

Air Quality and Greenhouse Gas Impact Analysis

Sutter Roseville ED-Critical Care Expansion

Prepared for:

Sutter Health Facility & Property Services

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Introduction

This Air Quality and Greenhouse Gas Impact Analysis identifies and analyzes the potential environmental impacts from the Sutter Roseville ED-Critical Care Expansion Project (proposed project) related to air quality and greenhouse gas (GHG) emissions. The information and analysis in this document is organized in accordance with the checklist in Appendix G of the California Environmental Quality Act (CEQA) Guidelines. All modeling results are included as Appendix A of this document.

Project Summary

The project site is located at 1 Medical Plaza Drive, in the City of Roseville, California (see Figure 1). The project site is within the Sutter Roseville Medical Campus, which is comprised of the Main Hospital, medical office buildings and rehabilitation facilities, surface parking lots and two parking garages. A total of 1.1 million sf of medical uses are approved and permitted under the campus Master Plan. Currently, the campus includes 831,156 sf of medical building space. The proposed project would include the expansion of the existing Main Hospital structure at the Sutter Roseville Medical Center (see Figure 2). The building square footage of the proposed expansion would be approximately 92,300 square feet (sf) distributed between three-stories. Thus, the proposed project would increase the total medical space square footage to 923,456 sf, which would be within the 1.1 million sf maximum for the campus. The site currently consists of an existing parking lot adjacent to the Main Hospital structure. Access to the proposed structure would be provided from Medical Plaza Drive by way of the existing access road to the emergency department. A new, covered emergency department drop-off area would be constructed on the northern side of the expanded building. The proposed structure would be used for expanded emergency department operations including intensive care space, and other supporting uses. During utility outages, operation of the proposed structure would require the use of an emergency diesel generator on-site to provide continuous power, as required by the California Building Code.

Buildout of the project site would be considered infill development, as the project site is surrounded by the existing Sutter Roseville Medical Center. Land uses outside of the Sutter Roseville Medical center include residential developments to the northeast, commercial and further medical use developments to the east, commercial developments to the south and southwest, and Interstate 80 (I-80) to the west.

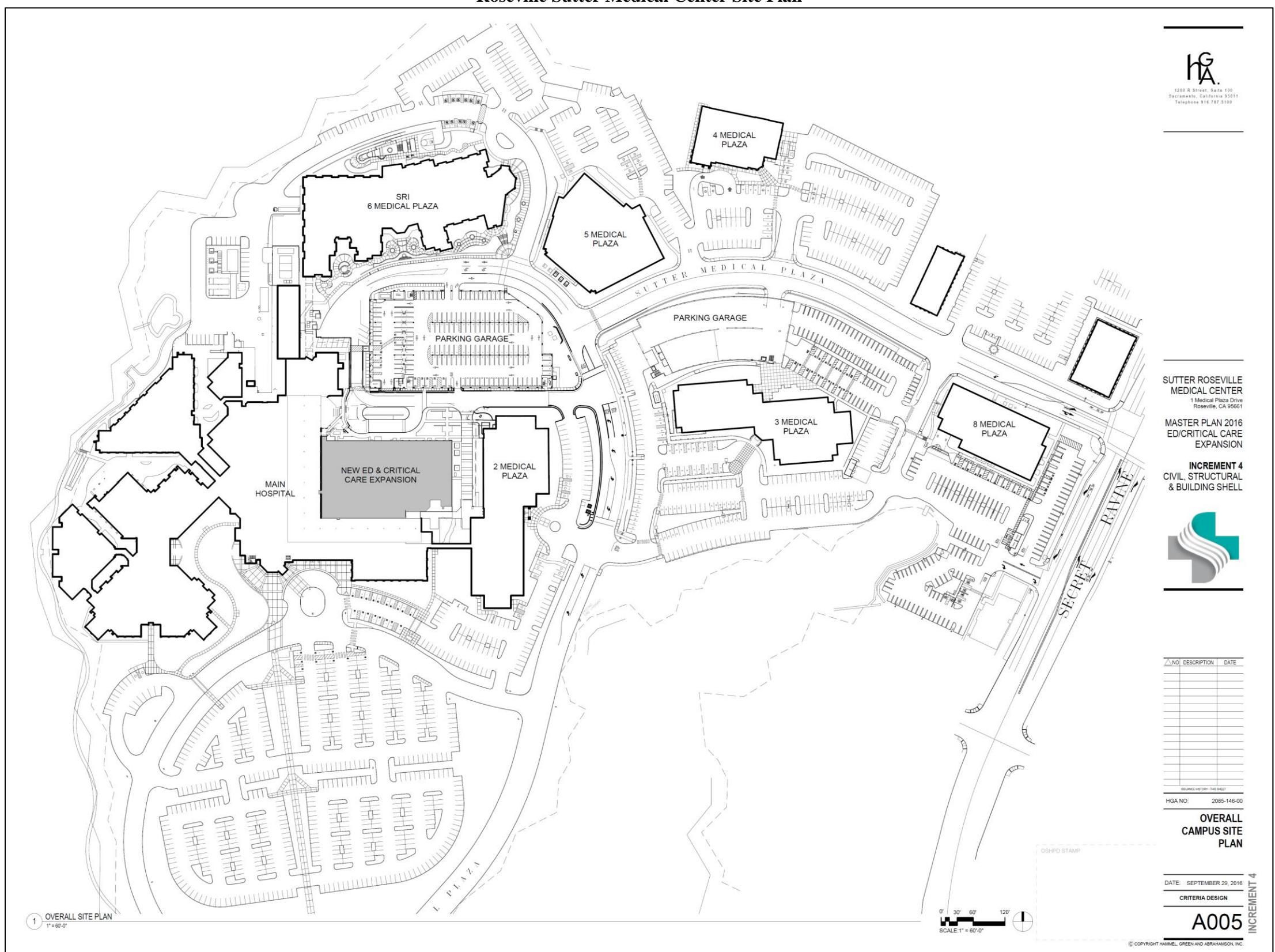
Construction of the proposed project has been assumed to commence in June of 2017 and would be fully operational by December of 2020. Construction would require demolition of the existing parking lot area, and subsequent export of demolition material. Site preparation would involve the export of approximately 40 cubic yards (CY) of material, and grading would involve export of 630 CY of material. The total duration of construction-related activities is anticipated to last 3.5 years. Due to the project location, the following site features are inherent in the proposed project design:

- Within walking distance to public transportation;
- Existing network of pedestrian and bicycle connections;
- Near major transportation routes (i.e., I-80 and Highway 65); and
- Near existing residential and commercial developments.

Figure 1
Regional Project Location



Figure 2
Roseville Sutter Medical Center Site Plan



Sources

1. Alameda County Superior Court. *California Building Industry Association v. Bay Area Air Quality Management District. A135335 and A136212.* Filed August 12, 2016.
2. California Air Pollution Control Officers Association. *Quantifying Greenhouse Gas Mitigation Measures.* August 2010.
3. California Air Resources Board. *Air Quality and Land Use Handbook: A Community Health Perspective.* April 2005.
4. California Air Resources Board. *Ambient Air Quality Standards.* Available at: <http://www.arb.ca.gov/research/aaqs/aaqs2.pdf>. May 04, 2016.
5. California Air Resources Board. *First Update to the Climate Change Scoping Plan.* May 15, 2014.
6. California Air Resources Board. *Final Supplement to the AB 32 Scoping Plan Functional Equivalent Document.* August 19, 2011.
7. California Department of Transportation. *Transportation Project-Level Carbon Monoxide Protocol.* December 1997.
8. ENVIRON International Corporation and the California Air Districts. *California Emissions Estimator Model User's Guide Version 2016.3.1.* September 2016.
9. Fehr and Peers. *Draft Transportation Impact Study for Sutter Roseville Medical Center Expansion.* February 6, 2017.
10. Placer County Air Pollution Control District. *CEQA Air Quality Handbook.* October 11, 2012.
11. Placer County Air Pollution Control District. Personal communication with Angel Green, Associate Planner. September 21, 2015.
12. Placer County Air Pollution Control District. *Placer County Air Pollution Control District Policy. Review of Land Use Projects Under CEQA.* October 13, 2016.
13. Sacramento Metropolitan Air Quality Management District. *Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan (2013 SIP Revisions).* September 26, 2013.

III. AIR QUALITY. <i>Would the project:</i>	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
a. Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Discussion

a,b. The City of Roseville is located within the boundaries of the Sacramento Valley Air Basin (SVAB) and under the jurisdiction of the Placer County Air Pollution Control District (PCAPCD). The federal Clean Air Act (CAA) and the California Clean Air Act (CCAA) require that federal and State ambient air quality standards (AAQS) be established, respectively, for six common air pollutants, known as criteria pollutants. The criteria pollutants include particulate matter (PM), ground-level ozone, carbon monoxide (CO), sulfur oxides, nitrogen oxides (NOx), and lead. At the federal level, the SVAB area is designated as nonattainment for the 8-hour ozone and the 24-hour particulate matter 2.5 microns in diameter (PM_{2.5}) AAQS, and attainment or unclassified for all other federal criteria pollutant AAQS. At the State level, the SVAB area is designated as nonattainment for the 1-hour ozone, 8-hour ozone, particulate matter 10 microns in diameter (PM₁₀), and PM_{2.5} AAQS, and attainment or unclassified for all other State AAQS.

The CAA requires each state to prepare an air quality control plan referred to as a State Implementation Plan (SIP). The SIPs are modified periodically to reflect the latest emissions inventories, planning documents, and rules and regulations of the air basins, as reported by their jurisdictional agencies. Due to the nonattainment designations, PCAPCD, along with the other air districts in the SVAB region, periodically prepares and updates air quality plans that provide emission reduction strategies to achieve attainment of the NAAQS, including control strategies to reduce air pollutant emissions through regulations, incentive programs, public education, and partnerships with other agencies.

The current applicable air quality plan for the proposed project area is the *Sacramento Regional 8-Hour Ozone Attainment and Reasonable Further Progress Plan* (Ozone Attainment Plan), adopted September 26, 2013. The U.S. Environmental Protection Agency (USEPA) determined the motor vehicle emission budgets in the Plan to be adequate and

made such findings effective August 25, 2014. On January 9, 2015, the USEPA approved the 2013 Ozone Attainment Plan.

The 2013 Ozone Attainment Plan demonstrates how existing and new control strategies would provide the necessary future emission reductions to meet the CAA requirements, including the NAAQS. It should be noted that in addition to strengthening the 8-hour ozone NAAQS, the USEPA also strengthened the secondary 8-hour ozone NAAQS, making the secondary standard identical to the primary standard. The SVAB remains classified as a severe nonattainment area with an attainment deadline of 2027. On October 26, 2015, the USEPA released a final implementation rule for the revised NAAQS for ozone to address the requirements for reasonable further progress, modeling and attainment demonstrations, and reasonably available control measures (RACM) and reasonably available control technology (RACT). With the publication of the new NAAQS ozone rules, areas in nonattainment must update their ozone attainment plans and submit new plans by 2020/2021.

General conformity requirements of the regional air quality plan include whether a project would cause or contribute to new violations of any NAAQS, increase the frequency or severity of an existing violation of any NAAQS, or delay timely attainment of any NAAQS. In order to evaluate ozone and other criteria air pollutant emissions and support attainment goals for those pollutants that the area is designated nonattainment, the PCAPCD recommends significance thresholds for emissions of PM₁₀ and ozone precursors – reactive organic gases (ROG) and oxides of nitrogen (NO_x). On October 13, 2016, the PCAPCD adopted updated significance thresholds for the aforementioned pollutants.

The significance thresholds, expressed in pounds per day (lbs/day), listed in Table 1 are the PCAPCD's recommended thresholds of significance for use in the evaluation of air quality impacts associated with proposed development projects. The City of Roseville, as lead agency, utilizes the PCAPCD's recommended thresholds of significance for CEQA evaluation purposes. Thus, if the proposed project's emissions exceed the pollutant thresholds presented in Table 1, the project could have a significant effect on air quality, the attainment of federal and State AAQS, and could conflict with or obstruct implementation of the applicable air quality plan.

Table 1
PCAPCD Thresholds of Significance

Pollutant	Construction Threshold (lbs/day)	Operational Threshold (lbs/day)
ROG	82	55
NO _x	82	55
PM ₁₀	82	82

Source: Placer County Air Pollution Control District. Placer County Air Pollution Control District Policy. Review of Land Use Projects Under CEQA. October 13, 2016.

Implementation of the proposed project would contribute local emissions in the area during construction and operation of the proposed project. The proposed project's short-term construction-related and long-term operational emissions were estimated using the California Emissions Estimator Model (CalEEMod) version 2016.3.1 software (CalEEMod) – 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. 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 is available, such data should be input into the model. As such, the proposed project's modeling assumed the following:

- Construction was assumed to commence in June 2017 and would occur over an approximately 3.5-year period;
- Approximately 30,000 sf of parking lot area would be demolished, and the debris exported, during the demolition phase of the proposed project;
- Approximately 40 CY of material would be exported during site preparation;
- Approximately three acres would be disturbed, and 630 CY of material would be exported during grading of the site;
- An average daily trip rate of 13.22 was assumed, based on trip generation information provided by Fehr & Peers;
- Considering the inherent site features described in the project description, and location of the project site within the Sutter Roseville Medical Center, the total vehicle miles travelled (VMT) related to project operations would be 1,909 miles per day and approximately 696,785 miles per year, based on information provided by Fehr & Peers;
- Operations of the proposed project would involve use of an on-site generator to provide emergency power only; and
- Compliance with the 2016 California Building Energy Efficiency Standards Code.

The proposed project's estimated emissions associated with construction and operations are presented and discussed in further detail below.

