.1400e-003		16.9472	16.9472	5.8000e-004		16.9617
Total	0.0103	5.8500e-003	0.0804	1.7000e-004	0.0152	1.1000e-004	0.0153	4.0400e-003	1.0000e-004	4.1400e-003		16.9472	16.9472	5.8000e-004		16.9617

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Stockton & T (As Approved) - Sacramento 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	0.5081	1.6512	5.4308	0.0140	1.0656	0.0161	1.0817	0.2850	0.0152	0.3002		1,412.1546	1,412.1546	0.0734		1,413.9887
Unmitigated	0.5081	1.6512	5.4308	0.0140	1.0656	0.0161	1.0817	0.2850	0.0152	0.3002		1,412.1546	1,412.1546	0.0734		1,413.9887

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	195.60	195.60	195.60	501,931	501,931
Total	195.60	195.60	195.60	501,931	501,931

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547085	0.042365	0.202414	0.127049	0.023381	0.005779	0.018348	0.021363	0.002103	0.002394	0.006067	0.000620	0.001032

5.0 Energy Detail

Historical Energy Use: N

Stockton & T (As Approved) - Sacramento County, Summer

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763
NaturalGas Unmitigated	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763

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					
Single Family Housing	1563.85	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763
Total		0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763

Stockton & T (As Approved) - Sacramento County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	1.56385	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763
Total		0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Cleaning Supplies

Stockton & T (As Approved) - Sacramento 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	1.0644	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527
Unmitigated	1.1335	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527

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	0.1481					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0609	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109		3.5653	3.5653	3.5000e-003		3.6527
Total	1.1335	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527

Stockton & T (As Approved) - Sacramento County, Summer

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1481					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0609	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109		3.5653	3.5653	3.5000e-003		3.6527
Total	1.0644	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Stockton & T (As Approved) - Sacramento County, Summer

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Stockton & T (As Approved) - Sacramento County, Winter

Stockton & T (As Approved)
Sacramento County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	24.00	Dwelling Unit	2.08	43,200.00	64

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	470.36	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity adjusted per SMUD progress towards RPS

Land Use - *

Construction Phase - *

Grading - *

Vehicle Trips - Fehr and Peers provided trip rate & trip reductions

Energy Use - Adjusted for compliance with 2016 Title 24

Area Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

Stockton & T (As Approved) - Sacramento County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	220.00
tblConstructionPhase	NumDays	20.00	10.00
tblConstructionPhase	PhaseEndDate	10/17/2019	12/27/2018
tblConstructionPhase	PhaseEndDate	11/29/2018	12/13/2018
tblConstructionPhase	PhaseEndDate	12/13/2018	2/8/2018
tblConstructionPhase	PhaseStartDate	12/14/2018	2/23/2018
tblConstructionPhase	PhaseStartDate	1/26/2018	2/9/2018
tblConstructionPhase	PhaseStartDate	11/30/2018	1/26/2018
tblEnergyUse	T24E	768.93	553.63
tblEnergyUse	T24NG	29,300.87	21,096.63
tblGrading	AcresOfGrading	3.00	2.08
tblGrading	AcresOfGrading	4.50	0.00
tblLandUse	LotAcreage	7.79	2.08
tblProjectCharacteristics	CO2IntensityFactor	590.31	470.36
tblProjectCharacteristics	OperationalYear	2018	2019
tblVehicleTrips	ST_TR	9.91	8.15
tblVehicleTrips	SU_TR	8.62	8.15
tblVehicleTrips	WD_TR	9.52	8.15

2.0 Emissions Summary

Stockton & T (As Approved) - Sacramento 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	1.1335	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527
Energy	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763
Mobile	0.3897	1.7891	5.0432	0.0126	1.0656	0.0163	1.0819	0.2850	0.0154	0.3004		1,274.3716	1,274.3716	0.0723		1,276.1792
Total	1.5400	1.9562	7.0943	0.0136	1.0656	0.0388	1.1044	0.2850	0.0379	0.3230	0.0000	1,461.9198	1,461.9198	0.0793	3.3700e-003	1,464.9082

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	1.0644	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527
Energy	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763
Mobile	0.3897	1.7891	5.0432	0.0126	1.0656	0.0163	1.0819	0.2850	0.0154	0.3004		1,274.3716	1,274.3716	0.0723		1,276.1792
Total	1.4709	1.9562	7.0943	0.0136	1.0656	0.0388	1.1044	0.2850	0.0379	0.3230	0.0000	1,461.9198	1,461.9198	0.0793	3.3700e-003	1,464.9082

Stockton & T (As Approved) - Sacramento 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	4.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2018	1/12/2018	5	10	
2	Site Preparation	Site Preparation	1/13/2018	1/17/2018	5	3	
3	Grading	Grading	1/18/2018	1/25/2018	5	6	
4	Paving	Paving	1/26/2018	2/8/2018	5	10	
5	Building Construction	Building Construction	2/9/2018	12/13/2018	5	220	
6	Architectural Coating	Architectural Coating	2/23/2018	12/27/2018	5	220	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2.08

Acres of Paving: 0

Residential Indoor: 87,480; Residential Outdoor: 29,160; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Stockton & T (As Approved) - Sacramento County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Building Construction	Cranes	1	8.00	231	0.29
Building Construction	Forklifts	2	7.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Welders	3	8.00	46	0.45
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	8.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	3	8.00	97	0.37
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Tractors/Loaders/Backhoes	2	7.00	97	0.37
Paving	Cement and Mortar Mixers	1	8.00	9	0.56
Paving	Pavers	1	8.00	130	0.42
Paving	Paving Equipment	1	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Scrapers	1	8.00	367	0.48
Site Preparation	Tractors/Loaders/Backhoes	1	7.00	97	0.37

Trips and VMT

Stockton & T (As Approved) - Sacramento County, Winter

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
Architectural Coating	1	2.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	9.00	3.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	5	13.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	3	8.00	0.00	0.00	10.00	6.50	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429		2,391.1659	2,391.1659	0.6058		2,406.3105

Stockton & T (As Approved) - Sacramento County, Winter

3.2 Demolition - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0618	0.0470	0.4526	9.7000e-004	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		96.7583	96.7583	3.3700e-003		96.8427
Total	0.0618	0.0470	0.4526	9.7000e-004	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		96.7583	96.7583	3.3700e-003		96.8427

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	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105
Total	2.4838	24.3641	15.1107	0.0241		1.4365	1.4365		1.3429	1.3429	0.0000	2,391.1659	2,391.1659	0.6058		2,406.3105

Stockton & T (As Approved) - Sacramento County, Winter

3.2 Demolition - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0618	0.0470	0.4526	9.7000e-004	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		96.7583	96.7583	3.3700e-003		96.8427
Total	0.0618	0.0470	0.4526	9.7000e-004	0.0989	7.3000e-004	0.0996	0.0262	6.7000e-004	0.0269		96.7583	96.7583	3.3700e-003		96.8427

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777		2,468.413 1	2,468.413 1	0.7685		2,487.624 4
Total	1.8995	23.6201	12.7461	0.0245	0.0000	0.9540	0.9540	0.0000	0.8777	0.8777		2,468.413 1	2,468.413 1	0.7685		2,487.624 4

Stockton & T (As Approved) - Sacramento County, Winter

3.3 Site Preparation - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0380	0.0289	0.2785	6.0000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		59.5436	59.5436	2.0800e-003		59.5955
Total	0.0380	0.0289	0.2785	6.0000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		59.5436	59.5436	2.0800e-003		59.5955

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000			0.0000			0.0000
Off-Road	1.8995	23.6201	12.7461	0.0245		0.9540	0.9540		0.8777	0.8777	0.0000	2,468.413 1	2,468.413 1	0.7685		2,487.624 4
Total	1.8995	23.6201	12.7461	0.0245	0.0000	0.9540	0.9540	0.0000	0.8777	0.8777	0.0000	2,468.413 1	2,468.413 1	0.7685		2,487.624 4

Stockton & T (As Approved) - Sacramento County, Winter

3.3 Site Preparation - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0380	0.0289	0.2785	6.0000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		59.5436	59.5436	2.0800e-003		59.5955
Total	0.0380	0.0289	0.2785	6.0000e-004	0.0609	4.5000e-004	0.0613	0.0161	4.1000e-004	0.0166		59.5436	59.5436	2.0800e-003		59.5955

3.4 Grading - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.3897	0.0000	6.3897	3.3499	0.0000	3.3499			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748		2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.3897	1.1683	7.5580	3.3499	1.0748	4.4248		2,077.4666	2,077.4666	0.6467		2,093.6352

Stockton & T (As Approved) - Sacramento County, Winter

3.4 Grading - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0475	0.0362	0.3482	7.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		74.4295	74.4295	2.6000e-003		74.4944
Total	0.0475	0.0362	0.3482	7.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		74.4295	74.4295	2.6000e-003		74.4944

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					6.3897	0.0000	6.3897	3.3499	0.0000	3.3499			0.0000			0.0000
Off-Road	2.1515	24.2895	10.3804	0.0206		1.1683	1.1683		1.0748	1.0748	0.0000	2,077.4666	2,077.4666	0.6467		2,093.6352
Total	2.1515	24.2895	10.3804	0.0206	6.3897	1.1683	7.5580	3.3499	1.0748	4.4248	0.0000	2,077.4666	2,077.4666	0.6467		2,093.6352

Stockton & T (As Approved) - Sacramento County, Winter

3.4 Grading - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0475	0.0362	0.3482	7.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		74.4295	74.4295	2.6000e-003		74.4944
Total	0.0475	0.0362	0.3482	7.5000e-004	0.0761	5.6000e-004	0.0766	0.0202	5.2000e-004	0.0207		74.4295	74.4295	2.6000e-003		74.4944

3.5 Paving - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836		1,774.2430	1,774.2430	0.5419		1,787.7896

Stockton & T (As Approved) - Sacramento County, Winter

3.5 Paving - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0713	0.0543	0.5222	1.1200e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		111.6442	111.6442	3.8900e-003		111.7415
Total	0.0713	0.0543	0.5222	1.1200e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		111.6442	111.6442	3.8900e-003		111.7415

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.4046	14.2518	11.9787	0.0178		0.8505	0.8505		0.7836	0.7836	0.0000	1,774.2430	1,774.2430	0.5419		1,787.7896

Stockton & T (As Approved) - Sacramento County, Winter

3.5 Paving - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0713	0.0543	0.5222	1.1200e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		111.6442	111.6442	3.8900e-003		111.7415
Total	0.0713	0.0543	0.5222	1.1200e-003	0.1141	8.4000e-004	0.1149	0.0303	7.7000e-004	0.0310		111.6442	111.6442	3.8900e-003		111.7415

3.6 Building Construction - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051		2,329.7759	2,329.7759	0.5019		2,342.3232

Stockton & T (As Approved) - Sacramento County, Winter

3.6 Building Construction - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0170	0.3898	0.1400	7.4000e-004	0.0181	3.1100e-003	0.0212	5.2000e-003	2.9800e-003	8.1700e-003		78.1380	78.1380	5.3800e-003		78.2726
Worker	0.0428	0.0326	0.3133	6.7000e-004	0.0685	5.0000e-004	0.0690	0.0182	4.6000e-004	0.0186		66.9865	66.9865	2.3400e-003		67.0449
Total	0.0597	0.4224	0.4533	1.4100e-003	0.0865	3.6100e-003	0.0901	0.0234	3.4400e-003	0.0268		145.1245	145.1245	7.7200e-003		145.3175

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	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232
Total	2.9127	20.7077	15.7183	0.0250		1.2575	1.2575		1.2051	1.2051	0.0000	2,329.7759	2,329.7759	0.5019		2,342.3232

Stockton & T (As Approved) - Sacramento County, Winter

3.6 Building Construction - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	0.0170	0.3898	0.1400	7.4000e-004	0.0181	3.1100e-003	0.0212	5.2000e-003	2.9800e-003	8.1700e-003		78.1380	78.1380	5.3800e-003		78.2726
Worker	0.0428	0.0326	0.3133	6.7000e-004	0.0685	5.0000e-004	0.0690	0.0182	4.6000e-004	0.0186		66.9865	66.9865	2.3400e-003		67.0449
Total	0.0597	0.4224	0.4533	1.4100e-003	0.0865	3.6100e-003	0.0901	0.0234	3.4400e-003	0.0268		145.1245	145.1245	7.7200e-003		145.3175

3.7 Architectural Coating - 2018

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	2.4574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171
Total	2.7560	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