Construction Emissions

During construction of the project, various types of equipment and vehicles would temporarily operate on the project site. Construction exhaust emissions would be generated from construction equipment, vegetation clearing and earth movement activities, construction worker commutes, and construction material hauling for the entire construction period. The aforementioned activities would involve the use of diesel- and gasoline-powered equipment that would generate emissions of criteria pollutants. Project construction activities also represent sources of fugitive dust, which includes PM emissions. As construction of the proposed project would generate air pollutant emissions intermittently within the site, and the vicinity of the site, until all construction has been completed, construction is a potential concern because the proposed project is in a non-attainment area for ozone and PM.

All projects under the jurisdiction of PCAPCD are required to comply with all applicable PCAPCD rules and regulations. Accordingly, the proposed project would be required to comply with all applicable PCAPCD rules and regulations for construction, which would be noted on City-approved construction plans. The applicable rules and regulations for construction would include, but would not be limited to, the following:

- Rule 202 related to visible emissions;
- Rule 217 related to cutback and emulsified asphalt paving materials;
- Rule 218 related to architectural coatings;
- Rule 228 related to fugitive dust;
- Rule 401 related to general permit requirements; and
- Regulation 3 related to open burning.

According to the CalEEMod results, which inherently accounts for applicable PCAPCD rules and regulations, the proposed project would result in maximum construction criteria air pollutant emissions as shown in Table 2. Assumptions used for the modeling are presented above.

Table 2 Maximum Unmitigated Construction-Related Emissions			
Pollutant	Project Emissions (lbs/day)	PCAPCD Significance Threshold (lbs/day)	Exceeds Threshold?
ROG	3.68	82.0	NO
NO _x	17.26	82.0	NO
PM ₁₀	1.80	82.0	NO

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

As shown in the table, the proposed project's maximum unmitigated construction-related emissions would be well below the applicable thresholds of significance. Therefore, construction activities associated with development of the proposed project would not substantially contribute to the PCAPCD's nonattainment status for ozone or PM. Accordingly, construction of the proposed project would not violate any AAQS or contribute to an existing or projected air quality violation or conflict with or obstruct implementation of the applicable air quality plan, and a less-than-significant impact would occur associated with construction.

Operational Emissions

Operational emissions of ROG, NO_x, and PM₁₀ would be generated by the proposed project from area, energy, and mobile sources. Area sources include architectural coating vapors, landscape maintenance equipment exhaust, and use of consumer products (e.g., deodorants, cleaning products, spray paint, etc.). Energy sources include electricity and natural gas consumption. Mobile-source emissions would result from the future employee and patron vehicle trips. When in use, the emergency generator would contribute emissions of NO_x, ROG, and PM₁₀.

As stated above, the proposed project would be required to comply with all applicable PCAPCD rules and regulations, including the following related to operations:

- Rule 205 related to nuisances;

- Rule 242 related to stationary internal combustion engines;
- Rule 246 related to water heaters; and
- Rule 502 related to review of new sources of emissions.

According to the CalEEMod results, the proposed project would result in maximum unmitigated operational emissions as shown in Table 3. Assumptions used for the modeling are presented above. The proposed project would include installation of an emergency generator; however, the emergency generator would only be operated in emergencies and for periodic testing and maintenance. Nevertheless, the worst-case scenario for emissions was considered to occur during full operation of the proposed hospital expansion on a day when the emergency generator was simultaneously in operation for testing. Therefore, Table 3 separates the emissions that would result from operation of the proposed project without the generator, operation of the generator alone, and total operational emissions including generator operations. As shown in the table, the proposed project's operational emissions would be well below the applicable thresholds of significance.

Table 3 Maximum Unmitigated Operational Emissions (lbs/day)			
	ROG	NO_x	PM₁₀
Proposed Project	4.33	11.66	1.8
Emergency Generator	1.81	8.09	0.27
Total Operational Emissions	6.14	19.75	2.07
PCAPCD Thresholds	55	55	82
Exceed Thresholds?	NO	NO	NO

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

In addition, it should be noted that a permit would be required to be obtained from the PCAPCD for operation of the emergency generator, which would ensure that the associated emissions are monitored and regulated.

Therefore, the proposed project would not substantially contribute to the PCAPCD's nonattainment status for ozone or PM during operations. Accordingly, operation of the proposed project would not violate any AAQS or contribute to an existing or projected air quality violation or conflict with or obstruct implementation of the applicable air quality plan, and a less-than-significant impact would occur associated with operations.

Conclusion

The proposed project's construction and operational emissions would not exceed the applicable thresholds of significance. In addition, the project would be required to comply with all applicable PCAPCD rules and regulations. Because the project would not exceed the thresholds of significance, the proposed project would not substantially contribute to the region's nonattainment status of ozone or PM. Therefore, implementation of the proposed project would not violate an air quality standard or contribute to an existing or projected air quality violation, and a *less-than-significant* impact related to air quality could occur.

- c. A cumulative impact analysis considers a project over time in conjunction with other past, present, and reasonably foreseeable future projects whose impacts might compound those of the project being assessed. Due to the dispersive nature and regional sourcing of air pollutants, air pollution is already largely a cumulative impact. The nonattainment status of regional pollutants, including ozone and PM, is a result of past and present development, and, thus, cumulative impacts related to these pollutants could be considered cumulatively significant.

To improve air quality and attain the health-based standards, reductions in emissions are necessary within nonattainment areas. The project is part of a pattern of urbanization occurring in the greater Sacramento ozone nonattainment area. The growth and combined vehicle usage, and business activity within the nonattainment area from the project, in combination with other past, present, and reasonably foreseeable projects within Roseville and surrounding areas, could either delay attainment of the standards or require the adoption of additional controls on existing and future air pollution sources to offset emission increases. Thus, the project could cumulatively contribute to regional air quality health effects through emissions of criteria and mobile source air pollutants.

The PCAPCD recommends using the region's existing attainment plans as a basis for analysis of cumulative emissions. If a project would interfere with an adopted attainment plan, the project would inhibit the future attainment of AAQS, and thus result in a cumulative impact. As discussed above, the PCAPCD's recommended thresholds of significance for ozone precursors and PM₁₀ are based on attainment plans for the region. Thus, the PCAPCD concluded that if a project's ozone precursor and PM₁₀ emissions would be less than PCAPCD project-level thresholds, the project would not be expected to conflict with any relevant attainment plans, and would not result in a cumulatively considerable contribution to a significant cumulative impact. As a result, the PCACPD established operational phase cumulative-level emissions thresholds identical to the operational thresholds identified above, in Table 1.

As shown in Table 3 above, the proposed project would not result in emissions in exceedance of the applicable thresholds of significance for ozone precursors or PM₁₀. Accordingly, impacts related to the cumulative emissions of criteria pollutants for which PCAPCD is in non-attainment would be considered ***less than significant***.

- d. Some land uses are considered more sensitive to air pollution than others, due to the types of population groups or activities involved. Heightened sensitivity may be caused by health problems, proximity to the emissions source, and/or duration of exposure to air pollutants. Children, pregnant women, the elderly, and those with existing health problems are especially vulnerable to the effects of air pollution. Accordingly, land uses that are typically considered to be sensitive receptors include residences, schools, childcare centers, playgrounds, retirement homes, convalescent homes, hospitals, and medical clinics. The proposed project involves the expansion of a hospital building for emergency medical operations. Patients at the existing nearby medical structures and future patients of the expanded hospital structure would be considered sensitive receptors due to the expected presence of persons with existing health problems.

The major pollutant concentrations of concern are localized CO emissions and toxic air contaminant (TAC) emissions, which are addressed in further detail below.

Localized CO Emissions

Localized concentrations of CO are related to the levels of traffic and congestion along streets and at intersections. Implementation of the proposed project would increase traffic volumes on streets near the project site; therefore, the project would be expected to increase local CO concentrations. High levels of localized CO concentrations are only expected where background levels are high, and traffic volumes and congestion levels are high. The Statewide CO Protocol document identifies signalized intersections operating at Level of Service (LOS) E or F, or projects that would result in the worsening of signalized intersections to LOS E or F, as having the potential to result in localized CO concentrations in excess of the State or federal AAQS, as a result of large numbers of cars idling at stop lights.¹

Consistent with the State CO Protocol, the PCAPCD recommends further analysis for localized CO concentrations if the project would cause a signalized intersection to be degraded from an acceptable LOS (i.e., LOS A, B, C, or D) to an unacceptable LOS (i.e., LOS E or F), or substantially worsen an already existing unacceptable peak-hour LOS at an intersection, as determined by a traffic study. Substantially worsen is defined by PCAPCD as an increase in delay by 10 seconds or more.

To assess potential traffic impacts that could result from operation of the proposed project, Fehr and Peers completed a *Transportation Impact Study* for the proposed project. Fehr and Peers concluded that while several intersections in the project area currently operate at unacceptable LOS E, the proposed project would not result in the degradation of any intersections from acceptable to unacceptable LOS. The proposed project would increase the delay at the intersections of Roseville Parkway/Galleria Boulevard, and East Roseville Parkway/Taylor Road, both of which currently operate at unacceptable LOS. However, the maximum increase in delay at the aforementioned intersections would be a four second increase during the PM peak hour at Roseville Parkway/Galleria Boulevard, while the intersection of East Roseville Parkway/Taylor Road would only experience a two second increase in delay during the PM peak hour. A maximum increase in delay of four seconds would not be considered to substantially worsen the intersection according to the PCAPCD. Thus, the proposed project would not result in the degradation of an intersection operating at an acceptable LOS to an unacceptable LOS, nor would project substantially worsen operations at an intersection already operating at an unacceptable LOS.²

¹ California Department of Transportation. *Transportation Project-Level Carbon Monoxide Protocol*. December 1997.

² Fehr and Peers. *Draft Transportation Impact Study for Sutter Roseville Medical Center Expansion*. February 6, 2017.

Based on the above, the proposed project would not result in substantial concentrations of localized CO at any affected intersection. Therefore, the proposed project would not expose sensitive receptors to substantial concentrations of CO.

TAC Emissions

Another category of environmental concern is TACs. The *CARB's Air Quality and Land Use Handbook: A Community Health Perspective* (Handbook) provides recommended setback distances for sensitive land uses from major sources of TACs, including, but not limited to, freeways and high traffic roads, distribution centers, and rail yards. The CARB has identified diesel particulate matter (DPM) from diesel-fueled engines as a TAC; thus, high volume freeways, stationary diesel engines, and facilities attracting heavy and constant diesel vehicle traffic are identified as having the highest associated health risks from DPM. Health risks from TACs are a function of both the concentration of emissions and the duration of exposure. Health-related risks associated with DPM in particular are primarily associated with long-term exposure and associated risk of contracting cancer.

As part of the *California Building Industry Association v. Bay Area Air Quality Management District* case, the California Supreme Court granted limited review to the question: Under what circumstances, if any, does CEQA require an analysis of how existing environmental conditions will impact future residents or users (receptors) of a proposed project? In the opinion published on December 17, 2015, the Supreme Court stated that even in those specific instances where evaluation of a project's potentially significant exacerbating effects on existing environmental hazards is appropriate, the evaluation of how future residents or users could be affected by the exacerbated conditions is still compelled by the project's impact on the environment, and not the environment's impact on the project.³

Considering the recent court rulings, while the proposed project would be considered a sensitive receptor, due to the presence of medical patients, consideration of potential impacts related to existing sources of TACs on future patients at the proposed medical office are outside of the scope of CEQA. However, potential sources of TACs related to operation or construction of the proposed project could have the potential to expose existing sensitive receptors to TACs. As discussed previously, the closest sensitive receptor to the project site are the medical patients in the surrounding Sutter Roseville Medical Center.

The proposed project would involve the operation of a new stationary diesel emergency generator on-site, for which a permit from the PCAPCD would be required to be obtained for operation. Per the permit, the generator would be regulated and monitored to ensure any associated emissions are under specified limitations. In addition, the generator is intended to be used only for emergency situations in order to provide continuous power operation during utility power outages, as required by the California Building Standards Code. Periodic testing of the generator would also occur at least 12 times per year as specified by Section 41514.1 of the California Health and Safety Code. As such, the generator would not be used regularly and, per the permit, would be limited to a maximum operation time for maintenance and

³ Alameda County Superior Court. *California Building Industry Association v. Bay Area Air Quality Management District*. A135335 and A136212. Filed August 12, 2016.

testing of 100 hours per year. Therefore, the emergency generator is not anticipated to be associated with, or expose sensitive receptors to, any substantial pollutant concentrations. Thus, the emergency generator would not generate any substantial pollutant concentrations during operations of the proposed project.

Construction-related activities could result in the generation of TACs, specifically diesel particulate matter (DPM), from on-road haul trucks and off-road equipment exhaust emissions. However, construction is temporary and occurs over a relatively short duration in comparison to the operational lifetime of the proposed project. All construction equipment and operation thereof would be regulated per the State's In-Use Off-Road Diesel Vehicle Regulation. Project construction would also be required to comply with all applicable PCAPCD rules and regulations, particularly associated with permitting of air pollutant sources. In addition, construction equipment would operate intermittently throughout the course of a day, would be restricted to daytime hours per Chapter 9.24 of the City's Municipal Code, and would likely only occur over portions of the project site at a time. According to PCAPCD, if construction emissions are below the applicable mass emissions thresholds of significance and grading would disturb less than 15 acres per day, construction DPM would not be generated such that associated health risks would result.⁴ As discussed above, and presented in Table 2, construction activity related to the proposed project would not result in mass emissions in excess of the thresholds of significance, nor would the project disturb more than 15 acres per day. In fact, construction of the proposed project would only disturb approximately three acres of land. As such, construction of the proposed project would not be expected to generate substantial DPM emissions that could result in health risks.

Considering the short-term nature of construction activities, the limited extent of ground disturbance, and the regulated and intermittent nature of the operation of construction equipment, the likelihood that any one sensitive receptor would be exposed to high concentrations of DPM for any extended period of time during construction would be low. In addition, the intermittent testing of the emergency generator would be conducted for a limited amount of time and in accordance with the PCAPCD's permitting requirements. As such, the emergency generator included in the proposed project would be unlikely to expose any one sensitive receptor to high concentrations of DPM for any extended period of time. For the aforementioned reasons, project construction would not be expected to expose sensitive receptors to substantial pollutant concentrations.

Conclusion

Based on the above, the proposed project would not expose any sensitive receptors to substantial concentrations of any pollutants. Therefore, impacts related to exposing sensitive receptors to substantial pollutant concentrations would be *less than significant*.

- e. Odors are generally regarded as an annoyance rather than a health hazard. Due to the subjective nature of odor impacts, the number of variables that can influence the potential

⁴ Placer County Air Pollution Control District. Personal communication with Angel Green, Associate Planner. September 21, 2015.

for an odor impact, and the variety of odor sources, quantitative methodologies to determine the presence of a significant odor impact do not exist. Certain land uses such as wastewater treatment facilities, landfills, confined animal facilities, composting operations, food manufacturing plants, refineries, and chemical plants have the potential to generate considerable odors. The project site is located in a developed area and is not located in the vicinity of any existing or planned such land uses. Hospital land uses are not typically associated with the creation of objectionable odors. Additionally, the proposed hospital expansion is consistent with the surrounding medical uses in the Sutter Roseville Medical Center; as such, the proposed project would not be anticipated to change the odor setting of project area by introducing new land uses. Thus, the project would not introduce any new sources or be exposed to any existing sources of potential objectionable odors.

Although less common, diesel fumes associated with substantial diesel-fueled equipment and heavy-duty trucks, such as from construction activities or operations of emergency generators, could be found to be objectionable. However, as addressed above, construction is temporary and construction equipment would operate intermittently throughout the course of a day, would be restricted to certain hours per the City's Municipal Code, and would likely only occur over portions of the improvement area at a time. The emergency generator would only operate intermittently for limited testing activities and in emergency situations. All construction equipment, emergency generators and operation thereof would be regulated per the statewide In-Use Off-Road Diesel Vehicle Regulation and the CARB's Airborne Toxic Control Measure for Stationary Compression Ignition Engines. Construction equipment and the emergency generator would also be required to comply with applicable PCAPCD rules and regulations, particularly associated with permitting of air pollutant sources. The aforementioned regulations would help to minimize air pollutant emissions as well as any associated odors. Considering the short-term nature of construction activities and the regulated and intermittent nature of the operation of construction equipment and the emergency generator, construction of the proposed project and operation of the emergency generator would not be expected to create objectionable odors affecting a substantial number of people.

PCAPCD Rule 205, Nuisance, addresses the exposure of "nuisance or annoyance" air contaminant discharges, including odors, and provides enforcement of odor control. Rule 205 is complaint-based, where if public complaints are sufficient to cause the odor source to be considered a public nuisance, then the PCAPCD is required to investigate the identified source, as well as determine and ensure a solution for the source of the complaint, which could include operational modifications to correct the nuisance condition. Thus, although not anticipated, if odor or air quality complaints are made upon development of the proposed project, the PCAPCD would be required (per PCAPCD Rule 205) to ensure that such complaints are addressed and mitigated, as necessary.

For the aforementioned reasons, construction and operation of the proposed project would not create objectionable odors affecting a substantial number of people, and impacts would be *less than significant*.

VII. GREENHOUSE GAS EMISSIONS. <i>Would the project:</i>	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less-Than-Significant Impact	No Impact
	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
a. Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b. Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gasses?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Discussion

- a,b. Emissions of greenhouse gases (GHGs) contributing to global climate change are attributable in large part to human activities associated with the industrial/manufacturing, utility, transportation, residential, and agricultural sectors. Therefore, the cumulative global emissions of GHGs contributing to global climate change can be attributed to every nation, region, and city, and virtually every individual on earth. An individual project's GHG emissions are at a micro-scale level relative to global emissions and effects to global climate change; however, an individual project could result in a cumulatively considerable incremental contribution to a significant cumulative macro-scale impact. As such, impacts related to emissions of GHG are inherently considered cumulative impacts.

Recognizing the global scale of climate change, California has enacted several pieces of legislations in an attempt to address GHG emissions. Specifically, Assembly Bill (AB) 32, and more recently Senate Bill (SB) 32, have established statewide GHG emissions reduction targets. Accordingly, the CARB has prepared the Climate Change Scoping Plan for California (Scoping Plan), which was approved in 2008 and updated in 2014. The Scoping Plan provides the outline for actions to reduce California's GHG emissions and achieve the emissions reductions targets required by AB 32. In concert with statewide efforts to reduce GHG emissions, air districts, counties, and local jurisdictions throughout the State have implemented their own policies and plans to achieve emissions reductions in line with the Scoping Plan and emissions reductions targets, including AB 32 and SB 32.

As a means of achieving the regional GHG emissions reductions goals required by AB 32, on October 13, 2016, the PCAPCD adopted GHG emissions thresholds to help the district attain the GHG reduction goals established by AB 32 and SB 32. The common unit of measurement for GHG, used by PCAPCD, is expressed in terms of annual metric tons of CO₂ equivalents (MTCO₂e/yr). The updated thresholds begin with a screening emission level of 1,100 MT CO₂e/yr. Any project below the 1,100 MT CO₂e/yr threshold is judged by the PCAPCD as having a less-than-significant impact on GHG emissions within the District, and thus would not conflict with any state or regional GHG emissions reduction goals. Projects that would result in emissions above the 1,100 MT CO₂e/yr threshold would not necessarily result in substantial impacts, if certain efficiency thresholds are met. The efficiency thresholds, which are calculated on a per capita or square foot basis, are presented in Table 4.

Table 4 PCAPCD Operational Thresholds of Significance			
Efficiency Thresholds			
Residential (MT CO ₂ e/capita)		Non-Residential (MT CO ₂ e/1,000 sf)	
Urban	Rural	Urban	Rural
4.5	5.5	26.5	27.3

Source: Placer County Air Pollution Control District. Placer County Air Pollution Control District Policy. Review of Land Use Projects Under CEQA. October 13, 2016.

Projects that fall below the 1,100 MT CO₂e/yr threshold or meet the efficiency thresholds are considered to be in keeping with statewide GHG emissions reduction targets, which would ensure that the proposed project would not inhibit the State's achievement of GHG emissions reductions. Thus, projects with emissions below the 1,100 MT CO₂e/yr threshold or below the efficiency thresholds presented in Table 4, are considered to result in less-than-significant impacts in regards to GHG emissions within the District and thus would not conflict with any state or regional GHG emissions reduction goals. Finally, the PCAPCD has also established a Bright Line Cap, which shall be the maximum limit for any proposed project. The Bright Line Cap is 10,000 MT CO₂e/yr for all types of projects.

Implementation of the proposed project would cumulatively contribute to increases of GHG emissions. Estimated GHG emissions attributable to future development would be primarily associated with increases of carbon dioxide (CO₂) and, to a lesser extent, other GHG pollutants, such as methane (CH₄) and nitrous oxide (N₂O) associated with area sources, mobile sources or vehicles, utilities (electricity and natural gas), water usage, wastewater generation, the generation of solid waste, and the use of the emergency generator. The primary source of GHG emissions for the project would be mobile source emissions.

Buildout of the proposed project would contribute to increases of GHG emissions that are associated with global climate change during construction and operations. The proposed project's short-term construction-related and long-term operational GHG emissions are presented below.

Short-Term Construction GHG Emissions

Construction-related GHG emissions are a one-time release and are, therefore, not typically expected to generate a significant contribution to global climate change, as global climate change is inherently a cumulative effect that occurs over a long period of time and is quantified on a yearly basis. However, the proposed project's construction GHG emissions have been estimated and compared to the PCAPCD's operational thresholds of significance for informational purposes. The proposed project's total construction-related GHG emissions are presented in Table 5. The construction modeling assumptions are described in the Air Quality section above.

Table 5 Total Unmitigated Project Construction GHG Emissions	
Construction GHG Emissions (MTCO₂e)	Threshold of Significance (MTCO₂e/yr)
538.53	1,100
<i>Source: CalEEMod, February 2017 (see Appendix A).</i>	

As shown in Table 5 above, the proposed project's total unmitigated construction-related GHG emissions would be below the applicable 1,100 MT CO₂e/yr threshold. It should be noted that construction activity would occur over 3.5 years, and the maximum annual construction emissions related to the proposed project would only be 259.13 MTCO₂e/yr. Accordingly, the proposed project would not be expected to have a significant impact related to GHG emissions during construction.

Long-Term Operational GHG Emissions

The proposed project's estimated operational GHG emissions are presented in Table 6. It should be noted that modeling for operation of the proposed project was adjusted to reflect the CO₂ intensity factor for energy provided by Roseville Electric, based on Roseville Electric's progress towards meeting the State's Renewable Energy Portfolio Standards. All other operational modeling assumptions are described in the Air Quality section above.

Table 6 Unmitigated Project Operational GHG Emissions	
Emission Source	Annual GHG Emissions (MTCO₂e/yr)
Area	0.0018
Energy	790.20
Mobile	451.68
Emergency Generator	84.30
Solid Waste	501.31
Water	34.51
TOTAL ANNUAL GHG EMISSIONS	1,862.00

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

As shown in the table, the proposed project would result in operational GHG emissions in excess of the 1,100 MTCO₂e threshold. Accordingly, the project must be further reviewed under the efficiency thresholds presented in Table 4. The PCAPCD maintains efficiency thresholds for both urban and rural commercial developments. Because the proposed project is located within the City of Roseville, and is surrounded by existing developments, the project is considered to be located in an urban setting. The efficiency thresholds adopted by PCAPCD rely on GHG emissions in MTCO₂e per 1,000 sf of non-residential space to determine significance for non-residential projects. As such, the proposed project's estimated annual operational emissions of 1,862.00 MTCO₂e must be divided by the floor area of the proposed hospital expansion. The proposed project would include 92,300 sf of expanded emergency care hospital space. Thus, the proposed project would result in an efficiency rate of 20.17 MTCO₂e/1,000 sf. The PCAPCD urban non-residential efficiency

threshold is 26.5 MTCO₂e/1,000 sf. Therefore, the proposed project would result in operational GHG emissions below the applicable PCAPCD efficiency thresholds.

Based on the above, the proposed project would not be considered to generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, or conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs. Therefore, impacts related to GHG emissions and global climate change would not be cumulatively considerable and would be considered ***less than significant***.

APPENDIX A

CALEEMOD RESULTS

Sutter Roseville ED Expansion - Placer County APCD Air District, Summary Report

Sutter Roseville ED Expansion
Placer County APCD, Summary Report

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	92.30	1000sqft	0.71	92,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Roseville Electric				
CO2 Intensity (lb/MWhr)	584.45	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments

Only CalEEMod defaults were used.

Project Characteristics - CO2 Intensity adjusted to reflect progress towards RPS

Land Use - Three-story structure

Construction Phase - Applicant Information

Grading - *

Demolition -

Vehicle Trips - Fehr and Peers Provided VMT

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Mitigation -

Area Mitigation -

Sutter Roseville ED Expansion - Placer County APCD Air District, 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											
2017	Architectural Coating	2.1503 S	2.2089 W	2.1171 S	3.5100e-003 S	0.2230 S	0.1867 S	2.1503 S	2.2089 W	2.1171 S	3.5100e-003 S	0.2230 S	0.1867 S
2018	Architectural Coating	2.1130 S	2.0264 W	2.0719 S	3.5000e-003 S	0.2002 S	0.1639 S	2.1130 S	2.0264 W	2.0719 S	3.5000e-003 S	0.2002 S	0.1639 S
2019	Architectural Coating	2.0781 S	1.8535 W	2.0369 S	3.4800e-003 S	0.1784 S	0.1421 S	2.0781 S	1.8535 W	2.0369 S	3.4800e-003 S	0.1784 S	0.1421 S
2017	Building Construction	1.5258 W	15.0550 W	9.7850 S	0.0186 S	1.2276 W	0.9045 W	1.5258 W	15.0550 W	9.7850 S	0.0186 S	1.2276 W	0.9045 W
2018	Building Construction	1.2988 S	13.1769 W	9.2495 S	0.0185 S	1.0730 W	0.7621 W	1.2988 S	13.1769 W	9.2495 S	0.0185 S	1.0730 W	0.7621 W
2019	Building Construction	1.1497 S	11.8362 W	8.8858 S	0.0184 S	0.9669 W	0.6644 W	1.1497 S	11.8362 W	8.8858 S	0.0184 S	0.9669 W	0.6644 W
2017	Demolition	1.2856 S	11.2438 W	8.4449 S	0.0146 S	1.2952 W	0.8008 W	1.2856 S	11.2438 W	8.4449 S	0.0146 S	1.2952 W	0.8008 W
2017	Grading	1.3053 W	11.8465 W	8.5403 S	0.0161 S	1.7962 W	1.1767 W	1.3053 W	11.8465 W	8.5403 S	0.0161 S	1.7962 W	1.1767 W
2017	Paving	1.1482 S	10.0469 W	8.0894 S	0.0129 S	0.7576 S	0.6037 S	1.1482 S	10.0469 W	8.0894 S	0.0129 S	0.7576 S	0.6037 S
2017	Site Preparation	0.8901 S	10.8826 W	4.6158 S	0.0111 S	0.5345 W	0.4529 W	0.8901 S	10.8826 W	4.6158 S	0.0111 S	0.5345 W	0.4529 W
	Peak Daily Total	2.1503 S	15.0550 W	9.7850 S	0.0186 S	1.7962 W	1.1767 W	2.1503 S	15.0550 W	9.7850 S	0.0186 S	1.7962 W	1.1767 W
	Air District Threshold												
	Exceed Significance?												