Stockton & T (As Approved) - Sacramento County, Winter

3.7 Architectural Coating - 2018

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	9.5100e-003	7.2300e-003	0.0696	1.5000e-004	0.0152	1.1000e-004	0.0153	4.0400e-003	1.0000e-004	4.1400e-003		14.8859	14.8859	5.2000e-004		14.8989
Total	9.5100e-003	7.2300e-003	0.0696	1.5000e-004	0.0152	1.1000e-004	0.0153	4.0400e-003	1.0000e-004	4.1400e-003		14.8859	14.8859	5.2000e-004		14.8989

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	2.4574					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2986	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171
Total	2.7560	2.0058	1.8542	2.9700e-003		0.1506	0.1506		0.1506	0.1506	0.0000	281.4485	281.4485	0.0267		282.1171

Stockton & T (As Approved) - Sacramento County, Winter

3.7 Architectural Coating - 2018

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	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	9.5100e-003	7.2300e-003	0.0696	1.5000e-004	0.0152	1.1000e-004	0.0153	4.0400e-003	1.0000e-004	4.1400e-003		14.8859	14.8859	5.2000e-004		14.8989
Total	9.5100e-003	7.2300e-003	0.0696	1.5000e-004	0.0152	1.1000e-004	0.0153	4.0400e-003	1.0000e-004	4.1400e-003		14.8859	14.8859	5.2000e-004		14.8989

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

Stockton & T (As Approved) - Sacramento 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	0.3897	1.7891	5.0432	0.0126	1.0656	0.0163	1.0819	0.2850	0.0154	0.3004		1,274.3716	1,274.3716	0.0723		1,276.1792
Unmitigated	0.3897	1.7891	5.0432	0.0126	1.0656	0.0163	1.0819	0.2850	0.0154	0.3004		1,274.3716	1,274.3716	0.0723		1,276.1792

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Single Family Housing	195.60	195.60	195.60	501,931	501,931
Total	195.60	195.60	195.60	501,931	501,931

4.3 Trip Type Information

Land Use	Miles			Trip %			Trip Purpose %		
	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Single Family Housing	10.00	5.00	6.50	46.50	12.50	41.00	86	11	3

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Single Family Housing	0.547085	0.042365	0.202414	0.127049	0.023381	0.005779	0.018348	0.021363	0.002103	0.002394	0.006067	0.000620	0.001032

5.0 Energy Detail

Historical Energy Use: N

Stockton & T (As Approved) - Sacramento County, Winter

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763
NaturalGas Unmitigated	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763

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					
Single Family Housing	1563.85	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763
Total		0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763

Stockton & T (As Approved) - Sacramento County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Single Family Housing	1.56385	0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763
Total		0.0169	0.1441	0.0613	9.2000e-004		0.0117	0.0117		0.0117	0.0117		183.9829	183.9829	3.5300e-003	3.3700e-003	185.0763

6.0 Area Detail

6.1 Mitigation Measures Area

Use Low VOC Cleaning Supplies

Stockton & T (As Approved) - Sacramento 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	1.0644	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527
Unmitigated	1.1335	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527

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	0.1481					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.9245					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0609	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109		3.5653	3.5653	3.5000e-003		3.6527
Total	1.1335	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527

Stockton & T (As Approved) - Sacramento County, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1481					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.8554					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0609	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109		3.5653	3.5653	3.5000e-003		3.6527
Total	1.0644	0.0231	1.9898	1.0000e-004		0.0109	0.0109		0.0109	0.0109	0.0000	3.5653	3.5653	3.5000e-003	0.0000	3.6527

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

Stockton & T (As Approved) - Sacramento County, Winter

Fire Pumps and Emergency Generators

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

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

Equipment Type	Number
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11.0 Vegetation

Stockton & T (As Approved)
Sacramento County, Mitigation Report

Construction Mitigation Summary

Phase	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grading	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OFFROAD Equipment Mitigation

Equipment Type	Fuel Type	Tier	Number Mitigated	Total Number of Equipment	DPF	Oxidation Catalyst
Air Compressors	Diesel	No Change	0	1	No Change	0.00
Cement and Mortar Mixers	Diesel	No Change	0	1	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	1	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Generator Sets	Diesel	No Change	0	1	No Change	0.00
Graders	Diesel	No Change	0	2	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Paving Equipment	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	2	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Scrapers	Diesel	No Change	0	1	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	No Change	0.00
Welders	Diesel	No Change	0	3	No Change	0.00

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Unmitigated tons/yr							Unmitigated mt/yr					
Air Compressors	3.28500E-002	2.20630E-001	2.03960E-001	3.30000E-004	1.65600E-002	1.65600E-002	0.00000E+000	2.80858E+001	2.80858E+001	2.67000E-003	0.00000E+000	2.81526E+001
Cement and Mortar Mixers	2.90000E-004	1.84000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29730E-001
Concrete/Industrial Saws	2.60000E-003	1.95700E-002	1.86200E-002	3.00000E-005	1.33000E-003	1.33000E-003	0.00000E+000	2.68828E+000	2.68828E+000	2.10000E-004	0.00000E+000	2.69349E+000
Cranes	6.27800E-002	7.50290E-001	2.77400E-001	6.30000E-004	3.24700E-002	2.98800E-002	0.00000E+000	5.79381E+001	5.79381E+001	1.80400E-002	0.00000E+000	5.83890E+001
Forklifts	3.42900E-002	3.03090E-001	2.33160E-001	2.90000E-004	2.41900E-002	2.22500E-002	0.00000E+000	2.68564E+001	2.68564E+001	8.36000E-003	0.00000E+000	2.70654E+001
Generator Sets	5.55900E-002	4.52470E-001	4.12190E-001	7.20000E-004	2.88200E-002	2.88200E-002	0.00000E+000	6.21728E+001	6.21728E+001	4.49000E-003	0.00000E+000	6.22850E+001
Graders	2.34000E-003	3.20700E-002	8.62000E-003	3.00000E-005	1.04000E-003	9.60000E-004	0.00000E+000	2.73490E+000	2.73490E+000	8.50000E-004	0.00000E+000	2.75618E+000
Pavers	1.63000E-003	1.80400E-002	1.46300E-002	2.00000E-005	8.80000E-004	8.10000E-004	0.00000E+000	2.14609E+000	2.14609E+000	6.70000E-004	0.00000E+000	2.16280E+000
Paving Equipment	1.19000E-003	1.32900E-002	1.26800E-002	2.00000E-005	6.50000E-004	6.00000E-004	0.00000E+000	1.85975E+000	1.85975E+000	5.80000E-004	0.00000E+000	1.87423E+000
Rollers	2.58000E-003	2.49300E-002	1.93500E-002	3.00000E-005	1.72000E-003	1.58000E-003	0.00000E+000	2.39412E+000	2.39412E+000	7.50000E-004	0.00000E+000	2.41275E+000
Rubber Tired Dozers	9.33000E-003	1.00480E-001	3.50100E-002	7.00000E-005	4.88000E-003	4.49000E-003	0.00000E+000	6.24269E+000	6.24269E+000	1.94000E-003	0.00000E+000	6.29127E+000
Scrapers	1.72000E-003	2.12900E-002	1.31800E-002	2.00000E-005	8.40000E-004	7.70000E-004	0.00000E+000	2.07491E+000	2.07491E+000	6.50000E-004	0.00000E+000	2.09106E+000
Tractors/Loaders/Backhoes	2.90200E-002	2.86800E-001	2.54850E-001	3.40000E-004	2.03200E-002	1.86900E-002	0.00000E+000	3.09460E+001	3.09460E+001	9.63000E-003	0.00000E+000	3.11869E+001
Welders	1.45780E-001	5.55040E-001	6.13480E-001	8.40000E-004	3.74700E-002	3.74700E-002	0.00000E+000	6.21128E+001	6.21128E+001	1.19100E-002	0.00000E+000	6.24106E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Mitigated tons/yr							Mitigated mt/yr					
Air Compressors	3.28500E-002	2.20630E-001	2.03960E-001	3.30000E-004	1.65600E-002	1.65600E-002	0.00000E+000	2.80858E+001	2.80858E+001	2.67000E-003	0.00000E+000	2.81525E+001
Cement and Mortar Mixers	2.90000E-004	1.84000E-003	1.54000E-003	0.00000E+000	7.00000E-005	7.00000E-005	0.00000E+000	2.29140E-001	2.29140E-001	2.00000E-005	0.00000E+000	2.29730E-001
Concrete/Industrial Saws	2.60000E-003	1.95700E-002	1.86200E-002	3.00000E-005	1.33000E-003	1.33000E-003	0.00000E+000	2.68828E+000	2.68828E+000	2.10000E-004	0.00000E+000	2.69348E+000
Cranes	6.27800E-002	7.50290E-001	2.77400E-001	6.30000E-004	3.24700E-002	2.98800E-002	0.00000E+000	5.79380E+001	5.79380E+001	1.80400E-002	0.00000E+000	5.83889E+001
Forklifts	3.42900E-002	3.03090E-001	2.33160E-001	2.90000E-004	2.41900E-002	2.22500E-002	0.00000E+000	2.68564E+001	2.68564E+001	8.36000E-003	0.00000E+000	2.70654E+001
Generator Sets	5.55900E-002	4.52470E-001	4.12190E-001	7.20000E-004	2.88200E-002	2.88200E-002	0.00000E+000	6.21728E+001	6.21728E+001	4.49000E-003	0.00000E+000	6.22849E+001
Graders	2.34000E-003	3.20700E-002	8.62000E-003	3.00000E-005	1.04000E-003	9.60000E-004	0.00000E+000	2.73489E+000	2.73489E+000	8.50000E-004	0.00000E+000	2.75618E+000
Pavers	1.63000E-003	1.80400E-002	1.46300E-002	2.00000E-005	8.80000E-004	8.10000E-004	0.00000E+000	2.14609E+000	2.14609E+000	6.70000E-004	0.00000E+000	2.16279E+000
Paving Equipment	1.19000E-003	1.32900E-002	1.26800E-002	2.00000E-005	6.50000E-004	6.00000E-004	0.00000E+000	1.85975E+000	1.85975E+000	5.80000E-004	0.00000E+000	1.87422E+000
Rollers	2.58000E-003	2.49300E-002	1.93500E-002	3.00000E-005	1.72000E-003	1.58000E-003	0.00000E+000	2.39412E+000	2.39412E+000	7.50000E-004	0.00000E+000	2.41275E+000
Rubber Tired Dozers	9.33000E-003	1.00480E-001	3.50100E-002	7.00000E-005	4.88000E-003	4.49000E-003	0.00000E+000	6.24268E+000	6.24268E+000	1.94000E-003	0.00000E+000	6.29127E+000
Scrapers	1.72000E-003	2.12900E-002	1.31800E-002	2.00000E-005	8.40000E-004	7.70000E-004	0.00000E+000	2.07491E+000	2.07491E+000	6.50000E-004	0.00000E+000	2.09106E+000
Tractors/Loaders/Backhoes	2.90200E-002	2.86800E-001	2.54850E-001	3.40000E-004	2.03200E-002	1.86900E-002	0.00000E+000	3.09460E+001	3.09460E+001	9.63000E-003	0.00000E+000	3.11868E+001
Welders	1.45780E-001	5.55040E-001	6.13470E-001	8.40000E-004	3.74700E-002	3.74700E-002	0.00000E+000	6.21127E+001	6.21127E+001	1.19100E-002	0.00000E+000	6.24106E+001

Equipment Type	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Air Compressors	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.06815E-006	1.06815E-006	0.00000E+000	0.00000E+000	1.06562E-006
Cement and Mortar Mixers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Concrete/Industrial Saws	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.71266E-006
Cranes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20819E-006	1.20819E-006	0.00000E+000	0.00000E+000	1.19886E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.11705E-006	1.11705E-006	0.00000E+000	0.00000E+000	1.47790E-006
Generator Sets	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.12589E-006	1.12589E-006	0.00000E+000	0.00000E+000	1.28442E-006
Graders	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	3.65644E-006	3.65644E-006	0.00000E+000	0.00000E+000	0.00000E+000
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	4.62364E-006
Paving Equipment	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	5.33552E-006
Rollers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Rubber Tired Dozers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.60187E-006	1.60187E-006	0.00000E+000	0.00000E+000	0.00000E+000
Scrapers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000
Tractors/Loaders/Backhoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.29257E-006	1.29257E-006	0.00000E+000	0.00000E+000	1.28259E-006
Welders	0.00000E+000	0.00000E+000	1.63004E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.28798E-006	1.28798E-006	0.00000E+000	0.00000E+000	1.28183E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
No	Soil Stabilizer for unpaved Roads	PM10 Reduction	PM2.5 Reduction	
No	Replace Ground Cover of Area Disturbed	PM10 Reduction	PM2.5 Reduction	
No	Water Exposed Area	PM10 Reduction	PM2.5 Reduction	Frequency (per day)