Peak Daily Operational Emissions

Peak Daily Operational Emissions

Sutter Roseville ED Expansion - Placer County APCD Air District, Summary Report

3.0 Annual GHG Emissions

Annual GHG

Annual GHG

Sutter Roseville ED Expansion
Placer County APCD Air District, 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	4	No Change	0.00
Concrete/Industrial Saws	Diesel	No Change	0	2	No Change	0.00
Cranes	Diesel	No Change	0	1	No Change	0.00
Forklifts	Diesel	No Change	0	2	No Change	0.00
Graders	Diesel	No Change	0	1	No Change	0.00
Pavers	Diesel	No Change	0	1	No Change	0.00
Rollers	Diesel	No Change	0	1	No Change	0.00
Rubber Tired Dozers	Diesel	No Change	0	2	No Change	0.00
Tractors/Loaders/Backhoes	Diesel	No Change	0	8	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	6.91700E-002	4.67930E-001	4.43150E-001	7.10000E-004	3.44600E-002	3.44600E-002	0.00000E+000	6.11505E+001	6.11505E+001	5.61000E-003	0.00000E+000	6.12908E+001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	2.55600E-002	1.87490E-001	1.64960E-001	2.80000E-004	1.34900E-002	1.34900E-002	0.00000E+000	2.36569E+001	2.36569E+001	2.08000E-003	0.00000E+000	2.37089E+001
Cranes	6.68500E-002	7.97500E-001	2.96600E-001	6.90000E-004	3.44400E-002	3.16800E-002	0.00000E+000	6.28396E+001	6.28396E+001	1.96400E-002	0.00000E+000	6.33305E+001
Forklifts	6.30900E-002	5.57860E-001	4.34570E-001	5.50000E-004	4.43100E-002	4.07600E-002	0.00000E+000	4.99357E+001	4.99357E+001	1.56000E-002	0.00000E+000	5.03257E+001
Graders	1.34000E-003	1.86800E-002	4.90000E-003	2.00000E-005	6.10000E-004	5.60000E-004	0.00000E+000	1.54506E+000	1.54506E+000	4.70000E-004	0.00000E+000	1.55690E+000
Pavers	8.20000E-004	9.17000E-003	6.45000E-003	1.00000E-005	4.50000E-004	4.20000E-004	0.00000E+000	9.53530E-001	9.53530E-001	2.90000E-004	0.00000E+000	9.60830E-001
Rollers	6.80000E-004	6.35000E-003	4.36000E-003	1.00000E-005	4.60000E-004	4.20000E-004	0.00000E+000	5.32160E-001	5.32160E-001	1.60000E-004	0.00000E+000	5.36240E-001
Rubber Tired Dozers	6.77000E-003	7.35200E-002	2.54500E-002	5.00000E-005	3.60000E-003	3.31000E-003	0.00000E+000	4.36065E+000	4.36065E+000	1.34000E-003	0.00000E+000	4.39406E+000
Tractors/Loaders/Backhoes	1.47130E-001	1.44922E+000	1.28600E+000	1.71000E-003	1.02760E-001	9.45400E-002	0.00000E+000	1.55814E+002	1.55814E+002	4.85600E-002	0.00000E+000	1.57028E+002

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	6.91700E-002	4.67930E-001	4.43150E-001	7.10000E-004	3.44600E-002	3.44600E-002	0.00000E+000	6.11504E+001	6.11504E+001	5.61000E-003	0.00000E+000	6.12907E+001
Cement and Mortar Mixers	4.40000E-004	2.76000E-003	2.31000E-003	1.00000E-005	1.10000E-004	1.10000E-004	0.00000E+000	3.43710E-001	3.43710E-001	4.00000E-005	0.00000E+000	3.44600E-001
Concrete/Industrial Saws	2.55600E-002	1.87490E-001	1.64960E-001	2.80000E-004	1.34900E-002	1.34900E-002	0.00000E+000	2.36569E+001	2.36569E+001	2.08000E-003	0.00000E+000	2.37089E+001
Cranes	6.68500E-002	7.97490E-001	2.96600E-001	6.90000E-004	3.44400E-002	3.16800E-002	0.00000E+000	6.28395E+001	6.28395E+001	1.96400E-002	0.00000E+000	6.33304E+001
Forklifts	6.30900E-002	5.57860E-001	4.34570E-001	5.50000E-004	4.43100E-002	4.07600E-002	0.00000E+000	4.99356E+001	4.99356E+001	1.56000E-002	0.00000E+000	5.03257E+001
Graders	1.34000E-003	1.86800E-002	4.90000E-003	2.00000E-005	6.10000E-004	5.60000E-004	0.00000E+000	1.54506E+000	1.54506E+000	4.70000E-004	0.00000E+000	1.55689E+000
Pavers	8.20000E-004	9.17000E-003	6.45000E-003	1.00000E-005	4.50000E-004	4.20000E-004	0.00000E+000	9.53520E-001	9.53520E-001	2.90000E-004	0.00000E+000	9.60830E-001
Rollers	6.80000E-004	6.35000E-003	4.35000E-003	1.00000E-005	4.60000E-004	4.20000E-004	0.00000E+000	5.32160E-001	5.32160E-001	1.60000E-004	0.00000E+000	5.36240E-001
Rubber Tired Dozers	6.77000E-003	7.35200E-002	2.54500E-002	5.00000E-005	3.60000E-003	3.31000E-003	0.00000E+000	4.36065E+000	4.36065E+000	1.34000E-003	0.00000E+000	4.39405E+000
Tractors/Loaders/Buckets/hoes	1.47130E-001	1.44922E+000	1.28600E+000	1.71000E-003	1.02760E-001	9.45400E-002	0.00000E+000	1.55813E+002	1.55813E+002	4.85600E-002	0.00000E+000	1.57027E+002

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	1.30825E-006	1.30825E-006	0.00000E+000	0.00000E+000	1.14210E-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	1.26813E-006	1.26813E-006	0.00000E+000	0.00000E+000	1.26535E-006
Cranes	0.00000E+000	1.25392E-005	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.27308E-006	1.27308E-006	0.00000E+000	0.00000E+000	1.26322E-006
Forklifts	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.20155E-006	1.20155E-006	0.00000E+000	0.00000E+000	1.19223E-006
Graders	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	6.42302E-006
Pavers	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.04873E-005	1.04873E-005	0.00000E+000	0.00000E+000	0.00000E+000
Rollers	0.00000E+000	0.00000E+000	2.29358E-003	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	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	2.27580E-006
Tractors/Loaders/Buckets/hoes	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	0.00000E+000	1.21941E-006	1.21941E-006	0.00000E+000	0.00000E+000	1.14630E-006

Fugitive Dust Mitigation

Yes/No	Mitigation Measure	Mitigation Input	Mitigation Input	Mitigation Input
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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	0.01	0.00	0.01	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	0.08	0.02	0.08	0.02	0.00	0.00
Demolition	Fugitive Dust	0.01	0.00	0.01	0.00	0.00	0.00
Demolition	Roads	0.00	0.00	0.00	0.00	0.00	0.00
Grading	Fugitive Dust	0.01	0.00	0.01	0.00	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	1.78	1.78	1.81	1.75	1.78	
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	3.58	3.59	3.59	3.48	3.60	3.60	0.00	3.59	3.59	3.63	3.53	3.59
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
Yes	Exceed Title 24	5.00	
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

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1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	92.30	1000sqft	0.71	92,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Roseville Electric				
CO2 Intensity (lb/MWhr)	584.45	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity adjusted to reflect progress towards RPS

Land Use - Three-story structure

Construction Phase - Applicant Information

Grading - *

Demolition -

Vehicle Trips - Fehr and Peers Provided VMT

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Mitigation -

Area Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	479.00
tblConstructionPhase	NumDays	100.00	479.00
tblConstructionPhase	NumDays	10.00	67.00
tblConstructionPhase	NumDays	2.00	21.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	5/31/2017	9/12/2019
tblConstructionPhase	PhaseEndDate	5/31/2017	8/16/2019
tblConstructionPhase	PhaseEndDate	5/31/2017	9/1/2017
tblConstructionPhase	PhaseEndDate	5/31/2017	10/9/2017
tblConstructionPhase	PhaseEndDate	5/31/2017	10/16/2017
tblConstructionPhase	PhaseEndDate	5/31/2017	9/8/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	11/12/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	10/17/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	9/9/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	10/10/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	9/2/2017
tblGrading	AcresOfGrading	0.00	3.00
tblGrading	AcresOfGrading	2.50	0.00
tblGrading	MaterialExported	0.00	630.00
tblGrading	MaterialExported	0.00	40.00
tblLandUse	LotAcreage	2.12	0.71
tblProjectCharacteristics	CO2IntensityFactor	793.8	584.45
tblProjectCharacteristics	OperationalYear	2018	2020
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,206.00

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tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	100.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	CC_TL	7.30	1.80
tblVehicleTrips	CNW_TL	7.30	1.80
tblVehicleTrips	CW_TL	9.50	2.34

2.0 Emissions Summary

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2.1 Overall Construction**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.1400	0.9981	0.7012	1.2700e-003	0.0399	0.0620	0.1018	0.0110	0.0584	0.0693	0.0000	115.5617	115.5617	0.0212	0.0000	116.0922
2018	0.4431	1.9834	1.4644	2.8300e-003	0.0497	0.1143	0.1639	0.0135	0.1068	0.1203	0.0000	257.8941	257.8941	0.0495	0.0000	259.1307
2019	0.2832	1.1399	0.9070	1.8000e-003	0.0317	0.0625	0.0942	8.6100e-003	0.0585	0.0671	0.0000	162.5375	162.5375	0.0309	0.0000	163.3098
Maximum	0.4431	1.9834	1.4644	2.8300e-003	0.0497	0.1143	0.1639	0.0135	0.1068	0.1203	0.0000	257.8941	257.8941	0.0495	0.0000	259.1307

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2017	0.1400	0.9981	0.7012	1.2700e-003	0.0399	0.0620	0.1018	0.0110	0.0584	0.0693	0.0000	115.5616	115.5616	0.0212	0.0000	116.0921
2018	0.4431	1.9834	1.4644	2.8300e-003	0.0497	0.1143	0.1639	0.0135	0.1068	0.1203	0.0000	257.8939	257.8939	0.0495	0.0000	259.1305
2019	0.2832	1.1399	0.9070	1.8000e-003	0.0317	0.0625	0.0942	8.6100e-003	0.0585	0.0671	0.0000	162.5374	162.5374	0.0309	0.0000	163.3097
Maximum	0.4431	1.9834	1.4644	2.8300e-003	0.0497	0.1143	0.1639	0.0135	0.1068	0.1203	0.0000	257.8939	257.8939	0.0495	0.0000	259.1305

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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	N20	CO2e
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2017	8-31-2017	0.4107	0.4107
2	9-1-2017	11-30-2017	0.5031	0.5031
3	12-1-2017	2-28-2018	0.6240	0.6240
4	3-1-2018	5-31-2018	0.6104	0.6104
5	6-1-2018	8-31-2018	0.6098	0.6098
6	9-1-2018	11-30-2018	0.6044	0.6044
7	12-1-2018	2-28-2019	0.5625	0.5625
8	3-1-2019	5-31-2019	0.5548	0.5548
9	6-1-2019	8-31-2019	0.4850	0.4850
10	9-1-2019	9-30-2019	0.0168	0.0168
		Highest	0.6240	0.6240

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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	0.4033	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003	
Energy	0.0422	0.3834	0.3220	2.3000e-003		0.0291	0.0291		0.0291	0.0291	0.0000	808.1045	808.1045	0.0274	0.0117	812.2648	
Mobile	0.2703	1.6170	1.9200	4.8900e-003	0.2593	5.4100e-003	0.2647	0.0698	5.1000e-003	0.0749	0.0000	450.8008	450.8008	0.0353	0.0000	451.6822	
Stationary	0.1810	0.8095	0.4615	8.7000e-004		0.0266	0.0266		0.0266	0.0266	0.0000	84.0039	84.0039	0.0118	0.0000	84.2983	
Waste						0.0000	0.0000		0.0000	0.0000	202.3495	0.0000	202.3495	11.9585	0.0000	501.3124	
Water						0.0000	0.0000		0.0000	0.0000	3.6744	18.6607	22.3351	0.3783	9.1000e-003	34.5057	
Total	0.8968	2.8099	2.7044	8.0600e-003	0.2593	0.0612	0.3205	0.0698	0.0609	0.1306	206.0239	1,361.5716	1,567.5955	12.4113	0.0208	1,884.0651	

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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	0.3764	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003		
Energy	0.0407	0.3696	0.3105	2.2200e-003		0.0281	0.0281	0.0281	0.0281	0.0000	786.1549	786.1549	0.0268	0.0113	790.1961		
Mobile	0.2703	1.6170	1.9200	4.8900e-003	0.2593	5.4100e-003	0.2647	0.0698	5.1000e-003	0.0749	0.0000	450.8008	450.8008	0.0353	0.0000	451.6822	
Stationary	0.1810	0.8095	0.4615	8.7000e-004		0.0266	0.0266	0.0266	0.0266	0.0000	84.0039	84.0039	0.0118	0.0000	84.2983		
Waste						0.0000	0.0000	0.0000	0.0000	202.3495	0.0000	202.3495	11.9585	0.0000	501.3124		
Water						0.0000	0.0000	0.0000	0.0000	3.6744	18.6607	22.3351	0.3783	9.1000e-003	34.5057		
Total	0.8684	2.7961	2.6929	7.9800e-003	0.2593	0.0601	0.3195	0.0698	0.0598	0.1296	206.0239	1,339.6219	1,545.6458	12.4106	0.0204	1,861.9965	

	ROG	NOx	CO	SO2	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	3.17	0.49	0.43	0.99	0.00	1.72	0.33	0.00	1.72	0.80	0.00	1.61	1.40	0.01	1.64	1.17