No	Unpaved Road Mitigation	Moisture Content %		Vehicle Speed (mph)			
No	Clean Paved Road	% PM Reduction	0.00				

Phase	Source	Unmitigated		Mitigated		Percent Reduction	
		PM10	PM2.5	PM10	PM2.5	PM10	PM2.5
Architectural Coating	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Architectural Coating	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Building Construction	Roads	0.01	0.00	0.01	0.00	0.00	0.00
Demolition	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.02	0.01	0.02	0.01	0.00	0.00
Grading	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Paving	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Fugitive Dust	0.00	0.00	0.00	0.00	0.00	0.00
Site Preparation	Roads	0.00	0.00	0.00	0.00	0.00	0.00

Operational Percent Reduction Summary

Category	ROG	NOx	CO	SO2	Exhaust PM10	Exhaust PM2.5	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Percent Reduction												
Architectural Coating	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	7.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Electricity	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Landscaping	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Natural Gas	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Indoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Water Outdoor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Operational Mobile Mitigation

Project Setting:

Mitigation	Category	Measure	% Reduction	Input Value 1	Input Value 2	Input Value
No	Land Use	Increase Density	0.00			
No	Land Use	Increase Diversity	-0.01	0.13		
No	Land Use	Improve Walkability Design	0.00			
No	Land Use	Improve Destination Accessibility	0.00			
No	Land Use	Increase Transit Accessibility	0.25			
No	Land Use	Integrate Below Market Rate Housing	0.00			
	Land Use	Land Use SubTotal	0.00			

No	Neighborhood Enhancements	Improve Pedestrian Network			
No	Neighborhood Enhancements	Provide Traffic Calming Measures			
No	Neighborhood Enhancements	Implement NEV Network	0.00		
	Neighborhood Enhancements	Neighborhood Enhancements Subtotal	0.00		
No	Parking Policy Pricing	Limit Parking Supply	0.00		
No	Parking Policy Pricing	Unbundle Parking Costs	0.00		
No	Parking Policy Pricing	On-street Market Pricing	0.00		
	Parking Policy Pricing	Parking Policy Pricing Subtotal	0.00		
No	Transit Improvements	Provide BRT System	0.00		
No	Transit Improvements	Expand Transit Network	0.00		
No	Transit Improvements	Increase Transit Frequency	0.00		
	Transit Improvements	Transit Improvements Subtotal	0.00		
		Land Use and Site Enhancement Subtotal	0.00		
No	Commute	Implement Trip Reduction Program			
No	Commute	Transit Subsidy			
No	Commute	Implement Employee Parking "Cash Out"			
No	Commute	Workplace Parking Charge			
No	Commute	Encourage Telecommuting and Alternative Work Schedules	0.00		
No	Commute	Market Commute Trip Reduction Option	0.00		
No	Commute	Employee Vanpool/Shuttle	0.00		2.00
No	Commute	Provide Ride Sharing Program			
	Commute	Commute Subtotal	0.00		

No	School Trip	Implement School Bus Program	0.00		
		Total VMT Reduction	0.00		

Area Mitigation

Measure Implemented	Mitigation Measure	Input Value
No	Only Natural Gas Hearth	
No	No Hearth	
Yes	Use Low VOC Cleaning Supplies	
No	Use Low VOC Paint (Residential Interior)	100.00
No	Use Low VOC Paint (Residential Exterior)	100.00
No	Use Low VOC Paint (Non-residential Interior)	100.00
No	Use Low VOC Paint (Non-residential Exterior)	100.00
No	Use Low VOC Paint (Parking)	100.00
No	% Electric Lawnmower	0.00
No	% Electric Leafblower	0.00
No	% Electric Chainsaw	0.00

Energy Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Exceed Title 24		
No	Install High Efficiency Lighting		
No	On-site Renewable		

Appliance Type	Land Use Subtype	% Improvement
ClothWasher		30.00
DishWasher		15.00
Fan		50.00
Refrigerator		15.00

Water Mitigation Measures

Measure Implemented	Mitigation Measure	Input Value 1	Input Value 2
No	Apply Water Conservation on Strategy		
No	Use Reclaimed Water		
No	Use Grey Water		
No	Install low-flow bathroom faucet	32.00	
No	Install low-flow Kitchen faucet	18.00	
No	Install low-flow Toilet	20.00	
No	Install low-flow Shower	20.00	
No	Turf Reduction		
No	Use Water Efficient Irrigation Systems	6.10	
No	Water Efficient Landscape		

Solid Waste Mitigation

Mitigation Measures	Input Value
---------------------	-------------

Institute Recycling and Composting Services Percent Reduction in Waste Disposed	
--	--

Stockton & T (As Approved) - Sacramento County, Summary Report

Stockton & T (As Approved)
Sacramento, Summary Report

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Single Family Housing	24.00	Dwelling Unit	2.08	43,200.00	64

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	3.5	Precipitation Freq (Days)	58
Climate Zone	6			Operational Year	2019
Utility Company	Sacramento Municipal Utility District				
CO2 Intensity (lb/MW hr)	470.36	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Stockton & T (As Approved) - Sacramento County, Summary Report

Project Characteristics - CO2 Intensity adjusted per SMUD progress towards RPS

Land Use - *

Construction Phase - *

Grading - *

Vehicle Trips - Fehr and Peers provided trip rate & trip reductions

Energy Use - Adjusted for compliance with 2016 Title 24

Area Mitigation -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

2.0 Peak Daily Emissions

Peak Daily Construction Emissions

Peak Daily Construction Emissions

Stockton & T (As Approved) - Sacramento County, Summary Report

Year	Phase	Unmitigated						Mitigated					
		ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5
		lb/day											
2018	Demolition	2.5508 S	24.4111 W	15.6335 S	0.0252 S	1.5361 S	1.3698 S	2.5508 S	24.4111 W	15.6335 S	0.0252 S	1.5361 S	1.3698 S
2018	Site Preparation	1.9407 S	23.6490 W	13.0677 S	0.0252 S	1.0153 S	0.8942 S	1.9407 S	23.6490 W	13.0677 S	0.0252 S	1.0153 S	0.8942 S
2018	Grading	2.2030 S	24.3256 W	10.7825 S	0.0215 S	7.6347 S	4.4454 S	2.2030 S	24.3256 W	10.7825 S	0.0215 S	7.6347 S	4.4454 S
2018	Paving	1.4819 S	14.3060 W	12.5819 S	0.0191 S	0.9654 S	0.8146 S	1.4819 S	14.3060 W	12.5819 S	0.0191 S	0.9654 S	0.8146 S
2018	Building Construction	2.9752 S	21.1300 W	16.2041 S	0.0265 S	1.3476 W	1.2319 W	2.9752 S	21.1300 W	16.2041 S	0.0265 S	1.3476 W	1.2319 W
2018	Architectural Coating	2.7663 S	2.0130 W	1.9346 S	3.1400e-003 S	0.1659 S	0.1547 S	2.7663 S	2.0130 W	1.9346 S	3.1400e-003 S	0.1659 S	0.1547 S
	Peak Daily Total	2.9752 S	24.4111 W	16.2041 S	0.0265 S	7.6347 S	4.4454 S	2.9752 S	24.4111 W	16.2041 S	0.0265 S	7.6347 S	4.4454 S
	Air District Threshold												
	Exceed Significance?												

Peak Daily Operational Emissions

Peak Daily Operational Emissions

Operational Activity	Unmitigated						Mitigated						
	ROG	NOX	CO	SO2	PM10	PM2.5	ROG	NOX	CO	SO2	PM10	PM2.5	
		lb/day											
On-Site	Area	1.1335 S	0.0231 S	1.9898 S	1.0000e-004 S	0.0109 S	0.0109 S	1.0644 S	0.0231 S	1.9898 S	1.0000e-004 S	0.0109 S	0.0109 S
On-Site	Energy	0.0169 S	0.1441 S	0.0613 S	9.2000e-004 S	0.0117 S	0.0117 S	0.0169 S	0.1441 S	0.0613 S	9.2000e-004 S	0.0117 S	0.0117 S
Off-Site	Mobile	0.5081 S	1.7891 W	5.4308 S	0.0140 S	1.0819 W	0.3004 W	0.5081 S	1.7891 W	5.4308 S	0.0140 S	1.0819 W	0.3004 W
	Peak Daily Total	1.6585 S	1.9562 W	7.4820 S	0.0150 S	1.1044 W	0.3230 W	1.5894 S	1.9562 W	7.4820 S	0.0150 S	1.1044 W	0.3230 W
	Air District Threshold												
	Exceed Significance?												

3.0 Annual GHG Emissions

ATTACHMENT E
CAP CONSISTENCY REVIEW CHECKLIST

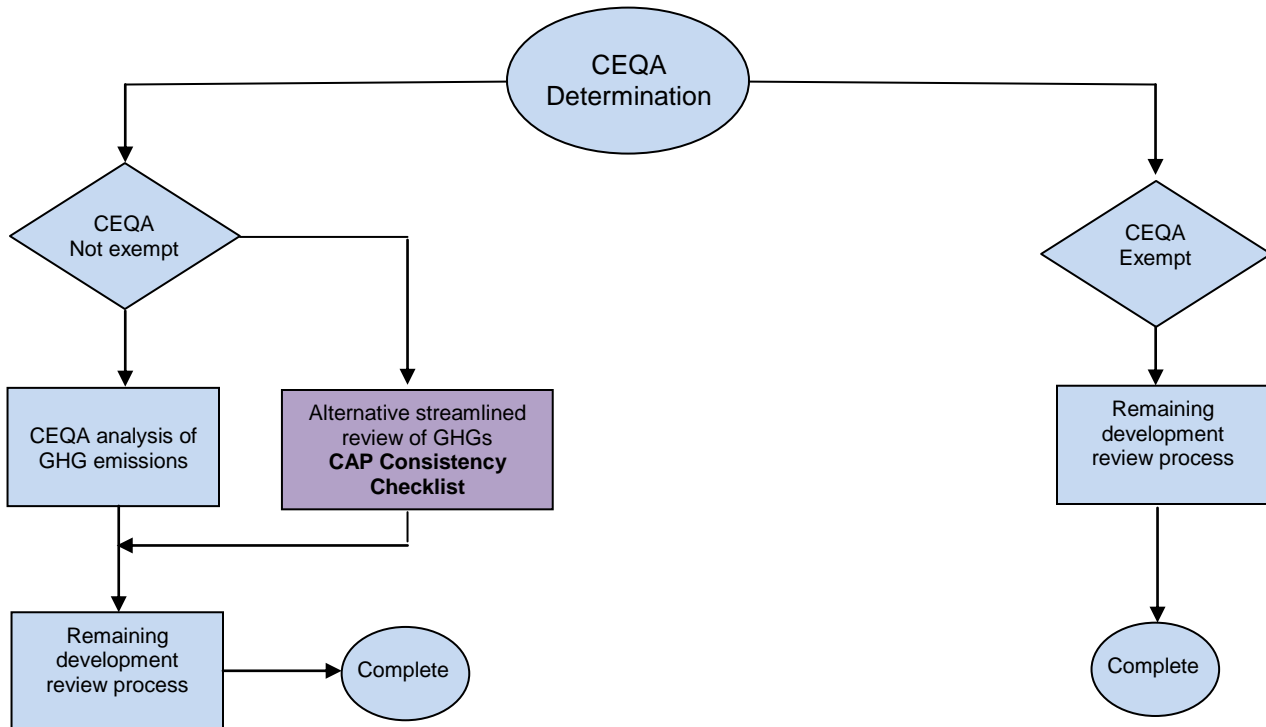
CLIMATE ACTION PLAN – CONSISTENCY REVIEW CHECKLIST

The purpose of the Climate Action Plan Consistency Review Checklist (CAP Consistency Review Checklist) is to provide a streamlined review process for proposed new development projects which are subject to discretionary review and trigger environmental review pursuant to the California Environmental Quality Act (CEQA)..

CEQA Guidelines require the analysis of greenhouse gas (GHG) emissions and potential climate change impacts from new development. The Sacramento Climate Action Plan qualifies under section 15183.5 of the CEQA Guidelines as a plan for the reduction of GHG emissions for use in cumulative impact analysis pertaining to development projects. This allows projects that demonstrate consistency with the CAP to be eligible for this streamlining procedure. Projects that demonstrate consistency with the CAP and the Sacramento 2030 General Plan may be able to answer “No additional significant environmental effect” in the City’s initial study checklist. Projects that do not demonstrate consistency may, at the City’s discretion, prepare a more comprehensive project-specific analysis of GHG emissions consistent with CEQA requirements. (See FAQ about the CAP Consistency Review Checklist for more details.)

The diagram below shows the context for the CAP Consistency Review Checklist within the planning review process framework.

Streamlined Review of GHG Emissions in Development Projects



CLIMATE ACTION PLAN – CONSISTENCY REVIEW CHECKLIST

Application Submittal Requirements

1. The CAP Consistency Review Checklist is required only for proposed new development projects which are subject to CEQA review (non-exempt projects)
2. If required, the CAP Consistency Review Checklist must be submitted in addition to the basic set of requirements set forth in the Universal Application and the Planning Application Submittal Matrix.
3. The applicant shall work with staff to meet the requirements of this checklist. These requirements will be reflected in the conditions of approval and/or mitigation measures.
4. All conditions of approval and mitigation measures from this checklist shall be shown on full-size sheets for building plan check submittals.

Application Information

Project Number: _____

Address of Property: _____

Was a special consultant retained to complete this checklist? Yes No. If yes, complete following

Consultant Name*: _____

Company: _____

Phone: _____ E-Mail: _____

CAP Consistency Checklist Form for Projects that are Not Exempt from CEQA

Checklist Item (Check the appropriate box, and provide explanation for your answer).	Yes	No*
1. Is the proposed project substantially consistent with the City’s over-all goals for land use and urban form, allowable floor area ratio (FAR) and/or density standards in the City’s 2030 General Plan, as it currently exists?		
Please explain how proposed project compares to 2030 General Plan with respect to density standards, FAR, land use and urban form. (See directions for filling out CAP Checklist)		
2. Would the project reduce average vehicle miles traveled (VMT) per capita of the proposed residents, employees, and/or visitors to the project by a minimum of 35% compared to the statewide average?		
	Yes	No*
	NA	
Please explain how proposed project meets this requirement. If “not applicable”, explain why this was not required. If project does not meet this requirement, see Directions for filling out CAP Consistency Review Checklist for alternatives to meeting checklist requirements.		
(Attach a copy of the VMT model <u>input</u> and output. Record the model and version here _____)		

*If “No”, equivalent or better GHG reduction must be demonstrated as part of the project, and incorporated into conditions of approval.

Note: Requirements from this checklist should be incorporated into the conditions of approval, and shown on the full-size plans submitted for building plan check.

Checklist Item (Check the appropriate box, and provide explanation for your answer).	Yes	NA
3. Would the project incorporate traffic calming measures? <i>(Examples of traffic calming measures include, but are not limited to: curb extensions, speed tables, raised crosswalks, raised intersections, median islands, tight corner radii, roundabouts or mini-circles, on-street parking, planter strips with street trees, chicanes/chokers.)</i>		
Please explain how the proposed project meets this requirement (list traffic calming measures). If “not applicable”, explain why traffic calming measures were not required.		
4. Would the project incorporate pedestrian facilities and connections to public transportation consistent with the City’s Pedestrian Master Plan?	Yes	NA
Please explain how the proposed project meets this requirement. If “not applicable”, explain why this was not required.		

*If “No”, equivalent or better GHG reduction must be demonstrated as part of the project and incorporated into the conditions of approval.

Note: Requirements from this checklist should be incorporated into the conditions of approval, and shown on the full-size plans submitted for building plan check.

5. Would the project incorporate bicycle facilities consistent with the City's Bikeway Master Plan, and meet or exceed minimum standards for bicycle facilities in the Zoning Code and CALGreen?	Yes	NA	
Please explain how the proposed project meets this requirement. If "not applicable", explain why this was not required.			
6. For residential projects of 10 or more units, commercial projects greater than 25,000 square feet, or industrial projects greater than 100,000 square feet, would the project include on-site renewable energy systems (e.g., photovoltaic systems) that would generate at least a minimum of 15% of the project's total energy demand on-site? (CAP Actions: 3.4.1 and 3.4.2)	Yes	No*	NA
Please explain how the proposed project meets this requirement. If "not applicable", explain why this was not required. If project does not meet requirements, see DIRECTIONS FOR FILLING OUT CAP CONSISTENCY REVIEW CHECKLIST re: alternatives to meeting checklist requirements. Attach a copy of the CalEEMod input and output. Record the model and version here _____. Do NOT select the "use historical" box in CalEEMod for energy demand analysis related to this requirement.			
7. Would the project (if constructed on or after January 1, 2014) comply with minimum CALGreen Tier I water efficiency standards?	Yes	NA	
Please explain how the proposed project meets this requirement. If "not applicable", explain why this was not required.			

*If "No", equivalent or better GHG reduction must be demonstrated as part and incorporated into the conditions of approval.
Note: Requirements from this checklist should be incorporated into the conditions of approval, and shown on the full-size plans submitted for building plan check.

Certification

I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this initial evaluation to the best of my ability and that the facts, statements and information presented are true and correct to the best of my knowledge and belief.

Signature: _____ Date: _____

DIRECTIONS FOR FILLING OUT CAP CONSISTENCY REVIEW CHECKLIST

General Plan Consistency

1. Is the proposed project substantially consistent with the land use and urban form designation, allowable floor area ratio (FAR) and/or density standards in the City's [2030 General Plan](#)?

Consistency with the General Plan land use and urban form designation, FAR and/or density standards is a key determining factor in whether or not the CAP Consistency Review procedure can be used. This is because future growth and development consistent with the General Plan was used to estimate business as usual emission forecasts, as well as emission reductions from actions that would be applicable to new development.

Refer to the 2030 General Plan, Land Use and Urban Form Designations and Development Standards starting on page 2-29. If a project is not fully consistent with the General Plan, the project still may qualify for consistency with the CAP, but this determination will need to be closely coordinated with the City. The City will determine whether the proposed land uses under consideration could be found consistent with the growth projections and assumptions used to develop the GHG emissions inventory and projections in the CAP.

Sustainable Land Use

2. Would the project reduce average vehicle miles traveled (VMT) per capita of the proposed residents, employees, and/or visitors to the project by a minimum of 35% compared to the statewide average? (Applicable CAP Action: 1.1.1)

The statewide VMT/capita in 2009 was 8,937 VMT/capita/year, which is approximately 24.5 VMT/capita/day^{1,2}. A 35% reduction below the 2009 statewide average would be 5,809 VMT/capita/year, or about 15.9 VMT/capita/day.

Steps to Determine if Proposed Project is Consistent with CAP Action 1.1.1:

Step 1: Consult VMT/Capita Screening Map:

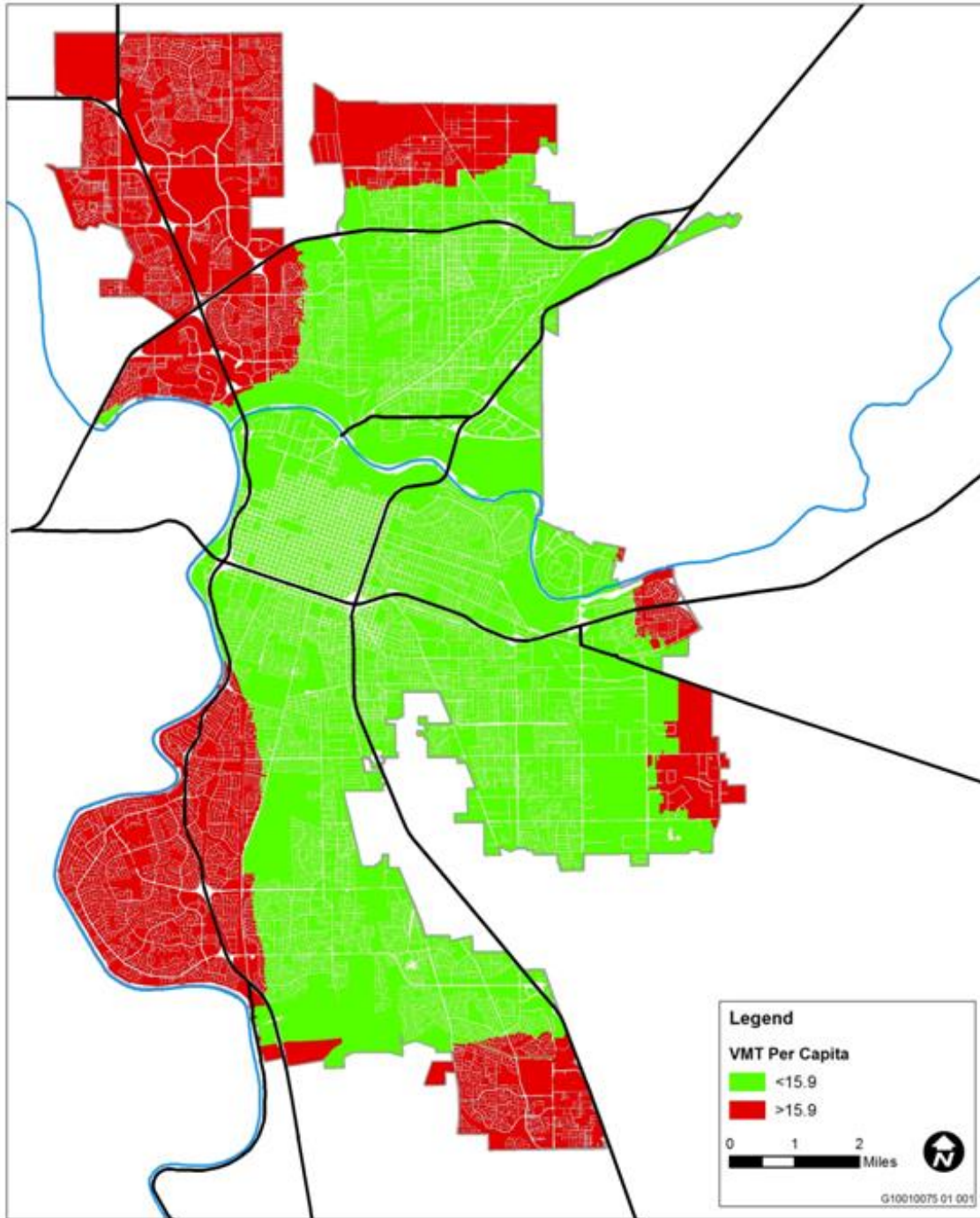
The map below can be used as a quick screening tool to determine whether or not a proposed project is likely to meet the 35% reduction standard based on its geographic location.

If the proposed project is located in the green area of the map, it can be assumed to have a VMT/capita/day below 16, and no further action related to VMT is necessary. If the proposed project is located within one of the red areas, or in a white area adjacent to any red parcel, it cannot be assumed to achieve the standard, and further analysis is required to show that the project is below 16 VMT/capita/day. Proceed to Step 2, and estimate the project VMT using one of the computer modeling tools below.

¹ Federal Highway Administration. 2009. Table VM-2 - Highway Statistics 2009. <http://www.fhwa.dot.gov/policyinformation/statistics/2009/vm2.cfm>.

² U.S. Census Bureau, 2005-2009 American Community Survey.

Exhibit 1: City of Sacramento Daily VMT/Capita, 2008 Base Year
Source: SACOG, SACSIM Model, 2012.



Step 2: VMT Modeling

Download one of computer modeling tools from the following links and follow the user guide for the tool that you have selected. Select the year 2020 as the year of project operation and compare the modeled VMT/capita/day with the City's standard of 15.9 VMT/capita/day. If the result of the computer modeling supports the project's consistency with the City's VMT/capita standard, then the project is considered to comply with CAP Action 1.1.1. If the project's estimated VMT/capita exceeds the City's standard of 15.9, proceed to Step 3.

[California Emission Estimator Model](#) (CalEEMod 2013.2 or most recent version)

CalEEMod is a statewide land use emissions computer model that provides a comprehensive estimate of development project criteria pollutants and GHG emissions associated with both construction and operations from a variety of land use project types.

[Sketch 7 VMT Estimation Tool](#) (Contact SACOG for most recent version)

The Sketch 7 model is a web-based, parcel-level, scenario planning tool that allows users to input land uses and project attributes such as demographic data, design, density, quality of public transit, mix of land uses, and other planning-related features. Sketch 7 estimates VMT/capita and other environmental indicators based on region-specific parameters, local land use plans and the SACSIM model. Sketch 7 also accounts for the interaction of the project's proposed land uses with the surrounding land uses.

Step 3: Additional Mitigation and Further Analysis

If the proposed project does not pass Steps 1 and 2, additional mitigation from another category (such as building energy efficiency) can be substituted as long as this GHG reduction does not "double count" GHG reductions already taken by the CAP. In other words, mitigation will be necessary to reduce GHG emissions from the project beyond what is already accounted for in the CAP (to avoid double-counting).