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	Architectural Coating	Architectural Coating	11/12/2017	9/12/2019	5	479	
2	Building Construction	Building Construction	10/17/2017	8/16/2019	5	479	
3	Demolition	Demolition	6/1/2017	9/1/2017	5	67	
4	Grading	Grading	9/9/2017	10/9/2017	5	21	
5	Paving	Paving	10/10/2017	10/16/2017	5	5	
6	Site Preparation	Site Preparation	9/2/2017	9/8/2017	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 138,450; Non-Residential Outdoor: 46,150; 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
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Grading	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	2	6.00	89	0.20
Site Preparation	Graders	1	8.00	187	0.41
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Building Construction	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	30.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	136.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	79.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	5.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction**3.2 Architectural Coating - 2017****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	0.0313						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8200e-003	0.0382	0.0327	5.0000e-005			3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	4.4682	4.4682	4.7000e-004	0.0000	4.4800
Total	0.0371	0.0382	0.0327	5.0000e-005			3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	4.4682	4.4682	4.7000e-004	0.0000	4.4800

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-004	3.8000e-004	3.9200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7803	0.7803	3.0000e-005	0.0000	0.7809	
Total	5.0000e-004	3.8000e-004	3.9200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7803	0.7803	3.0000e-005	0.0000	0.7809	

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3.2 Architectural Coating - 2017**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	0.0313						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	5.8200e-003	0.0382	0.0327	5.0000e-005		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	4.4682	4.4682	4.7000e-004	0.0000	4.4800	
Total	0.0371	0.0382	0.0327	5.0000e-005		3.0300e-003	3.0300e-003		3.0300e-003	3.0300e-003	0.0000	4.4682	4.4682	4.7000e-004	0.0000	4.4800	

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-004	3.8000e-004	3.9200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7803	0.7803	3.0000e-005	0.0000	0.7809	
Total	5.0000e-004	3.8000e-004	3.9200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7803	0.7803	3.0000e-005	0.0000	0.7809	

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3.2 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	0.2331						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.2618	0.2420	3.9000e-004			0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e-003	0.0000	33.3992
Total	0.2721	0.2618	0.2420	3.9000e-004			0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e-003	0.0000	33.3992

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	3.2700e-003	2.4400e-003	0.0254	6.0000e-005	6.1500e-003	4.0000e-005	6.1900e-003	1.6400e-003	4.0000e-005	1.6800e-003	0.0000	5.6517	5.6517	1.7000e-004	0.0000	5.6559	
Total	3.2700e-003	2.4400e-003	0.0254	6.0000e-005	6.1500e-003	4.0000e-005	6.1900e-003	1.6400e-003	4.0000e-005	1.6800e-003	0.0000	5.6517	5.6517	1.7000e-004	0.0000	5.6559	

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3.2 Architectural Coating - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	0.2331						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0390	0.2618	0.2420	3.9000e-004			0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e-003	0.0000	33.3991
Total	0.2721	0.2618	0.2420	3.9000e-004			0.0197	0.0197		0.0197	0.0197	0.0000	33.3200	33.3200	3.1700e-003	0.0000	33.3991

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	3.2700e-003	2.4400e-003	0.0254	6.0000e-005	6.1500e-003	4.0000e-005	6.1900e-003	1.6400e-003	4.0000e-005	1.6800e-003	0.0000	5.6517	5.6517	1.7000e-004	0.0000	5.6559	
Total	3.2700e-003	2.4400e-003	0.0254	6.0000e-005	6.1500e-003	4.0000e-005	6.1900e-003	1.6400e-003	4.0000e-005	1.6800e-003	0.0000	5.6517	5.6517	1.7000e-004	0.0000	5.6559	

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3.2 Architectural Coating - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	0.1634						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0244	0.1679	0.1685	2.7000e-004			0.0118	0.0118		0.0118	0.0118	0.0000	23.3623	23.3623	1.9700e-003	0.0000	23.4116
Total	0.1878	0.1679	0.1685	2.7000e-004			0.0118	0.0118		0.0118	0.0118	0.0000	23.3623	23.3623	1.9700e-003	0.0000	23.4116

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	2.0800e-003	1.5000e-003	0.0159	4.0000e-005	4.3100e-003	3.0000e-005	4.3400e-003	1.1500e-003	3.0000e-005	1.1700e-003	0.0000	3.8440	3.8440	1.1000e-004	0.0000	3.8466	
Total	2.0800e-003	1.5000e-003	0.0159	4.0000e-005	4.3100e-003	3.0000e-005	4.3400e-003	1.1500e-003	3.0000e-005	1.1700e-003	0.0000	3.8440	3.8440	1.1000e-004	0.0000	3.8466	

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3.2 Architectural Coating - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Archit. Coating	0.1634						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0244	0.1679	0.1685	2.7000e-004			0.0118	0.0118		0.0118	0.0118	0.0000	23.3622	23.3622	1.9700e-003	0.0000	23.4116
Total	0.1878	0.1679	0.1685	2.7000e-004			0.0118	0.0118		0.0118	0.0118	0.0000	23.3622	23.3622	1.9700e-003	0.0000	23.4116

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	2.0800e-003	1.5000e-003	0.0159	4.0000e-005	4.3100e-003	3.0000e-005	4.3400e-003	1.1500e-003	3.0000e-005	1.1700e-003	0.0000	3.8440	3.8440	1.1000e-004	0.0000	3.8466	
Total	2.0800e-003	1.5000e-003	0.0159	4.0000e-005	4.3100e-003	3.0000e-005	4.3400e-003	1.1500e-003	3.0000e-005	1.1700e-003	0.0000	3.8440	3.8440	1.1000e-004	0.0000	3.8466	

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3.3 Building Construction - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr														MT/yr	
Off-Road	0.0346	0.3445	0.2179	3.1000e-004		0.0232	0.0232		0.0213	0.0213	0.0000	28.5579	28.5579	8.7500e-003	0.0000	28.7767
Total	0.0346	0.3445	0.2179	3.1000e-004		0.0232	0.0232		0.0213	0.0213	0.0000	28.5579	28.5579	8.7500e-003	0.0000	28.7767

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	2.3600e-003	0.0589	0.0138	1.2000e-004	2.6400e-003	5.0000e-004	3.1500e-003	7.7000e-004	4.8000e-004	1.2400e-003	0.0000	11.4130	11.4130	6.7000e-004	0.0000	11.4297
Worker	3.8400e-003	2.9100e-003	0.0303	7.0000e-005	6.3600e-003	5.0000e-005	6.4100e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	6.0191	6.0191	2.0000e-004	0.0000	6.0241
Total	6.2000e-003	0.0619	0.0441	1.9000e-004	9.0000e-003	5.5000e-004	9.5600e-003	2.4600e-003	5.2000e-004	2.9700e-003	0.0000	17.4321	17.4321	8.7000e-004	0.0000	17.4538

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3.3 Building Construction - 2017**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	0.0346	0.3445	0.2179	3.1000e-004		0.0232	0.0232		0.0213	0.0213	0.0000	28.5579	28.5579	8.7500e-003	0.0000	28.7767
Total	0.0346	0.3445	0.2179	3.1000e-004		0.0232	0.0232		0.0213	0.0213	0.0000	28.5579	28.5579	8.7500e-003	0.0000	28.7767

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	2.3600e-003	0.0589	0.0138	1.2000e-004	2.6400e-003	5.0000e-004	3.1500e-003	7.7000e-004	4.8000e-004	1.2400e-003	0.0000	11.4130	11.4130	6.7000e-004	0.0000	11.4297
Worker	3.8400e-003	2.9100e-003	0.0303	7.0000e-005	6.3600e-003	5.0000e-005	6.4100e-003	1.6900e-003	4.0000e-005	1.7300e-003	0.0000	6.0191	6.0191	2.0000e-004	0.0000	6.0241
Total	6.2000e-003	0.0619	0.0441	1.9000e-004	9.0000e-003	5.5000e-004	9.5600e-003	2.4600e-003	5.2000e-004	2.9700e-003	0.0000	17.4321	17.4321	8.7000e-004	0.0000	17.4538

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3.3 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	0.1416	1.4396	1.0115	1.4900e-003		0.0925	0.0925		0.0851	0.0851	0.0000	135.7352	135.7352	0.0423	0.0000	136.7916
Total	0.1416	1.4396	1.0115	1.4900e-003		0.0925	0.0925		0.0851	0.0851	0.0000	135.7352	135.7352	0.0423	0.0000	136.7916

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	9.8300e-003	0.2674	0.0585	5.8000e-004	0.0128	1.8800e-003	0.0147	3.7000e-003	1.8000e-003	5.5000e-003	0.0000	54.9287	54.9287	3.0200e-003	0.0000	55.0043
Worker	0.0164	0.0122	0.1270	3.1000e-004	0.0307	2.1000e-004	0.0310	8.1800e-003	1.9000e-004	8.3800e-003	0.0000	28.2585	28.2585	8.5000e-004	0.0000	28.2797
Total	0.0262	0.2796	0.1855	8.9000e-004	0.0435	2.0900e-003	0.0456	0.0119	1.9900e-003	0.0139	0.0000	83.1872	83.1872	3.8700e-003	0.0000	83.2839

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3.3 Building Construction - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr														MT/yr	
Off-Road	0.1416	1.4396	1.0115	1.4900e-003		0.0925	0.0925		0.0851	0.0851	0.0000	135.7351	135.7351	0.0423	0.0000	136.7915
Total	0.1416	1.4396	1.0115	1.4900e-003		0.0925	0.0925		0.0851	0.0851	0.0000	135.7351	135.7351	0.0423	0.0000	136.7915

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	9.8300e-003	0.2674	0.0585	5.8000e-004	0.0128	1.8800e-003	0.0147	3.7000e-003	1.8000e-003	5.5000e-003	0.0000	54.9287	54.9287	3.0200e-003	0.0000	55.0043
Worker	0.0164	0.0122	0.1270	3.1000e-004	0.0307	2.1000e-004	0.0310	8.1800e-003	1.9000e-004	8.3800e-003	0.0000	28.2585	28.2585	8.5000e-004	0.0000	28.2797
Total	0.0262	0.2796	0.1855	8.9000e-004	0.0435	2.0900e-003	0.0456	0.0119	1.9900e-003	0.0139	0.0000	83.1872	83.1872	3.8700e-003	0.0000	83.2839

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3.3 Building Construction - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr														MT/yr	
Off-Road	0.0785	0.8053	0.6185	9.3000e-004		0.0496	0.0496		0.0457	0.0457	0.0000	83.8864	83.8864	0.0265	0.0000	84.5499
Total	0.0785	0.8053	0.6185	9.3000e-004		0.0496	0.0496		0.0457	0.0457	0.0000	83.8864	83.8864	0.0265	0.0000	84.5499

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	5.4500e-003	0.1585	0.0328	3.6000e-004	8.0300e-003	9.6000e-004	8.9900e-003	2.3200e-003	9.2000e-004	3.2400e-003	0.0000	34.2206	34.2206	1.8000e-003	0.0000	34.2657
Worker	9.3100e-003	6.7400e-003	0.0713	1.9000e-004	0.0193	1.3000e-004	0.0195	5.1400e-003	1.2000e-004	5.2600e-003	0.0000	17.2243	17.2243	4.7000e-004	0.0000	17.2361
Total	0.0148	0.1652	0.1041	5.5000e-004	0.0274	1.0900e-003	0.0284	7.4600e-003	1.0400e-003	8.5000e-003	0.0000	51.4449	51.4449	2.2700e-003	0.0000	51.5017

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3.3 Building Construction - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr												MT/yr			
Off-Road	0.0785	0.8053	0.6185	9.3000e-004		0.0496	0.0496		0.0457	0.0457	0.0000	83.8863	83.8863	0.0265	0.0000	84.5498
Total	0.0785	0.8053	0.6185	9.3000e-004		0.0496	0.0496		0.0457	0.0457	0.0000	83.8863	83.8863	0.0265	0.0000	84.5498

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	5.4500e-003	0.1585	0.0328	3.6000e-004	8.0300e-003	9.6000e-004	8.9900e-003	2.3200e-003	9.2000e-004	3.2400e-003	0.0000	34.2206	34.2206	1.8000e-003	0.0000	34.2657
Worker	9.3100e-003	6.7400e-003	0.0713	1.9000e-004	0.0193	1.3000e-004	0.0195	5.1400e-003	1.2000e-004	5.2600e-003	0.0000	17.2243	17.2243	4.7000e-004	0.0000	17.2361
Total	0.0148	0.1652	0.1041	5.5000e-004	0.0274	1.0900e-003	0.0284	7.4600e-003	1.0400e-003	8.5000e-003	0.0000	51.4449	51.4449	2.2700e-003	0.0000	51.5017

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3.4 Demolition - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0148	0.0000	0.0148	2.2400e-003	0.0000	2.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0405	0.3517	0.2653	4.0000e-004		0.0245	0.0245		0.0234	0.0234	0.0000	35.8400	35.8400	7.0500e-003	0.0000	36.0162	
Total	0.0405	0.3517	0.2653	4.0000e-004	0.0148	0.0245	0.0393	2.2400e-003	0.0234	0.0256	0.0000	35.8400	35.8400	7.0500e-003	0.0000	36.0162	

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	7.8000e-004	0.0236	3.9600e-003	6.0000e-005	1.1400e-003	1.5000e-004	1.2900e-003	3.1000e-004	1.4000e-004	4.6000e-004	0.0000	5.4555	5.4555	2.1000e-004	0.0000	5.4608	
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	1.5900e-003	1.2100e-003	0.0125	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.4894	2.4894	8.0000e-005	0.0000	2.4915	
Total	2.3700e-003	0.0249	0.0165	9.0000e-005	3.7700e-003	1.7000e-004	3.9400e-003	1.0100e-003	1.6000e-004	1.1800e-003	0.0000	7.9449	7.9449	2.9000e-004	0.0000	7.9523	

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3.4 Demolition - 2017**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					0.0148	0.0000	0.0148	2.2400e-003	0.0000	2.2400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0405	0.3517	0.2653	4.0000e-004		0.0245	0.0245		0.0234	0.0234	0.0000	35.8399	35.8399	7.0500e-003	0.0000	36.0161	
Total	0.0405	0.3517	0.2653	4.0000e-004	0.0148	0.0245	0.0393	2.2400e-003	0.0234	0.0256	0.0000	35.8399	35.8399	7.0500e-003	0.0000	36.0161	

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	7.8000e-004	0.0236	3.9600e-003	6.0000e-005	1.1400e-003	1.5000e-004	1.2900e-003	3.1000e-004	1.4000e-004	4.6000e-004	0.0000	5.4555	5.4555	2.1000e-004	0.0000	5.4608	
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	1.5900e-003	1.2100e-003	0.0125	3.0000e-005	2.6300e-003	2.0000e-005	2.6500e-003	7.0000e-004	2.0000e-005	7.2000e-004	0.0000	2.4894	2.4894	8.0000e-005	0.0000	2.4915	
Total	2.3700e-003	0.0249	0.0165	9.0000e-005	3.7700e-003	1.7000e-004	3.9400e-003	1.0100e-003	1.6000e-004	1.1800e-003	0.0000	7.9449	7.9449	2.9000e-004	0.0000	7.9523	

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3.5 Grading - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					9.5300e-003	0.0000	9.5300e-003	4.5200e-003	0.0000	4.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0127	0.1102	0.0831	1.3000e-004		7.6800e-003	7.6800e-003		7.3300e-003	7.3300e-003	0.0000	11.2334	11.2334	2.2100e-003	0.0000	11.2886	
Total	0.0127	0.1102	0.0831	1.3000e-004	9.5300e-003	7.6800e-003	0.0172	4.5200e-003	7.3300e-003	0.0119	0.0000	11.2334	11.2334	2.2100e-003	0.0000	11.2886	

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	4.5000e-004	0.0137	2.3000e-003	3.0000e-005	6.6000e-004	9.0000e-005	7.5000e-004	1.8000e-004	8.0000e-005	2.7000e-004	0.0000	3.1690	3.1690	1.2000e-004	0.0000	3.1721	
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-004	3.8000e-004	3.9200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7803	0.7803	3.0000e-005	0.0000	0.7809	
Total	9.5000e-004	0.0141	6.2200e-003	4.0000e-005	1.4800e-003	1.0000e-004	1.5800e-003	4.0000e-004	9.0000e-005	4.9000e-004	0.0000	3.9493	3.9493	1.5000e-004	0.0000	3.9530	

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3.5 Grading - 2017**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					9.5300e-003	0.0000	9.5300e-003	4.5200e-003	0.0000	4.5200e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	0.0127	0.1102	0.0831	1.3000e-004		7.6800e-003	7.6800e-003		7.3300e-003	7.3300e-003	0.0000	11.2334	11.2334	2.2100e-003	0.0000	11.2886	
Total	0.0127	0.1102	0.0831	1.3000e-004	9.5300e-003	7.6800e-003	0.0172	4.5200e-003	7.3300e-003	0.0119	0.0000	11.2334	11.2334	2.2100e-003	0.0000	11.2886	

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	4.5000e-004	0.0137	2.3000e-003	3.0000e-005	6.6000e-004	9.0000e-005	7.5000e-004	1.8000e-004	8.0000e-005	2.7000e-004	0.0000	3.1690	3.1690	1.2000e-004	0.0000	3.1721	
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-004	3.8000e-004	3.9200e-003	1.0000e-005	8.2000e-004	1.0000e-005	8.3000e-004	2.2000e-004	1.0000e-005	2.2000e-004	0.0000	0.7803	0.7803	3.0000e-005	0.0000	0.7809	
Total	9.5000e-004	0.0141	6.2200e-003	4.0000e-005	1.4800e-003	1.0000e-004	1.5800e-003	4.0000e-004	9.0000e-005	4.9000e-004	0.0000	3.9493	3.9493	1.5000e-004	0.0000	3.9530	

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3.6 Paving - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Off-Road	2.6300e-003	0.0249	0.0184	3.0000e-005		1.5200e-003	1.5200e-003		1.4100e-003	1.4100e-003	0.0000	2.4610	2.4610	6.8000e-004	0.0000	2.4781	
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Total	2.6300e-003	0.0249	0.0184	3.0000e-005		1.5200e-003	1.5200e-003		1.4100e-003	1.4100e-003	0.0000	2.4610	2.4610	6.8000e-004	0.0000	2.4781	

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	2.1000e-004	1.6000e-004	1.6800e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3344	0.3344	1.0000e-005	0.0000	0.3347	
Total	2.1000e-004	1.6000e-004	1.6800e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3344	0.3344	1.0000e-005	0.0000	0.3347	

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3.6 Paving - 2017**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.6300e-003	0.0249	0.0184	3.0000e-005		1.5200e-003	1.5200e-003		1.4100e-003	1.4100e-003	0.0000	2.4610	2.4610	6.8000e-004	0.0000	2.4781
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	2.6300e-003	0.0249	0.0184	3.0000e-005		1.5200e-003	1.5200e-003		1.4100e-003	1.4100e-003	0.0000	2.4610	2.4610	6.8000e-004	0.0000	2.4781

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.6000e-004	1.6800e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3344	0.3344	1.0000e-005	0.0000	0.3347
Total	2.1000e-004	1.6000e-004	1.6800e-003	0.0000	3.5000e-004	0.0000	3.6000e-004	9.0000e-005	0.0000	1.0000e-004	0.0000	0.3344	0.3344	1.0000e-005	0.0000	0.3347

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3.7 Site Preparation - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	tons/yr											MT/yr					
Fugitive Dust					0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Off-Road	2.1300e-003	0.0263	0.0109	2.0000e-005		1.1800e-003	1.1800e-003		1.0900e-003	1.0900e-003	0.0000	2.2669	2.2669	6.9000e-004	0.0000	2.2842	
Total	2.1300e-003	0.0263	0.0109	2.0000e-005	0.0000	1.1800e-003	1.1800e-003	0.0000	1.0900e-003	1.0900e-003	0.0000	2.2669	2.2669	6.9000e-004	0.0000	2.2842	

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	3.0000e-005	8.7000e-004	1.5000e-004	0.0000	4.0000e-005	1.0000e-005	5.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.2006	0.2006	1.0000e-005	0.0000	0.2008	
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	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0929	0.0929	0.0000	0.0000	0.0930	
Total	9.0000e-005	9.1000e-004	6.2000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.2935	0.2935	1.0000e-005	0.0000	0.2937	

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3.7 Site Preparation - 2017**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	2.1300e-003	0.0263	0.0109	2.0000e-005		1.1800e-003	1.1800e-003		1.0900e-003	1.0900e-003	0.0000	2.2669	2.2669	6.9000e-004	0.0000	2.2842	
Total	2.1300e-003	0.0263	0.0109	2.0000e-005	0.0000	1.1800e-003	1.1800e-003	0.0000	1.0900e-003	1.0900e-003	0.0000	2.2669	2.2669	6.9000e-004	0.0000	2.2842	

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	3.0000e-005	8.7000e-004	1.5000e-004	0.0000	4.0000e-005	1.0000e-005	5.0000e-005	1.0000e-005	1.0000e-005	2.0000e-005	0.0000	0.2006	0.2006	1.0000e-005	0.0000	0.2008	
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	6.0000e-005	4.0000e-005	4.7000e-004	0.0000	1.0000e-004	0.0000	1.0000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0929	0.0929	0.0000	0.0000	0.0930	
Total	9.0000e-005	9.1000e-004	6.2000e-004	0.0000	1.4000e-004	1.0000e-005	1.5000e-004	4.0000e-005	1.0000e-005	5.0000e-005	0.0000	0.2935	0.2935	1.0000e-005	0.0000	0.2937	

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.2703	1.6170	1.9200	4.8900e-003	0.2593	5.4100e-003	0.2647	0.0698	5.1000e-003	0.0749	0.0000	450.8008	450.8008	0.0353	0.0000	451.6822
Unmitigated	0.2703	1.6170	1.9200	4.8900e-003	0.2593	5.4100e-003	0.2647	0.0698	5.1000e-003	0.0749	0.0000	450.8008	450.8008	0.0353	0.0000	451.6822

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Hospital	1,220.21	939.61	822.39	697,644	697,644	697,644	697,644
Total	1,220.21	939.61	822.39	697,644	697,644	697,644	697,644

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
Hospital	2.34	1.80	1.80	64.90	16.10	19.00	73	25	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	383.8073	383.8073	0.0190	3.9400e-003	385.4575	
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	390.7687	390.7687	0.0194	4.0100e-003	392.4489	
NaturalGas Mitigated	0.0407	0.3696	0.3105	2.2200e-003		0.0281	0.0281		0.0281	0.0281	0.0000	402.3476	402.3476	7.7100e-003	7.3800e-003	404.7386	
NaturalGas Unmitigated	0.0422	0.3834	0.3220	2.3000e-003		0.0291	0.0291		0.0291	0.0291	0.0000	417.3359	417.3359	8.0000e-003	7.6500e-003	419.8159	

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Hospital	7.82058e+006	0.0422	0.3834	0.3220	2.3000e-003		0.0291	0.0291		0.0291	0.0291	0.0000	417.3359	417.3359	8.0000e-003	7.6500e-003	419.8159
Total		0.0422	0.3834	0.3220	2.3000e-003		0.0291	0.0291		0.0291	0.0291	0.0000	417.3359	417.3359	8.0000e-003	7.6500e-003	419.8159

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					
Hospital	7.53971e+006	0.0407	0.3696	0.3105	2.2200e-003		0.0281	0.0281		0.0281	0.0281	0.0000	402.3476	402.3476	7.7100e-003	7.3800e-003	404.7386
Total		0.0407	0.3696	0.3105	2.2200e-003		0.0281	0.0281		0.0281	0.0281	0.0000	402.3476	402.3476	7.7100e-003	7.3800e-003	404.7386

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

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	1.47403e +006	390.7687	0.0194	4.0100e- 003	392.4489
Total		390.7687	0.0194	4.0100e- 003	392.4489

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Hospital	1.44777e +006	383.8073	0.0190	3.9400e- 003	385.4575
Total		383.8073	0.0190	3.9400e- 003	385.4575

6.0 Area Detail**6.1 Mitigation Measures Area**

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Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 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	0.3764	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003	
Unmitigated	0.4033	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003	

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
SubCategory	tons/yr											MT/yr					
Architectural Coating	0.0428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Consumer Products	0.3605					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Landscaping	8.0000e-005	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003	
Total	0.4033	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003	

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6.2 Area by SubCategory**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0428					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.3335					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	8.0000e-005	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003
Total	0.3764	1.0000e-005	8.5000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	1.6500e-003	1.6500e-003	0.0000	0.0000	1.7600e-003

7.0 Water Detail**7.1 Mitigation Measures Water**

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	22.3351	0.3783	9.1000e-003	34.5057
Unmitigated	22.3351	0.3783	9.1000e-003	34.5057

7.2 Water by Land Use**Unmitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	11.5819 / 2.20607	22.3351	0.3783	9.1000e-003	34.5057
Total		22.3351	0.3783	9.1000e-003	34.5057

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7.2 Water by Land Use**Mitigated**

	Indoor/Out door Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Hospital	11.5819 / 2.20607	22.3351	0.3783	9.1000e- 003	34.5057
Total		22.3351	0.3783	9.1000e- 003	34.5057

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

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	202.3495	11.9585	0.0000	501.3124
Unmitigated	202.3495	11.9585	0.0000	501.3124

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8.2 Waste by Land Use**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	996.84	202.3495	11.9585	0.0000	501.3124
Total		202.3495	11.9585	0.0000	501.3124

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Hospital	996.84	202.3495	11.9585	0.0000	501.3124
Total		202.3495	11.9585	0.0000	501.3124

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
Emergency Generator	1	0.5	100	2206	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary Sources

Unmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	tons/yr										MT/yr					
Emergency Generator - Diesel (750 - 9999 HP)	0.1810	0.8095	0.4615	8.7000e-004		0.0266	0.0266		0.0266	0.0266	0.0000	84.0039	84.0039	0.0118	0.0000	84.2983
Total	0.1810	0.8095	0.4615	8.7000e-004		0.0266	0.0266		0.0266	0.0266	0.0000	84.0039	84.0039	0.0118	0.0000	84.2983

11.0 Vegetation

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Sutter Roseville ED Expansion
Placer County APCD Air District, Summer

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	92.30	1000sqft	0.71	92,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Roseville Electric				
CO2 Intensity (lb/MWhr)	584.45	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity adjusted to reflect progress towards RPS

Land Use - Three-story structure

Construction Phase - Applicant Information

Grading - *

Demolition -

Vehicle Trips - Fehr and Peers Provided VMT

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Mitigation -

Area Mitigation -

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	479.00
tblConstructionPhase	NumDays	100.00	479.00
tblConstructionPhase	NumDays	10.00	67.00
tblConstructionPhase	NumDays	2.00	21.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	5/31/2017	9/12/2019
tblConstructionPhase	PhaseEndDate	5/31/2017	8/16/2019
tblConstructionPhase	PhaseEndDate	5/31/2017	9/1/2017
tblConstructionPhase	PhaseEndDate	5/31/2017	10/9/2017
tblConstructionPhase	PhaseEndDate	5/31/2017	10/16/2017
tblConstructionPhase	PhaseEndDate	5/31/2017	9/8/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	11/12/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	10/17/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	9/9/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	10/10/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	9/2/2017
tblGrading	AcresOfGrading	0.00	3.00
tblGrading	AcresOfGrading	2.50	0.00
tblGrading	MaterialExported	0.00	630.00
tblGrading	MaterialExported	0.00	40.00
tblLandUse	LotAcreage	2.12	0.71
tblProjectCharacteristics	CO2IntensityFactor	793.8	584.45
tblProjectCharacteristics	OperationalYear	2018	2020
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,206.00

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tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	100.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	CC_TL	7.30	1.80
tblVehicleTrips	CNW_TL	7.30	1.80
tblVehicleTrips	CW_TL	9.50	2.34