Step 3(a) - Determine the increment of total VMT by which the project exceeds the City's 15.9 VMT/capita/day standard. For example, if the project would result in 18 VMT/capita/day and proposes to accommodate 400 new residents, the increment that the project would exceed the City's standard would be 306,600 VMT, which equals: $(18 - 15.9 \text{ VMT/capita/day}) * 400 \text{ residents} * 365 \text{ days/year}$.

Step 3(b) - Convert VMT into metric tons carbon dioxide equivalent per year (MT CO₂e/year) by use of a vehicle emission factor. The City recommends using an emission factor of 0.000452 MT CO₂e/VMT, which was obtained from the California Air Resources Board's (ARB's) Mobile-Source Emission Factor Model (EMFAC) and was used to develop the City's GHG inventory in its CAP. In the above example, the project would be required to mitigate approximately 139 MT CO₂e/year through additional mitigation.

Additional mitigation may include equivalent or better GHG reduction from individual measures or a combination of:

- Exceeding energy efficiency standards of Title 24, part 6 of the California Building Code (using 2008 T24 standards as a baseline)
- Generation of greater than 15% of the project's energy on-site through installation of solar panels or other on-site renewable energy technology
- Other land use (e.g., additional amenities), transportation, bicycle, or pedestrian improvements that would reduce VMT not already accounted for in Sketch 7 modeling under Step 2.

The applicant should provide documentation (e.g., [California Emissions Estimator Model \[CalEEMod\]](#)) that the combination of mitigation selected would achieve the equivalent GHG emission reduction necessary to close the gap between the proposed project's VMT/capita/day and the City's standard of 15.9 VMT/capita/day. If the project applicant can present equivalent mitigation as defined by this section, the City would consider the project consistent with CAP Action 1.1.1. If the project applicant could not identify sufficient surplus mitigation to reduce equivalent project-generated GHG emissions, the project would not be consistent with CAP Action 1.1.1.

Mobility

3. Would the project incorporate traffic calming measures? (Applicable CAP Action: 2.1.1)

List the traffic calming measures that have been incorporated into the project. These may include, but are not limited to: curb extensions, speed tables, raised crosswalks, raised intersections, median islands, tight corner radii, roundabouts or mini-circles, on-street parking, planter strips with street trees, chicanes/chokers.

The project proponent and City staff should consult with staff in the Department of Public Works-Transportation Division to verify that traffic calming measures are adequate and in compliance with the City's Street Design Standards.

If the proposed project does not include any roadway or facility improvements, traffic calming measures may not apply. For example, certain infill projects may not result in on-street or transportation facility improvements because sufficient infrastructure already exists

4. Would the project incorporate pedestrian facilities and connections to public transportation consistent with the City's Pedestrian Master Plan? (Applicable CAP Action: 2.2.1)

List the pedestrian facilities and connections to public transportation that have been included in the proposed project on the Checklist. These may include, but are not limited to: sidewalks on both sides of streets, marked crosswalks, count-down signal timers, curb extensions, median islands, transit shelters, street lighting.

The project proponent and City staff should consult with Department of Public Works-Transportation Division staff to verify that pedestrian facilities are consistent with the [Pedestrian Master Plan](#). As in the previous example, if "not applicable", an explanation shall be documented in the Checklist. The "Pedestrian Review Process Guide" ([Appendix A to the Master Plan](#)) will be used to determine consistency, as follows:

- For typical infill development projects where existing streets will serve the site (no new streets are proposed): the level of pedestrian improvements necessary to determine Pedestrian Master Plan consistency will be measured according to the "Basic, Upgrade or Premium" categories defined in Appendix A to the Pedestrian Master Plan, which are based on project location, surrounding land uses, proximity to transit, etc. If the proposed project does not include the minimum level of improvements per the assigned category for the project's location, the project will be required as a condition of approval to include appropriate features, per the approval of the Department of Public Works-Transportation Division.

- For new "greenfield" projects and/or larger infill development projects where new streets are proposed as part of the project, the following will apply:
 - "Basic, Upgrade or Premium" levels of improvement will be required based on the proposed project's location and context, where applicable, consistent with the criteria defined in the Master Plan. If the proposed project does not include the minimum level of improvements per the assigned category, the project will be required as a condition of approval to include appropriate features, per the approval of the Department of Public Works-Transportation Division.
 - The "Pedestrian Smart Growth Scorecard" (Appendix A to the Master Plan) will be required to be completed for the project, and a minimum score of 3 or better will need to be achieved. If the proposed

project cannot achieve the minimum score, changes to the proposed project may be required, and/or the project may be required as a condition of approval to include certain improvements such that the average score will meet 3 or better. (Note: an Excel version of the Pedestrian Smart Growth Scorecard is available, to assist in automating the rating & scoring process)

5. Would the project incorporate bicycle facilities consistent with the City's Bikeway Master Plan, and meet or exceed minimum standards for bicycle facilities in the Zoning Code and CALGreen? (Applicable CAP Action: 2.3.1)

List the bicycle facilities that are incorporated into the proposed project on the Checklist. In addition, list bicycle facilities. These include, but are not limited to: Class I bike trails and Class II bike lanes connecting the project site to an existing bike network and transit stations, bike parking [bike racks, indoor secure bike parking, bike lockers], end-of-trip facilities at non-residential land uses [showers, lockers].

The project proponent and City staff should consult with staff in the Transportation Division of the Department of Public Works to verify that such facilities are consistent with the [Bikeway Master Plan](#) and meet or exceed Zoning Code and CALGreen standards. Generally, the following guidelines will be used:

- If existing on-street and off-street bikeways are already present and determined to be consistent with the Bikeway Master Plan, no additional on-street bikeways will be required. Check the "not applicable" box if appropriate. However, on-site facilities shall still be required to meet or exceed minimum Zoning and CALGreen requirements.
- If not applicable, fully document the reasons why using the Checklist.
- If on-street bicycle facilities are not present or are only partially consistent with the Master Plan, the project will be required as a condition of approval to construct or pay for its fair-share of on-street and/or off-street bikeways described in the Master Plan, in addition to meeting or exceeding minimum on-site facilities.
- In some cases, a combination of new or upgraded on-street and off-street bikeways may be used to determine consistency with the Master Plan, at the discretion of the Department of Public Works-Transportation Division staff.

Energy Efficiency and Renewable Energy

6. For residential projects of 10 or more units, commercial projects greater than 25,000 square feet, or industrial projects greater than 100,000 square feet, would the project include on-site renewable energy systems (e.g., solar photovoltaic, solar water heating etc.) that would generate at least 15% of the project's total energy demand? (CAP Actions: 3.4.1 and 3.4.2)

For projects of the minimum size specified in this measure, a commitment in the project description or in a mitigation measure that the project shall generate a minimum of 15% of the project's energy demand on-site is sufficient to demonstrate consistency with this measure. However, the project conditions of approval or mitigation measures should specify the intended renewable energy technology to be used (e.g. solar photovoltaic, solar water heating, wind, etc.) and estimated size of the systems to meet project demand based on the project description.

"Total energy demand" refers to the energy (electricity and natural gas) consumed by the built environment (including HVAC systems, water heating systems, and lighting systems) as well as uses that are independent of the construction of buildings, such as office equipment and other plug-ins.

Applicants may estimate the total energy demand of their projects using California Emissions Estimator Model (CalEEMod 2013.2), the same software used to estimate greenhouse gas emissions. **For CalEEMod estimates of energy demand to meet this specific requirement, the user should NOT select the “use historical” box, otherwise they will be “double-counting” emissions reductions that have already been counted.** CalEEMod outputs for electricity demand are provided in annual kWh, and natural gas demand is provided in annual kBtu.

The energy demand estimate by CalEEMod is based on two datasets:

- The California Commercial End Use Survey (CEUS);
- The Residential Appliance Saturation Survey (RASS)

CalEEMod takes energy use intensity data (above) and forecasts energy demand based on climate zone, land use subtype (such as “hospital”, “arena”, or “apartments, mid rise”), building area, and the number of buildings or units. This is an appropriate level of analysis for use at the planning submittal stage, but it may not provide an accurate picture of actual project energy demand because it does not factor project specifics such as building design.

Therefore, the applicant is advised (but not required) to run a more comprehensive energy simulation once project-specific details are known: basic building design, square-footage, building envelope, lighting design (at least rudimentary), and the mechanical system (at least minimally zoned). Some of the energy simulation programs that are appropriate for this level of analysis include: DOE 2.2, Trace 700, and Energy Pro.

The U.S. DOE maintains a list of energy simulation programs that are available.

http://apps1.eere.energy.gov/buildings/tools_directory/subjects.cfm/pagename=subjects/pagename_menu=whole_building_analysis/pagename_submenu=energy_simulation

The applicant may then work with City staff to revise the estimate and make a final determination regarding the size of the PV system that is required.

Substitutions: Projects may substitute a quantity of energy efficiency for renewable energy, as long as the substituted GHG reduction does not “double count” GHG reductions already taken by the CAP. In other words, substitutions must reduce GHG emissions from the project beyond what is already accounted for in the CAP (to avoid double-counting).

- Additional mitigation may include equivalent or better GHG reduction from individual measures or a combination of:
- Exceeding energy efficiency standards of Title 24, part 6 of the California Building Code by 15% or better using 2008 T24 standards as a baseline. (Please note that due to more rigorous minimum energy efficiency standards, after January 1, 2014, residential projects will need to exceed the new minimum building code standards by 10% and commercial projects will need to exceed the new minimum building code by 5%).
- Other land use (e.g., additional amenities), transportation, bicycle, or pedestrian improvements that would reduce VMT not already accounted for in VMT models under Step 2.

7. Would the project comply with minimum CALGreen Tier I water efficiency standards? (CAP Action: 5.1.1)

The [California Green Building Standards Code \(CALGreen\)](#) includes mandatory green building measures, as well as voluntary measures that local jurisdictions may choose to adopt to achieve higher performance tiers, at either Tier 1 or Tier 2 compliance levels. Sacramento has adopted Tier 1 Water Efficiency Standards to be required on or after January 1, 2014. Currently, in order to meet the Tier 1 Water Efficiency Standards, buildings are required to implement all mandatory water efficiency and conservation measures as well as certain Tier 1 specific measures that exceed minimum mandatory measures (e.g. 30% increase in indoor water efficiency). Specific Tier 1 provisions can be found in the CALGreen Code at <http://www.bsc.ca.gov/Home/CALGreen.aspx>.

The City recognizes that project construction details are often not known at the environmental review stage, and it may be premature for a project proponent to identify compliance with precise requirements of CALGreen. A condition of approval requiring the project to comply with minimum CALGreen Tier 1 water efficiency and conservation standards is sufficient to demonstrate consistency with this criterion.

Planning approval of your project will include the following condition:

Project must meet CALGreen Tier 1 water efficiency and conservation standards. Copies of the appropriate CALGreen checklist (see FAQ) shall be included on the full-size sheets for building plan check submittals.

Note: Requirements from this checklist should be incorporated into the conditions of approval, and shown on the full-size plans submitted for building plan check.

ATTACHMENT F
TRAFFIC ASSESSMENT MEMO

To: Judith Matsui-Drury, Senior Engineer
From: Aelita Milatzo, Assistant Engineer
Subject: S Street Townhomes (P17 -024) – Traffic Assessment
Date: 06-13-2017

This memorandum provides a comparison of how the proposed project's trip generation compares to the trip generation estimate prepared in the Transportation Impact Study for previously approved Stockton Boulevard/T Street Mixed-Use project (P14-042). The S Street Townhomes project is located on a portion of Stockton Boulevard/T Street Mixed-Use project site.

Trip Generation Estimate from Stockton Boulevard/T Street Mixed-Use Project Transportation Impact Study

Stockton Boulevard/T Street Mixed-Use Project transportation impact study was prepared by Fehr & Peers (February 25, 2015). The approved project includes 214 apartment units, 24 single-family dwelling units, and 6,000 square feet of retail.



Figure 2

Project Site Plan



Table 1 shows the trip generation estimates used in the transportation impact study for the approved project (P14-042).