2.0 Emissions Summary

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	lb/day											lb/day					
2017	3.6755	17.1967	11.9020	0.0221	1.0556	1.0529	1.7961	0.4705	0.9832	1.1765	0.0000	2,242.701	2,242.701	0.4235	0.0000	2,253.289	
2018	3.4118	15.1477	11.3213	0.0220	0.3973	0.8755	1.2728	0.1077	0.8180	0.9257	0.0000	2,212.288	2,212.288	0.4171	0.0000	2,222.716	
2019	3.2279	13.6426	10.9226	0.0219	0.3973	0.7476	1.1450	0.1077	0.6986	0.8062	0.0000	2,180.088	2,180.088	0.4117	0.0000	2,190.382	
Maximum	3.6755	17.1967	11.9020	0.0221	1.0556	1.0529	1.7961	0.4705	0.9832	1.1765	0.0000	2,242.701	2,242.701	0.4235	0.0000	2,253.289	

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Year	lb/day											lb/day					
2017	3.6755	17.1967	11.9020	0.0221	1.0556	1.0529	1.7961	0.4705	0.9832	1.1765	0.0000	2,242.701	2,242.701	0.4235	0.0000	2,253.289	
2018	3.4118	15.1477	11.3213	0.0220	0.3973	0.8755	1.2728	0.1077	0.8180	0.9257	0.0000	2,212.288	2,212.288	0.4171	0.0000	2,222.716	
2019	3.2279	13.6426	10.9226	0.0219	0.3973	0.7476	1.1450	0.1077	0.6986	0.8062	0.0000	2,180.088	2,180.088	0.4117	0.0000	2,190.382	
Maximum	3.6755	17.1967	11.9020	0.0221	1.0556	1.0529	1.7961	0.4705	0.9832	1.1765	0.0000	2,242.701	2,242.701	0.4235	0.0000	2,253.289	

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

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

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	2.2105	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005			0.0216	
Energy	0.2311	2.1006	1.7645	0.0126		0.1597	0.1597	0.1597	0.1597	2,520.7346	2,520.7346	0.0483	0.0462	2,535.7140		
Mobile	2.0470	9.5893	10.7875	0.0310	1.6176	0.0317	1.6493	0.4335	0.0299	0.4633	3,147.1329	3,147.1329	0.2199		3,152.6309	
Stationary	1.8099	8.0946	4.6154	8.7000e-003		0.2663	0.2663	0.2663	0.2663	925.9841	925.9841	0.1298			929.2297	
Total	6.2985	19.7847	17.1768	0.0523	1.6176	0.4577	2.0752	0.4335	0.4558	0.8893	6,593.8717	6,593.8717	0.3981	0.0462	6,617.5961	

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

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	lb/day											lb/day					
Area	2.0629	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005		0.0216		
Energy	0.2228	2.0252	1.7011	0.0122		0.1539	0.1539		0.1539	0.1539	2,430.2047	2,430.2047	0.0466	0.0446	2,444.6462		
Mobile	2.0470	9.5893	10.7875	0.0310	1.6176	0.0317	1.6493	0.4335	0.0299	0.4633	3,147.1329	3,147.1329	0.2199		3,152.6309		
Stationary	1.8099	8.0946	4.6154	8.7000e-003		0.2663	0.2663		0.2663	0.2663	925.9841	925.9841	0.1298		929.2297		
Total	6.1425	19.7092	17.1134	0.0518	1.6176	0.4519	2.0695	0.4335	0.4501	0.8836	6,503.3419	6,503.3419	0.3964	0.0446	6,526.5283		

	ROG	NOx	CO	SO2	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	2.48	0.38	0.37	0.86	0.00	1.25	0.28	0.00	1.26	0.65	0.00	1.37	1.37	0.43	3.59	1.38

3.0 Construction Detail**Construction Phase**

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	11/12/2017	9/12/2019	5	479	
2	Building Construction	Building Construction	10/17/2017	8/16/2019	5	479	
3	Demolition	Demolition	6/1/2017	9/1/2017	5	67	
4	Grading	Grading	9/9/2017	10/9/2017	5	21	
5	Paving	Paving	10/10/2017	10/16/2017	5	5	
6	Site Preparation	Site Preparation	9/2/2017	9/8/2017	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 138,450; Non-Residential Outdoor: 46,150; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	30.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	136.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	79.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	5.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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3.1 Mitigation Measures Construction**3.2 Architectural Coating - 2017**Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	1.7863						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Off-Road	0.3323	2.1850	1.8681	2.9700e-003			0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
Total	2.1186	2.1850	1.8681	2.9700e-003			0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909

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		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
Worker	0.0317	0.0190	0.2490	5.4000e-004	0.0493	3.3000e-004	0.0496	0.0131	3.1000e-004	0.0134	53.8368	53.8368	1.7700e-003			53.8811
Total	0.0317	0.0190	0.2490	5.4000e-004	0.0493	3.3000e-004	0.0496	0.0131	3.1000e-004	0.0134		53.8368	53.8368	1.7700e-003		53.8811

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3.2 Architectural Coating - 2017**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Archit. Coating	1.7863						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Off-Road	0.3323	2.1850	1.8681	2.9700e-003			0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909
Total	2.1186	2.1850	1.8681	2.9700e-003			0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909

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	0.0317	0.0190	0.2490	5.4000e-004	0.0493	3.3000e-004	0.0496	0.0131	3.1000e-004	0.0134			53.8368	53.8368	1.7700e-003		53.8811
Total	0.0317	0.0190	0.2490	5.4000e-004	0.0493	3.3000e-004	0.0496	0.0131	3.1000e-004	0.0134			53.8368	53.8368	1.7700e-003		53.8811

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3.2 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	1.7863						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	2.0849	2.0058	1.8542	2.9700e-003			0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

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		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
Worker	0.0281	0.0165	0.2177	5.3000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134	52.3035	52.3035	1.5500e-003			52.3422
Total	0.0281	0.0165	0.2177	5.3000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134		52.3035	52.3035	1.5500e-003		52.3422

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.2 Architectural Coating - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Archit. Coating	1.7863						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	2.0849	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

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	0.0281	0.0165	0.2177	5.3000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134			52.3035	52.3035	1.5500e-003		52.3422
Total	0.0281	0.0165	0.2177	5.3000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134			52.3035	52.3035	1.5500e-003		52.3422

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.2 Architectural Coating - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Archit. Coating	1.7863						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Off-Road	0.2664	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	2.0527	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.0254	0.0145	0.1955	5.1000e-004	0.0493	3.2000e-004	0.0496	0.0131	2.9000e-004	0.0134			50.7398	50.7398	1.3800e-003		50.7743
Total	0.0254	0.0145	0.1955	5.1000e-004	0.0493	3.2000e-004	0.0496	0.0131	2.9000e-004	0.0134			50.7398	50.7398	1.3800e-003		50.7743

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.2 Architectural Coating - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Archit. Coating	1.7863						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Off-Road	0.2664	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	2.0527	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.0254	0.0145	0.1955	5.1000e-004	0.0493	3.2000e-004	0.0496	0.0131	2.9000e-004	0.0134			50.7398	50.7398	1.3800e-003		50.7743
Total	0.0254	0.0145	0.1955	5.1000e-004	0.0493	3.2000e-004	0.0496	0.0131	2.9000e-004	0.0134			50.7398	50.7398	1.3800e-003		50.7743

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.3 Building Construction - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Off-Road	1.2812	12.7589	8.0700	0.0114		0.8591	0.8591		0.7904	0.7904	1,165.916 4	1,165.916 4	0.3572			1,174.847 3	
Total	1.2812	12.7589	8.0700	0.0114		0.8591	0.8591		0.7904	0.7904	1,165.916 4	1,165.916 4	0.3572			1,174.847 3	

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	0.0000	0.0000	
Vendor	0.0857	2.1389	0.4701	4.5200e-003	0.1016	0.0184	0.1200	0.0293	0.0176	0.0469	472.3168	472.3168	0.0259			472.9645	
Worker	0.1584	0.0949	1.2449	2.7100e-003	0.2464	1.6700e-003	0.2481	0.0654	1.5400e-003	0.0669	269.1837	269.1837	8.8700e-003			269.4054	
Total	0.2441	2.2338	1.7150	7.2300e-003	0.3480	0.0201	0.3681	0.0946	0.0192	0.1138	741.5006	741.5006	0.0348			742.3700	

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.3 Building Construction - 2017**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	1.2812	12.7589	8.0700	0.0114		0.8591	0.8591		0.7904	0.7904	0.0000	1,165.916 4	1,165.916 4	0.3572		1,174.847 3
Total	1.2812	12.7589	8.0700	0.0114		0.8591	0.8591		0.7904	0.7904	0.0000	1,165.916 4	1,165.916 4	0.3572		1,174.847 3

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	0.0000	0.0000
Vendor	0.0857	2.1389	0.4701	4.5200e-003	0.1016	0.0184	0.1200	0.0293	0.0176	0.0469	472.3168	472.3168	0.0259			472.9645
Worker	0.1584	0.0949	1.2449	2.7100e-003	0.2464	1.6700e-003	0.2481	0.0654	1.5400e-003	0.0669	269.1837	269.1837	8.8700e-003			269.4054
Total	0.2441	2.2338	1.7150	7.2300e-003	0.3480	0.0201	0.3681	0.0946	0.0192	0.1138	741.5006	741.5006	0.0348			742.3700

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.3 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	1.0848	11.0316	7.7512	0.0114		0.7087	0.7087		0.6520	0.6520	1,146.532 3	1,146.532 3	0.3569			1,155.455 5
Total	1.0848	11.0316	7.7512	0.0114		0.7087	0.7087		0.6520	0.6520	1,146.532 3	1,146.532 3	0.3569			1,155.455 5

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	0.0000	0.0000
Vendor	0.0738	2.0116	0.4099	4.5000e-003	0.1016	0.0143	0.1159	0.0293	0.0137	0.0429	470.4868	470.4868	0.0242			471.0907
Worker	0.1403	0.0823	1.0883	2.6300e-003	0.2464	1.6200e-003	0.2481	0.0654	1.4900e-003	0.0669	261.5175	261.5175	7.7500e-003			261.7112
Total	0.2140	2.0939	1.4982	7.1300e-003	0.3480	0.0159	0.3640	0.0946	0.0152	0.1098	732.0043	732.0043	0.0319			732.8019

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.3 Building Construction - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0848	11.0316	7.7512	0.0114		0.7087	0.7087		0.6520	0.6520	0.0000	1,146.532 3	1,146.532 3	0.3569		1,155.455 5
Total	1.0848	11.0316	7.7512	0.0114		0.7087	0.7087		0.6520	0.6520	0.0000	1,146.532 3	1,146.532 3	0.3569		1,155.455 5

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	0.0000	0.0000
Vendor	0.0738	2.0116	0.4099	4.5000e-003	0.1016	0.0143	0.1159	0.0293	0.0137	0.0429	470.4868	470.4868	0.0242			471.0907
Worker	0.1403	0.0823	1.0883	2.6300e-003	0.2464	1.6200e-003	0.2481	0.0654	1.4900e-003	0.0669	261.5175	261.5175	7.7500e-003			261.7112
Total	0.2140	2.0939	1.4982	7.1300e-003	0.3480	0.0159	0.3640	0.0946	0.0152	0.1098	732.0043	732.0043	0.0319			732.8019

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.3 Building Construction - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	1,127.669 6	1,127.669 6	0.3568			1,136.589 2
Total	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	1,127.669 6	1,127.669 6	0.3568			1,136.589 2

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	0.0000	0.0000
Vendor	0.0650	1.8997	0.3649	4.4600e-003	0.1016	0.0116	0.1132	0.0293	0.0111	0.0403	466.5320	466.5320	0.0229			467.1047
Worker	0.1272	0.0724	0.9777	2.5500e-003	0.2464	1.6000e-003	0.2480	0.0654	1.4700e-003	0.0668	253.6992	253.6992	6.8900e-003			253.8715
Total	0.1922	1.9720	1.3426	7.0100e-003	0.3480	0.0132	0.3612	0.0946	0.0126	0.1072	720.2312	720.2312	0.0298			720.9762

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.3 Building Construction - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day												lb/day			
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.669	1,127.669	0.3568		1,136.589
Total	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.669	1,127.669	0.3568		1,136.589

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	0.0000	0.0000	
Vendor	0.0650	1.8997	0.3649	4.4600e-003	0.1016	0.0116	0.1132	0.0293	0.0111	0.0403	466.5320	466.5320	0.0229			467.1047	
Worker	0.1272	0.0724	0.9777	2.5500e-003	0.2464	1.6000e-003	0.2480	0.0654	1.4700e-003	0.0668	253.6992	253.6992	6.8900e-003			253.8715	
Total	0.1922	1.9720	1.3426	7.0100e-003	0.3480	0.0132	0.3612	0.0946	0.0126	0.1072			720.2312	720.2312	0.0298		720.9762

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.4 Demolition - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					0.4408	0.0000	0.4408	0.0667	0.0000	0.0667			0.0000			0.0000	
Off-Road	1.2100	10.4978	7.9182	0.0120		0.7318	0.7318		0.6978	0.6978		1,179.307 5	1,179.307 5	0.2319		1,185.104 7	
Total	1.2100	10.4978	7.9182	0.0120	0.4408	0.7318	1.1725	0.0667	0.6978	0.7645		1,179.307 5	1,179.307 5	0.2319		1,185.104 7	

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	0.0229	0.6855	0.1117	1.7300e-003	0.0355	4.4000e-003	0.0399	9.7400e-003	4.2100e-003	0.0139			181.1877	181.1877	6.6400e-003		181.3537
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	0.0528	0.0316	0.4150	9.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.1000e-004	0.0223			89.7279	89.7279	2.9600e-003		89.8018
Total	0.0757	0.7171	0.5267	2.6300e-003	0.1177	4.9600e-003	0.1226	0.0315	4.7200e-003	0.0362			270.9156	270.9156	9.6000e-003		271.1555