TABLE 1 APPROVED PROJECT TRIP GENERATION (FROM TIS FOR P14-042)									
Land Use	Quantity	ITE Land Use Code	Trips ¹						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Single-Family Housing	24 du's	210	283	8	21	29	20	11	31
Mid-Rise Apartments	214 du's	223	1,068	18	66	84	63	39	102
Retail	6 ksf	820	256	4	2	6	11	11	22
Gross Trips			1,607	30	89	119	94	61	155
Internal Trips			-74	-3	-3	-6	-5	-5	-10
Pass-by Trips (to Retail)			-38	-1	-1	-2	-2	-2	-4
External Walk & Bike Trips			-240	-4	-13	-17	-11	-8	-19
External Transit Trips			-77	-3	-8	-11	-8	-5	-13
New Vehicle Trips			1,178	19	64	83	68	41	109
Notes:									
¹ Trip data from Tables 4 & 5 in Stockton Boulevard/T Street Mixed-Use project TIS (Fehr & Peers, February 25, 2015).									
ksf = thousand square feet.									

Trip Generation Estimate Based on Proposed Land Uses (P17-024)

Per the information provided in the project application (P17-024), the proposed project would consist of 41 townhomes. The townhomes are located on the same portion of Stockton Boulevard/T Street Mixed-Use project site where 24 single family residences would be built with the original project. The trip generation estimate for the proposed project is shown as a component of Stockton Boulevard/T Street Mixed-Use project replacing 24 single family residences with 41 townhomes.

Table 2 shows the trip generation of the proposed project based on trip rates published in *Trip Generation, 9th Edition* (Institute of Transportation Engineers, 2012). After accounting for internal, pass-by, and external walk/bike/transit trips, the project is expected to generate approximately 1,177 new daily vehicle trips with 80 trips during the AM peak hour and 108 trips during the PM peak hour. This includes trips generated by the retail and apartment components of the entire project site.

**TABLE 2
PROPOSED PROJECT TRIP GENERATION
(P17-024 & APARTMENTS/RETAIL TO THE WEST)**

Land Use	Quantity	ITE Land Use Code	Trips ¹						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Townhomes	41 du	230	296	4	21	25	19	10	29
Mid-Rise Apartments	214 du's	223	1,068	18	66	84	63	39	102
Retail	6 ksf	820	256	4	2	6	11	11	22
Gross Trips			1,620	26	89	115	93	60	153
Internal Trips			-81	-3	-3	-6	-4	-4	-8
Pass-by Trips (to Retail)			-38	-1	-1	-2	-2	-2	-4
External Walk & Bike Trips			-243	-4	-13	-17	-11	-9	-20
External Transit Trips			-81	-3	-7	-10	-8	-5	-13
New Vehicle Trips			1,177	15	65	80	68	40	108

Notes:
¹ Trip data from Tables 4 & 5 in Stockton Boulevard/T Street Mixed-Use project TIS (Fehr & Peers, February 25, 2015) and Trip rates from *Trip Generation* (ITE, 2012).
ksf = thousand square feet.

Trip Generation Comparison

Table 3 compares the number of new vehicle trips the project would generate per the transportation impact study, and based on the proposed land uses.

**TABLE 3
TRIP GENERATION COMPARISON**

Scenario	Daily	AM Peak Hour	PM Peak Hour
TIS	1,178	83	109
Proposed Land Uses	1,177	80	108
<i>Difference</i>	<i>-1</i>	<i>-3</i>	<i>-1</i>

Notes: These values include both inbound and outbound trips.

Table 3 shows that the proposed land uses result in a net decrease of new trips when compared to the trip generation estimates presented in the Transportation Impact Study for the approved project P14-042. Per trip data in Table 3, the proposed land uses generate 1

less daily trip, 3 less trips in the AM peak hour, and 1 less trip in the PM peak hour when compared to the trip estimates in the traffic study.

Impacts and Mitigation Measures

The traffic impacts in Stockton Boulevard/T Street Mixed-Use Project transportation impact study were identified for the entire project site. The proposed project is not anticipated to have any additional impacts or change the significance of any of the identified impacts. The project is subject to the mitigation measures identified in the traffic study.

The impacts and mitigation measures are described below:

Impact TR-1: The addition of project traffic would cause adverse queuing effects and safety concerns in the southbound left-turn lane at the Stockton Boulevard/T Street intersection.

Mitigation Measure TR-1

The project applicant shall work with the City of Sacramento to modify the traffic signal at the Stockton Boulevard/T Street intersection to operate the northbound and southbound left-turns with protected phasing.

Impact TR-2: Construction of the proposed project could potentially cause a temporary but prolonged impact due to construction-related travel activities.

Mitigation TR-2

The project applicant shall develop a Construction Traffic Management Plan to the satisfaction of the City's Transportation Department. The plan would include items such as: the number and size of trucks per day, expected arrival/departure times, truck circulation patterns, location of truck staging areas, location/amount of employee parking, and the proposed use of traffic control/partial street closures on public streets. The overall goal of the Construction Traffic Management Plan would be to minimize traffic impacts to public streets and maintain a high level of safety for all roadway users. The Construction TMP shall adhere to the following performance standards throughout project construction:

- 1) Delivery trucks do not idle/stage on Stockton Boulevard and T Street.*
- 2) With the exception of trucks coming from local destinations via 39th Street, all delivery trucks shall use Stockton Boulevard to access the site.*

- 3) *Any lane closures on northbound Stockton Boulevard during the demolition of the existing office building or proposed project construction are limited to a single lane during off-peak hours (9:00 AM to 2:30 PM).*
- 4) *Roadways, sidewalks, crosswalks, and bicycle facilities shall be maintained clear of debris (e.g., rocks) that could otherwise impede travel and impact public safety.*

Conclusions and Recommendations

- 1) Compared to the project (P14-042) analyzed in the traffic study, the proposed project (P17-024) will generate less trips, therefore, a new traffic analysis for the project is not required.
- 2) The project is subject to all transportation mitigation measures identified in TIS for Stockton Boulevard/T Street Mixed-Use project. The mitigation measures TR-1 and TR-2 shall be implemented with the Phase 1 of Stockton Boulevard/T Street Mixed-Use project. The S Street Townhomes (P17-024) project is considered Phase 1 of the total project and shall implement all mitigation measures.
- 3) The proposed project site plan is subject to entitlements review by the Department of Public Works.

ATTACHMENT G
STOCKTON AND T STREET NOISE ANALYSIS ADDENDUM LETTER



July 7, 2018

Mr. Rod Stinson
Raney Planning & Management
1501 Sports Drive
Sacramento, CA 95834

Subject: Stockton & T Street Noise Analysis Addendum

Dear Mr. Stinson:

The intent of this letter is to provide an addendum to the noise analysis we previously submitted for the Stockton and T Street residential project in the City of Sacramento.

Previous Analyses and Recommendations

2014 Original Project Description, Report and Recommendations

The original report (*Environmental Noise Assessment, Stockton and T Street Project - Job # 2014-197, Prepared for: Raney Planning & Management Inc., Prepared by: j.c. brennan & associates Inc., December 22 2014*) had the following project description:

The proposed project would remove the existing 120,000-square foot (sf) vacant office building (formerly AT&T) and associated parking lot and subdivide the property for construction of a mixed-use residential and commercial development. The proposed project includes a 214-unit, four-story, multi-family housing complex with ground floor commercial and parking garage, on the corner of Stockton Boulevard and T Street. In addition, the proposed project includes construction of approximately 24 single-family homes between S Street and U.S. Highway 50 (US 50).

Traffic Noise Levels at the Project Site

The results of the previous analysis with regards to predicted noise levels at the project site had the following conclusions and recommendations:

The data indicate that noise barriers 8-feet in height would be sufficient to reduce exterior noise levels to less than 70 dB L_{dn} at sensitive receptors located adjacent to US-50.

It should be noted that this analysis assumes that a noise barrier for the single-family residential portion of the project would be constructed on the US-50 berm at the roadway edge, within the Caltrans right-of-way. It was our understanding that Caltrans was reviewing plans to install a 10-foot tall barrier at this location, associated with a high-occupancy vehicle lane project.

For the multi-family residential project, this analysis assumes that a rooftop screen wall would be constructed to a minimum height of 8-feet relative to the pool deck. This wall may consist of glass, metal or wood-framed stucco construction, or any combination of these materials. It is our understanding that the project currently includes this wall as a design feature of the project.

July 2017 Revised Project Description, Project Report and Recommendations

The revised project description in July 2017 was as follows:

The proposed project would consist of 41 townhomes. The townhomes are located on the same portion of Stockton Boulevard and T Street project site where 24 single family residences would be built with the original project. The proposed commercial and apartments would remain as proposed in the original project.

Figure 1 of this letter/report shows the July 2017 revised configuration. It is our understanding that the project applicant proposed to conduct the analysis in phases. The first phase includes the construction of the townhomes excluding the single buildings on the east and west sides of the project site. These buildings did not have shielding at the outdoor activity areas. These building will not have shielding at the outdoor activity areas due to the delayed construction of the sound wall or a Jersey Barrier along U.S. Highway 50. The remaining townhome buildings will have dedicated common outdoor areas / courtyards which are shielded by two story building facades. When the sound wall or Jersey Barrier is constructed by Caltrans along U.S. Highway 50, then the second phase would include the end townhome units. The remainder of the site which includes the apartments and commercial will be part of Phase 1.

Previous analysis indicated that the proposed Caltrans barrier would reduce traffic noise levels to within the 70 dB Ldn standard. Additional analysis has indicated that a Jersey Barrier (or K Rail) between 2-feet and 3-feet in height located at the U.S. Highway 50 shoulder would also provide sufficient shielding of traffic noise to comply with 70 dB Ldn exterior noise level standard Appendix B shows the barrier calculation and the barrier profile. When the barrier or Jersey Barrier is constructed along U.S. Highway 50, then the second phase will include the end townhome units. The remainder of the site which includes the apartments and commercial will be part of Phase 1.

Traffic Noise Levels at the Project Site

Based upon the FHWA traffic noise barrier calculations, the building facades for the first phase of construction will provide enough shielding to reduce US Highway 50 traffic noise levels to less than 60 dB Ldn at the interior courtyards / outdoor areas.

June 2018 Updated Analysis and Recommendations

This portion of the report provides an update the analysis, so as to comply with the appropriate noise level criteria at the end units (Buildings 1 and 6), as shown on Figure 2 of this report. Figure 2 is the most recent site design.

The outdoor activity area for Building 1 (the east side building) is located in the front yard, and adjacent to 39th Street. As a means of complying with the 70 dB Ldn standard, a K Rail of a height of 2-1/2 to 3-feet in height should be constructed a total of 100-feet to the west of the 39th Street overpass. The K Rail should continue to the east across the overpass (approximately 100-feet) to the east, and continue for an additional 100-feet to the east, for a total length of 300-feet. Figure 3 shows the location of the K Rail.

Based upon Figures 2 and 4, Building 6 (the west side building) has proposed to provide an outdoor activity area along the west portion of the building. The proposed construction would include a two-story building, as shown on Figure 4. Figure 4 also shows that the two-story building would need to extend to the west along the north edge of the outdoor activity area. In addition, a barrier analysis was completed to determine that the west edge of the outdoor area would need to have a barrier 12-feet in height to reduce exterior noise levels to 70 dB Ldn. This is also shown on Figure 4.

If the City staff have questions of comments, please contact me at 530-823-0960, or jbrennan@jcbrennanassoc.com.

Respectfully submitted,

j.c. brennan & associates, Inc.



Jim Brennan
President
Member: Institute of Noise Control Engineering
File: 2017-128 - Addendum Letter - July 2018

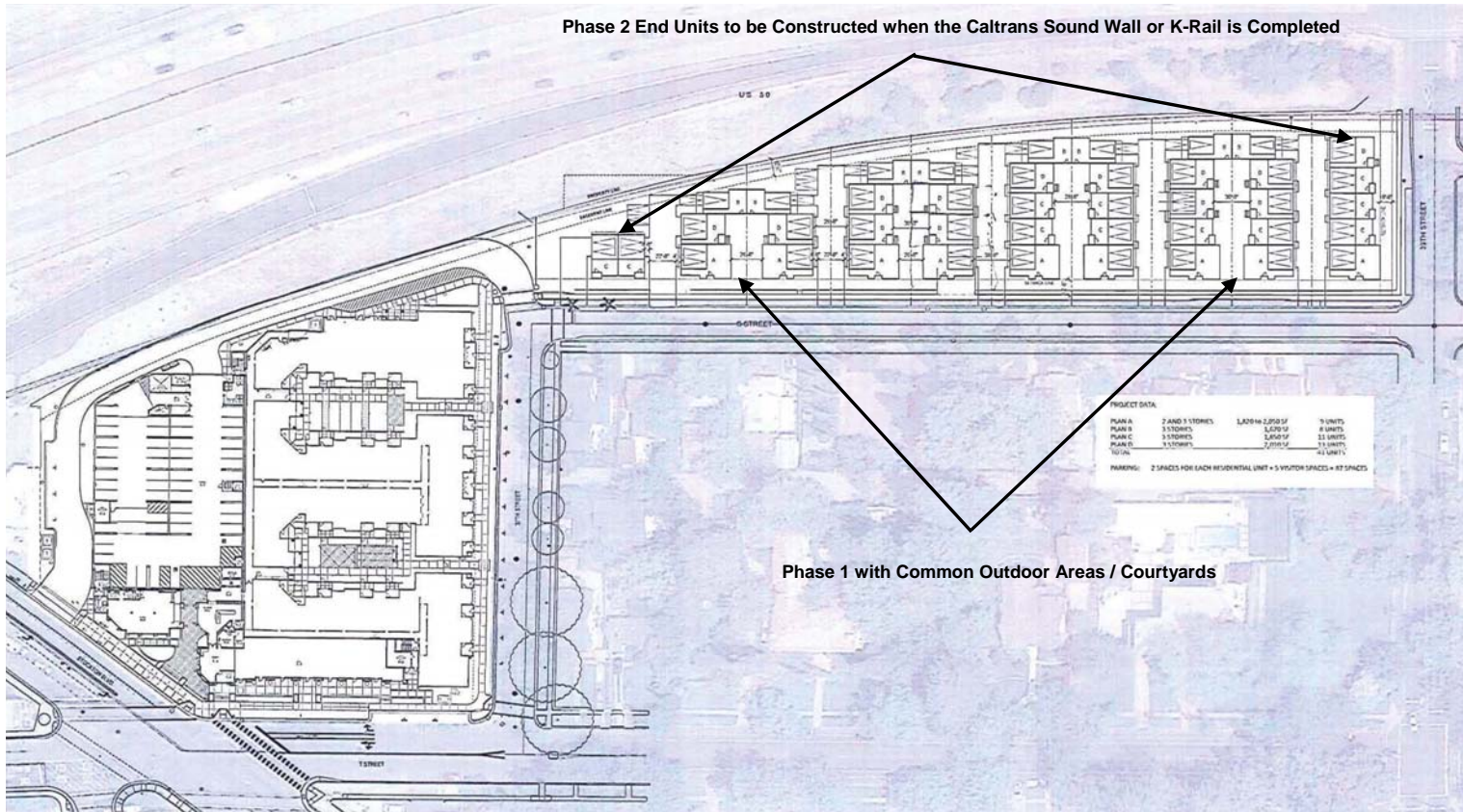
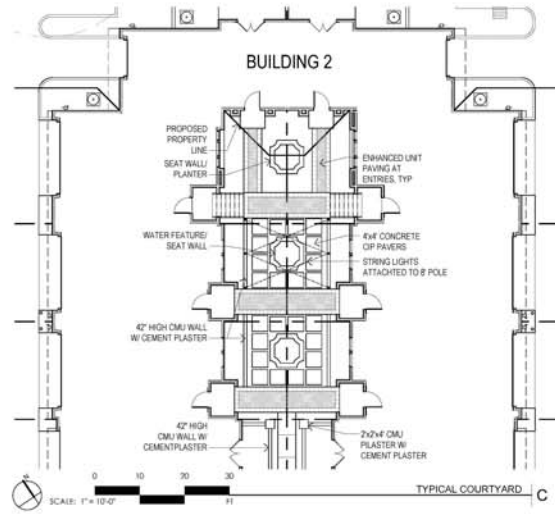


Figure 1
2017 Revised Site Plan



SITE DATA

SITE AREA	± 2.08 ACRES (WITH PARCEL A AT .15 ACRES THE SITE IS 2.23 ACRES)			PARKING PROVIDED GARAGE SPACES	74
				DRIVE-BLE SPACES	12
NUMBER OF UNITS	UNIT TYPE	SF	TOTAL	PERCENTAGE	TOTAL SPACES PROVIDED
PLAN 1	3 BQD 5 BA	1,608	8	(37%)	86
PLAN 2	3 BQD 5 BA	1,823	10	(44%)	11
PLAN 3	3 BQD 5 BA	1,916	13	(57%)	10
PLAN 4	3 BQD 5 BA + LOFT	1,966	4	(15%)	
PLAN 5	3 BQD 5 BA + BONUS ROOM	2,108	6	(14%)	
TOTAL			41	(100%)	TOTAL PARKING PROPOSED
DENSITY	± 19.7 UNITS/ACRE				113

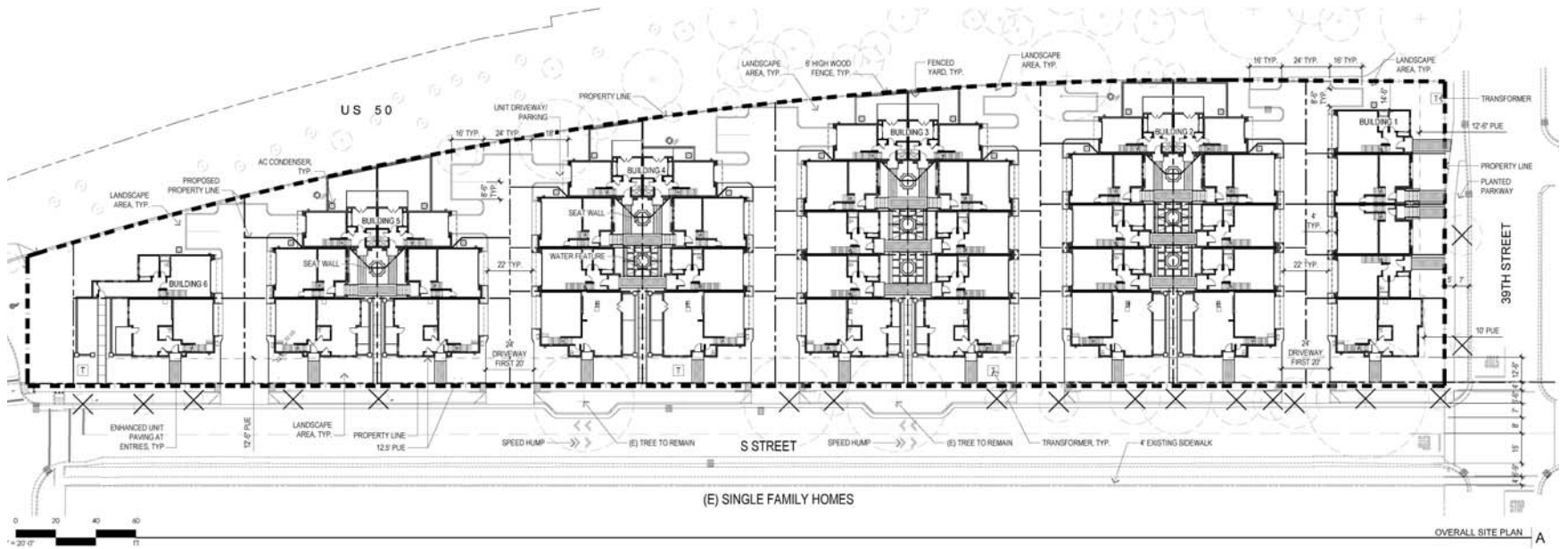
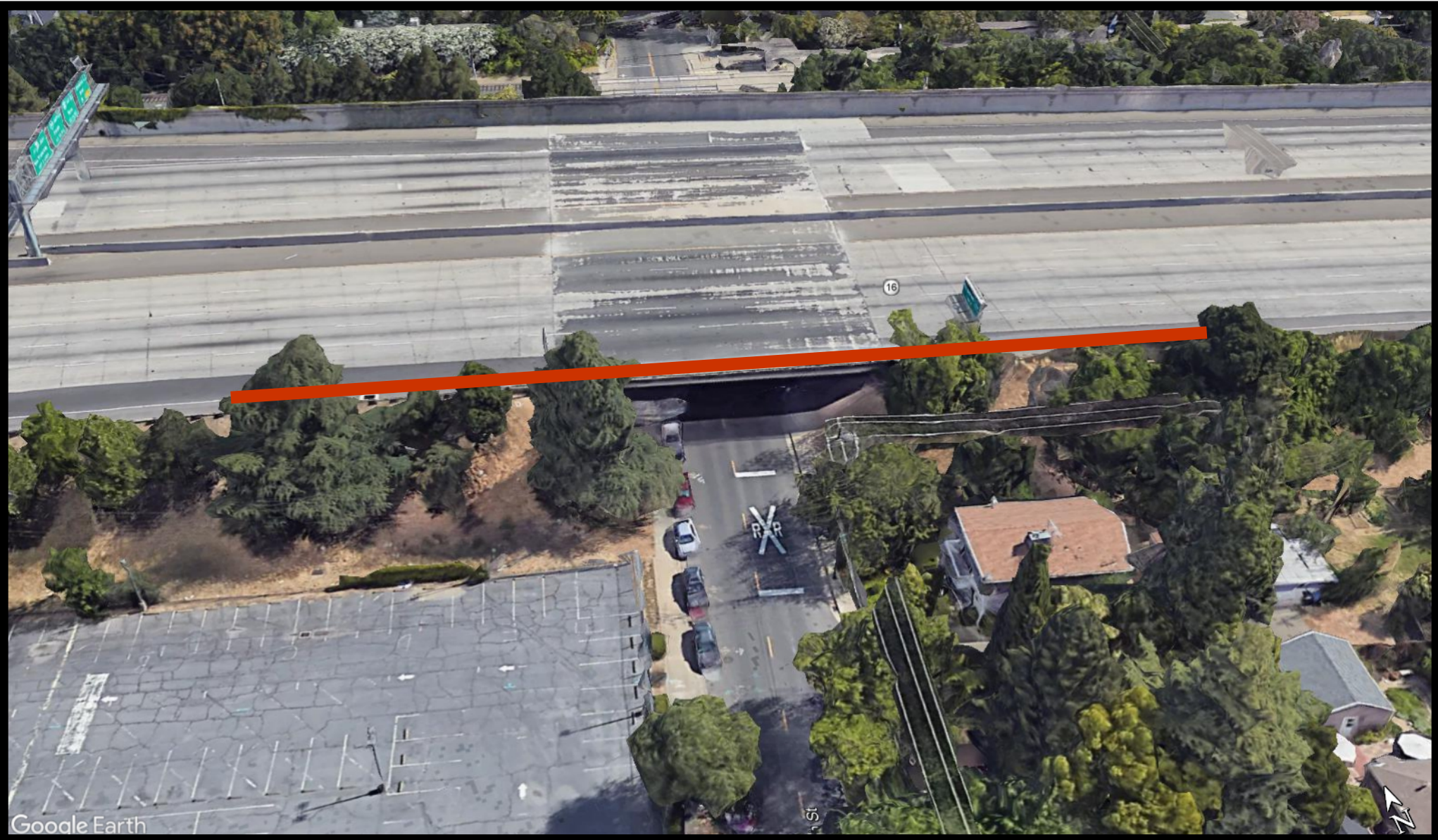


Figure 2
Revised 2018 Site Plan

j.c. brennan & associates
consultants in acoustics



Location of 3-foot K Rail

Figure 3
Location of K Rail

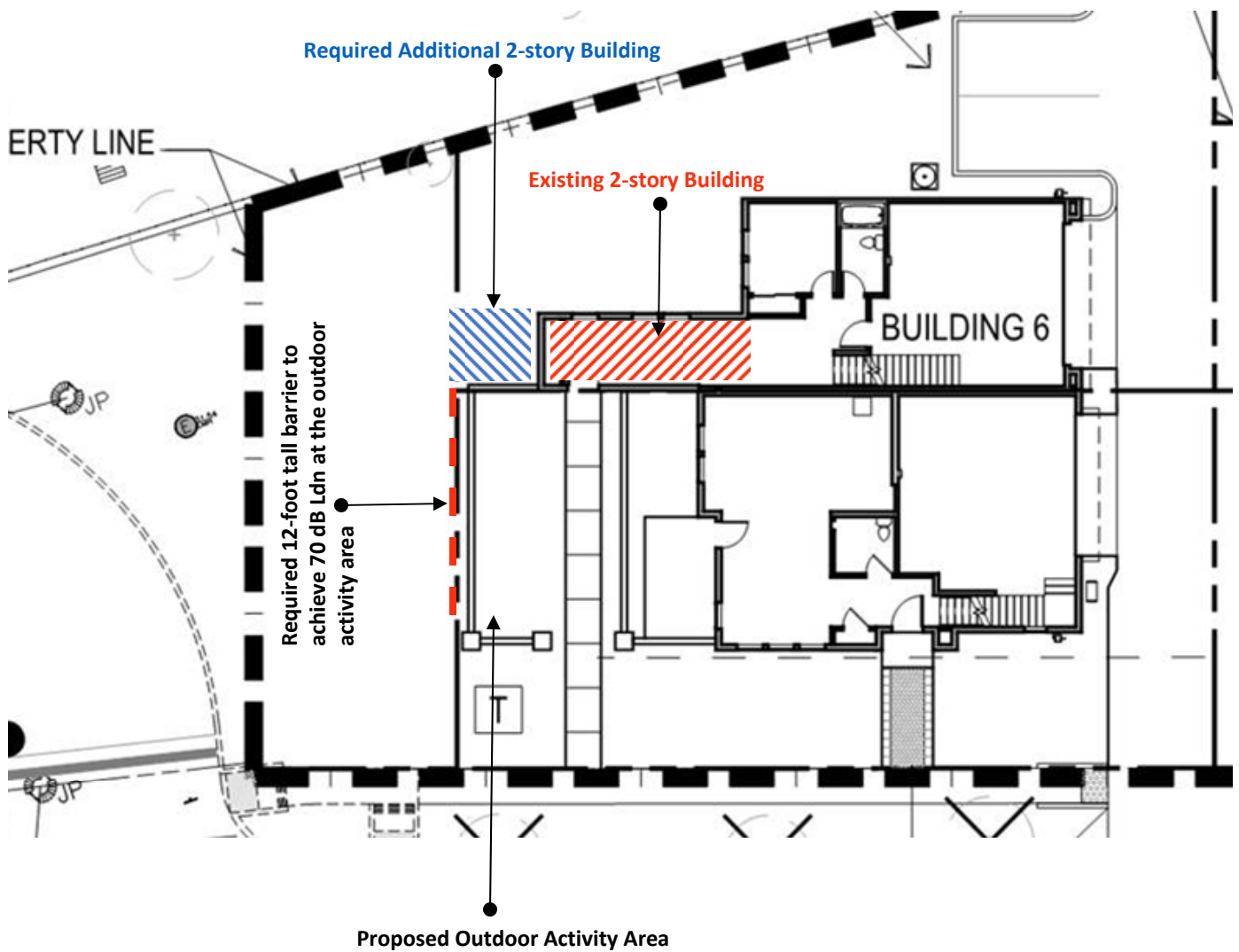


Figure 4
Building 6 Detail

Appendix A

Acoustical Terminology

Acoustics	The science of sound.
Ambient Noise	The distinctive acoustical characteristics of a given space consisting of all noise sources audible at that location. In many cases, the term ambient is used to describe an existing or pre-project condition such as the setting in an environmental noise study.
Attenuation	The reduction of an acoustic signal.
A-Weighting	A frequency-response adjustment of a sound level meter that conditions the output signal to approximate human response.
Decibel or dB	Fundamental unit of sound, A Bell is defined as the logarithm of the ratio of the sound pressure squared over the reference pressure squared. A Decibel is one-tenth of a Bell.
CNEL	Community Noise Equivalent Level. Defined as the 24-hour average noise level with noise occurring during evening hours (7 - 10 p.m.) weighted by a factor of three and nighttime hours weighted by a factor of 10 prior to averaging.
Frequency	The measure of the rapidity of alterations of a periodic signal, expressed in cycles per second or hertz (Hz).
L_{dn}	Day/Night Average Sound Level. Similar to CNEL but with no evening weighting.
L_{eq}	Equivalent or energy-averaged sound level.
L_{max}	The highest root-mean-square (RMS) sound level measured over a given period of time.
L_(n)	The sound level exceeded a described percentile over a measurement period. For instance, an hourly L ₅₀ is the sound level exceeded 50% of the time during the one hour period.
Loudness	A subjective term for the sensation of the magnitude of sound.
Noise	Unwanted sound.
NRC	Noise Reduction Coefficient. NRC is a single-number rating of the sound-absorption of a material equal to the arithmetic mean of the sound-absorption coefficients in the 250, 500, 1000, and 2,000 Hz octave frequency bands rounded to the nearest multiple of 0.05. It is a representation of the amount of sound energy absorbed upon striking a particular surface. An NRC of 0 indicates perfect reflection; an NRC of 1 indicates perfect absorption.
Peak Noise	The level corresponding to the highest (not RMS) sound pressure measured over a given period of time. This term is often confused with the Maximum level, which is the highest RMS level.
RT₆₀	The time it takes reverberant sound to decay by 60 dB once the source has been removed.
Sabin	The unit of sound absorption. One square foot of material absorbing 100% of incident sound has an absorption of 1 Sabin.
SEL	Sound Exposure Level. SEL is a rating, in decibels, of a discrete event, such as an aircraft flyover or train passby, that compresses the total sound energy into a one-second event.
STC	Sound Transmission Class. STC is an integer rating of how well a building partition attenuates airborne sound. It is widely used to rate interior partitions, ceilings/floors, doors, windows and exterior wall configurations.
Threshold of Hearing	The lowest sound that can be perceived by the human auditory system, generally considered to be 0 dB for persons with perfect hearing.
Threshold of Pain	Approximately 120 dB above the threshold of hearing.
Impulsive	Sound of short duration, usually less than one second, with an abrupt onset and rapid decay.
Simple Tone	Any sound which can be judged as audible as a single pitch or set of single pitches.

Appendix B

FHWA Traffic Noise Prediction Model (FHWA-RD-77-108)

Noise Barrier Effectiveness Prediction Worksheet

Project Information:

Job Number: 2014-198
 Project Name: T Street Residential
 Roadway Name: US 50
 Location(s): SF Backyards

Noise Level Data:

Year: Cumulative - Sac County GP
 Auto L_{dn}, dB: 79
 Medium Truck L_{dn}, dB: 69
 Heavy Truck L_{dn}, dB: 72

Site Geometry:

Receiver Description: SF Backyards
 Centerline to Barrier Distance (C₁): 120
 Barrier to Receiver Distance (C₂): 50
 Automobile Elevation: 15
 Medium Truck Elevation: 17
 Heavy Truck Elevation: 23
 Pad/Ground Elevation at Receiver: 0
 Receiver Elevation¹: 5
 Base of Barrier Elevation: 15
 Starting Barrier Height 2

Barrier Effectiveness:

Top of Barrier Elevation (ft)	Barrier Height ² (ft)	----- L _{dn} , dB -----				Barrier Breaks Line of Sight to...		
		Autos	Medium Trucks	Heavy Trucks	Total	Autos?	Medium Trucks?	Heavy Trucks?
17	2	69	59	63	70	Yes	Yes	Yes
18	3	68	58	63	70	Yes	Yes	Yes
19	4	68	58	62	69	Yes	Yes	Yes
20	5	67	57	61	69	Yes	Yes	Yes
21	6	67	56	61	68	Yes	Yes	Yes
22	7	66	56	60	67	Yes	Yes	Yes
23	8	66	55	60	67	Yes	Yes	Yes
24	9	65	55	59	67	Yes	Yes	Yes
25	10	65	55	59	66	Yes	Yes	Yes

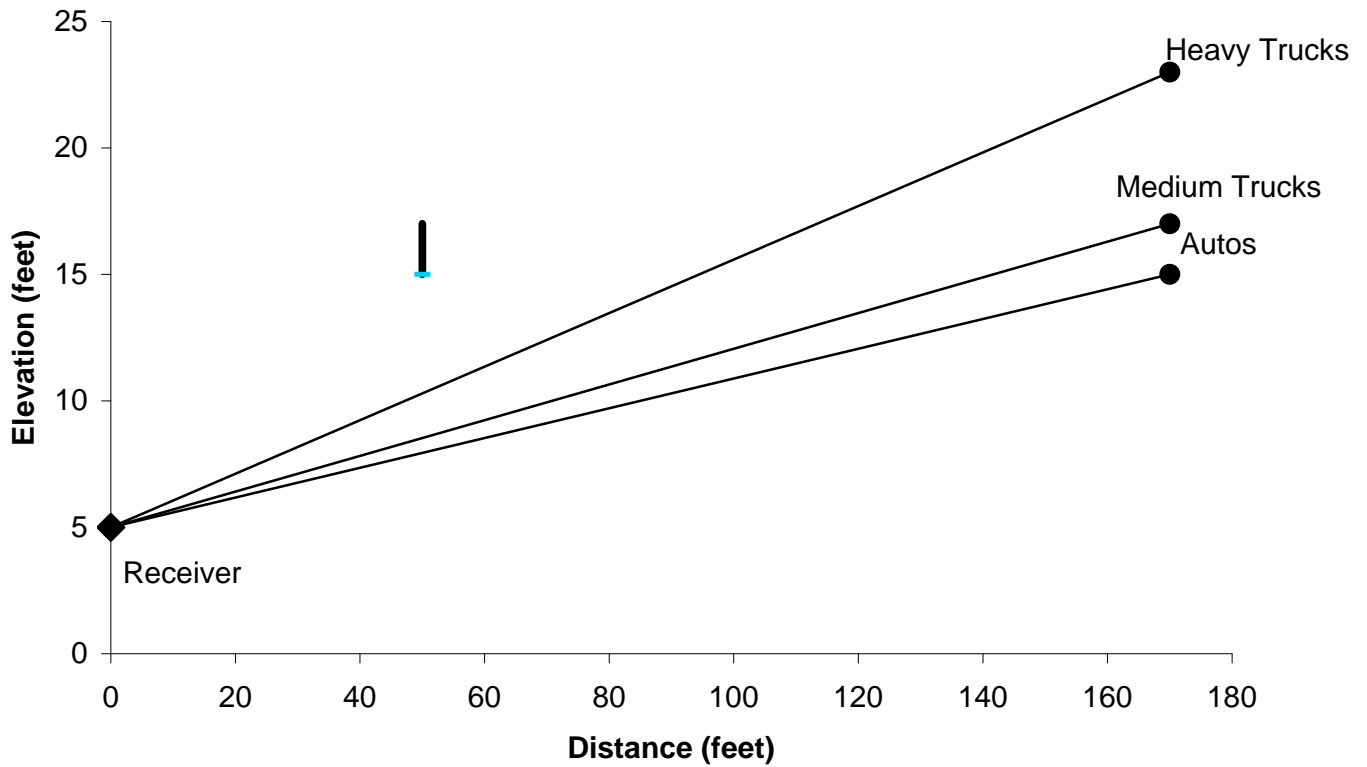
Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s)



**Appendix B
Barrier Insertion Graphic**

Job Number: 2014-198
 Project Name: T Street Residential
 Roadway Name: US 50
 Location(s): SF Backyards

Barrier



Centerline to Barrier Distance (C_1):	120
Barrier to Receiver Distance (C_2):	50
Automobile Elevation:	15
Medium Truck Elevation:	17
Heavy Truck Elevation:	23
Pad/Ground Elevation at Receiver:	0
Receiver Elevation ¹ :	5
Base of Barrier Elevation:	15
Barrier Height ² :	2

Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s)

Appendix B

FHWA Traffic Noise Prediction Model (FHWA-RD-77-108)

Noise Barrier Effectiveness Prediction Worksheet

Project Information:

Job Number: 2014-198
 Project Name: T Street Residential
 Roadway Name: US 50
 Location(s): Lot 6

Noise Level Data:

Year: Cumulative - Sac County GP
 Auto L_{dn}, dB: 79
 Medium Truck L_{dn}, dB: 69
 Heavy Truck L_{dn}, dB: 72

Site Geometry:

Receiver Description: Lot 6
 Centerline to Barrier Distance (C₁): 160
 Barrier to Receiver Distance (C₂): 10
 Automobile Elevation: 15
 Medium Truck Elevation: 17
 Heavy Truck Elevation: 23
 Pad/Ground Elevation at Receiver: 0
 Receiver Elevation¹: 5
 Base of Barrier Elevation: 0
 Starting Barrier Height 8

Barrier Effectiveness:

Top of Barrier Elevation (ft)	Barrier Height ² (ft)	----- L _{dn} , dB -----				Barrier Breaks Line of Sight to...		
		Autos	Medium Trucks	Heavy Trucks	Total	Autos?	Medium Trucks?	Heavy Trucks?
8	8	72	61	65	73	Yes	Yes	Yes
9	9	71	60	64	72	Yes	Yes	Yes
10	10	69	59	63	70	Yes	Yes	Yes
11	11	68	58	62	70	Yes	Yes	Yes
12	12	67	57	61	69	Yes	Yes	Yes
13	13	66	56	60	68	Yes	Yes	Yes
14	14	66	55	59	67	Yes	Yes	Yes
15	15	65	55	58	66	Yes	Yes	Yes
16	16	65	54	58	66	Yes	Yes	Yes

Notes: 1. Standard receiver elevation is five feet above grade/pad elevations at the receiver location(s)