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.4 Demolition - 2017**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					0.4408	0.0000	0.4408	0.0667	0.0000	0.0667			0.0000			0.0000	
Off-Road	1.2100	10.4978	7.9182	0.0120		0.7318	0.7318		0.6978	0.6978	0.0000	1,179.307 5	1,179.307 5	0.2319		1,185.104 7	
Total	1.2100	10.4978	7.9182	0.0120	0.4408	0.7318	1.1725	0.0667	0.6978	0.7645	0.0000	1,179.307 5	1,179.307 5	0.2319		1,185.104 7	

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	0.0229	0.6855	0.1117	1.7300e-003	0.0355	4.4000e-003	0.0399	9.7400e-003	4.2100e-003	0.0139			181.1877	181.1877	6.6400e-003		181.3537
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	0.0528	0.0316	0.4150	9.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.1000e-004	0.0223			89.7279	89.7279	2.9600e-003		89.8018
Total	0.0757	0.7171	0.5267	2.6300e-003	0.1177	4.9600e-003	0.1226	0.0315	4.7200e-003	0.0362			270.9156	270.9156	9.6000e-003		271.1555

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.5 Grading - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					0.9077	0.0000	0.9077	0.4307	0.0000	0.4307			0.0000			0.0000	
Off-Road	1.2100	10.4978	7.9182	0.0120		0.7318	0.7318		0.6978	0.6978		1,179.307 5	1,179.307 5	0.2319		1,185.104 7	
Total	1.2100	10.4978	7.9182	0.0120	0.9077	0.7318	1.6394	0.4307	0.6978	1.1284		1,179.307 5	1,179.307 5	0.2319		1,185.104 7	

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	0.0424	1.2705	0.2071	3.2100e-003	0.0658	8.1500e-003	0.0740	0.0180	7.7900e-003	0.0258		335.7936	335.7936	0.0123		336.1012	
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	0.0528	0.0316	0.4150	9.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.1000e-004	0.0223		89.7279	89.7279	2.9600e-003		89.8018	
Total	0.0952	1.3021	0.6220	4.1100e-003	0.1480	8.7100e-003	0.1567	0.0398	8.3000e-003	0.0481		425.5215	425.5215	0.0153		425.9031	

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.5 Grading - 2017**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					0.9077	0.0000	0.9077	0.4307	0.0000	0.4307			0.0000			0.0000	
Off-Road	1.2100	10.4978	7.9182	0.0120		0.7318	0.7318		0.6978	0.6978	0.0000	1,179.307 5	1,179.307 5	0.2319		1,185.104 7	
Total	1.2100	10.4978	7.9182	0.0120	0.9077	0.7318	1.6394	0.4307	0.6978	1.1284	0.0000	1,179.307 5	1,179.307 5	0.2319		1,185.104 7	

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	0.0424	1.2705	0.2071	3.2100e-003	0.0658	8.1500e-003	0.0740	0.0180	7.7900e-003	0.0258		335.7936	335.7936	0.0123		336.1012	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0528	0.0316	0.4150	9.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.1000e-004	0.0223		89.7279	89.7279	2.9600e-003		89.8018	
Total	0.0952	1.3021	0.6220	4.1100e-003	0.1480	8.7100e-003	0.1567	0.0398	8.3000e-003	0.0481		425.5215	425.5215	0.0153		425.9031	

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.6 Paving - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0532	9.9754	7.3425	0.0113		0.6087	0.6087		0.5636	0.5636	1,085.107 1	1,085.107 1	0.3018			1,092.651 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0532	9.9754	7.3425	0.0113		0.6087	0.6087		0.5636	0.5636	1,085.107 1	1,085.107 1	0.3018			1,092.651 5

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0950	0.0569	0.7469	1.6200e-003	0.1479	1.0000e-003	0.1489	0.0392	9.3000e-004	0.0402	161.5102	161.5102	5.3200e-003			161.6433
Total	0.0950	0.0569	0.7469	1.6200e-003	0.1479	1.0000e-003	0.1489	0.0392	9.3000e-004	0.0402	161.5102	161.5102	5.3200e-003			161.6433

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.6 Paving - 2017**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	1.0532	9.9754	7.3425	0.0113		0.6087	0.6087		0.5636	0.5636	0.0000	1,085.107 1	1,085.107 1	0.3018		1,092.651 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0532	9.9754	7.3425	0.0113		0.6087	0.6087		0.5636	0.5636	0.0000	1,085.107 1	1,085.107 1	0.3018		1,092.651 5

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0950	0.0569	0.7469	1.6200e-003	0.1479	1.0000e-003	0.1489	0.0392	9.3000e-004	0.0402		161.5102	161.5102	5.3200e-003		161.6433
Total	0.0950	0.0569	0.7469	1.6200e-003	0.1479	1.0000e-003	0.1489	0.0392	9.3000e-004	0.0402		161.5102	161.5102	5.3200e-003		161.6433

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.7 Site Preparation - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					9.0000e-004	0.0000	9.0000e-004	1.4000e-004	0.0000	1.4000e-004			0.0000			0.0000	
Off-Road	0.8524	10.5148	4.3533	9.7700e-003		0.4726	0.4726		0.4347	0.4347		999.5201	999.5201	0.3063			1,007.1764
Total	0.8524	10.5148	4.3533	9.7700e-003	9.0000e-004	0.4726	0.4735	1.4000e-004	0.4347	0.4349		999.5201	999.5201	0.3063			1,007.1764

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	0.0113	0.3377	0.0550	8.5000e-004	0.0175	2.1700e-003	0.0197	4.8000e-003	2.0700e-003	6.8700e-003		89.2616	89.2616	3.2700e-003			89.3434
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	0.0264	0.0158	0.2075	4.5000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112		44.8640	44.8640	1.4800e-003			44.9009
Total	0.0377	0.3535	0.2625	1.3000e-003	0.0586	2.4500e-003	0.0610	0.0157	2.3300e-003	0.0180		134.1255	134.1255	4.7500e-003			134.2443

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

3.7 Site Preparation - 2017**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					9.0000e-004	0.0000	9.0000e-004	1.4000e-004	0.0000	1.4000e-004			0.0000			0.0000	
Off-Road	0.8524	10.5148	4.3533	9.7700e-003		0.4726	0.4726		0.4347	0.4347	0.0000	999.5201	999.5201	0.3063			1,007.1764
Total	0.8524	10.5148	4.3533	9.7700e-003	9.0000e-004	0.4726	0.4735	1.4000e-004	0.4347	0.4349	0.0000	999.5201	999.5201	0.3063			1,007.1764

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	0.0113	0.3377	0.0550	8.5000e-004	0.0175	2.1700e-003	0.0197	4.8000e-003	2.0700e-003	6.8700e-003			89.2616	89.2616	3.2700e-003		89.3434
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	0.0264	0.0158	0.2075	4.5000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112			44.8640	44.8640	1.4800e-003		44.9009
Total	0.0377	0.3535	0.2625	1.3000e-003	0.0586	2.4500e-003	0.0610	0.0157	2.3300e-003	0.0180			134.1255	134.1255	4.7500e-003		134.2443

4.0 Operational Detail - Mobile

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.0470	9.5893	10.7875	0.0310	1.6176	0.0317	1.6493	0.4335	0.0299	0.4633	3,147.132 9	3,147.132 9	0.2199			3,152.630 9
Unmitigated	2.0470	9.5893	10.7875	0.0310	1.6176	0.0317	1.6493	0.4335	0.0299	0.4633	3,147.132 9	3,147.132 9	0.2199			3,152.630 9

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Hospital	1,220.21	939.61	822.39	697,644		697,644	
Total	1,220.21	939.61	822.39	697,644		697,644	

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
Hospital	2.34	1.80	1.80	64.90	16.10	19.00	73	25	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	0.2228	2.0252	1.7011	0.0122		0.1539	0.1539		0.1539	0.1539	2,430.204	2,430.204	0.0466	0.0446	2,444.646	2
NaturalGas Unmitigated	0.2311	2.1006	1.7645	0.0126		0.1597	0.1597		0.1597	0.1597	2,520.734	2,520.734	0.0483	0.0462	2,535.714	0

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hospital	21426.2	0.2311	2.1006	1.7645	0.0126		0.1597	0.1597		0.1597	0.1597	2,520.734	2,520.734	0.0483	0.0462	2,535.714	0
Total		0.2311	2.1006	1.7645	0.0126		0.1597	0.1597		0.1597	0.1597	2,520.734	2,520.734	0.0483	0.0462	2,535.714	0

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					
Hospital	20.6567	0.2228	2.0252	1.7011	0.0122		0.1539	0.1539		0.1539	0.1539	2,430.204	2,430.204	0.0466	0.0446	2,444.646	2
Total		0.2228	2.0252	1.7011	0.0122		0.1539	0.1539		0.1539	0.1539	2,430.204	2,430.204	0.0466	0.0446	2,444.646	2

6.0 Area Detail**6.1 Mitigation Measures Area**

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	2.0629	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005			0.0216
Unmitigated	2.2105	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005			0.0216

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	0.2344					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Consumer Products	1.9752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Landscaping	8.9000e-004	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005			0.0216
Total	2.2105	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005			0.0216

Sutter Roseville ED Expansion - Placer County APCD Air District, 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	0.2344						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Consumer Products	1.8275						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Landscaping	8.9000e-004	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0202	0.0202	5.0000e-005		0.0216
Total	2.0629	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0202	0.0202	5.0000e-005		0.0216

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**Fire Pumps and Emergency Generators**

Sutter Roseville ED Expansion - Placer County APCD Air District, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	100	2206	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary SourcesUnmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	1.8099	8.0946	4.6154	8.7000e-003			0.2663	0.2663		0.2663	925.9841	925.9841	0.1298			929.2297
Total	1.8099	8.0946	4.6154	8.7000e-003			0.2663	0.2663		0.2663	925.9841	925.9841	0.1298			929.2297

11.0 Vegetation

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

Sutter Roseville ED Expansion
Placer County APCD Air District, Winter

1.0 Project Characteristics**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Hospital	92.30	1000sqft	0.71	92,300.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	74
Climate Zone	2			Operational Year	2020
Utility Company	Roseville Electric				
CO2 Intensity (lb/MWhr)	584.45	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

Project Characteristics - CO2 Intensity adjusted to reflect progress towards RPS

Land Use - Three-story structure

Construction Phase - Applicant Information

Grading - *

Demolition -

Vehicle Trips - Fehr and Peers Provided VMT

Stationary Sources - Emergency Generators and Fire Pumps -

Energy Mitigation -

Area Mitigation -

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	5.00	479.00
tblConstructionPhase	NumDays	100.00	479.00
tblConstructionPhase	NumDays	10.00	67.00
tblConstructionPhase	NumDays	2.00	21.00
tblConstructionPhase	NumDays	1.00	5.00
tblConstructionPhase	PhaseEndDate	5/31/2017	9/12/2019
tblConstructionPhase	PhaseEndDate	5/31/2017	8/16/2019
tblConstructionPhase	PhaseEndDate	5/31/2017	9/1/2017
tblConstructionPhase	PhaseEndDate	5/31/2017	10/9/2017
tblConstructionPhase	PhaseEndDate	5/31/2017	10/16/2017
tblConstructionPhase	PhaseEndDate	5/31/2017	9/8/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	11/12/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	10/17/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	9/9/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	10/10/2017
tblConstructionPhase	PhaseStartDate	6/1/2017	9/2/2017
tblGrading	AcresOfGrading	0.00	3.00
tblGrading	AcresOfGrading	2.50	0.00
tblGrading	MaterialExported	0.00	630.00
tblGrading	MaterialExported	0.00	40.00
tblLandUse	LotAcreage	2.12	0.71
tblProjectCharacteristics	CO2IntensityFactor	793.8	584.45
tblProjectCharacteristics	OperationalYear	2018	2020
tblStationaryGeneratorsPumpsEF	CH4_EF	0.07	0.07
tblStationaryGeneratorsPumpsEF	ROG_EF	2.2480e-003	2.2477e-003
tblStationaryGeneratorsPumpsUse	HorsePowerValue	0.00	2,206.00

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

tblStationaryGeneratorsPumpsUse	HoursPerDay	0.00	0.50
tblStationaryGeneratorsPumpsUse	HoursPerYear	0.00	100.00
tblStationaryGeneratorsPumpsUse	NumberOfEquipment	0.00	1.00
tblVehicleTrips	CC_TL	7.30	1.80
tblVehicleTrips	CNW_TL	7.30	1.80
tblVehicleTrips	CW_TL	9.50	2.34

2.0 Emissions Summary

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

2.1 Overall Construction (Maximum Daily Emission)**Unmitigated Construction**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	3.6753	17.2638	11.8741	0.0216	1.0556	1.0533	1.7962	0.4705	0.9836	1.1767	0.0000	2,192.211 1	2,192.211 1	0.4259	0.0000	2,202.857 4
2018	3.4106	15.2033	11.2878	0.0215	0.3973	0.8758	1.2731	0.1077	0.8183	0.9260	0.0000	2,162.387 4	2,162.387 4	0.4194	0.0000	2,172.872 7
2019	3.2265	13.6897	10.8844	0.0214	0.3973	0.7479	1.1453	0.1077	0.6988	0.8065	0.0000	2,131.198 4	2,131.198 4	0.4140	0.0000	2,141.547 5
Maximum	3.6753	17.2638	11.8741	0.0216	1.0556	1.0533	1.7962	0.4705	0.9836	1.1767	0.0000	2,192.211 1	2,192.211 1	0.4259	0.0000	2,202.857 4

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2017	3.6753	17.2638	11.8741	0.0216	1.0556	1.0533	1.7962	0.4705	0.9836	1.1767	0.0000	2,192.211 1	2,192.211 1	0.4259	0.0000	2,202.857 4
2018	3.4106	15.2033	11.2878	0.0215	0.3973	0.8758	1.2731	0.1077	0.8183	0.9260	0.0000	2,162.387 4	2,162.387 4	0.4194	0.0000	2,172.872 7
2019	3.2265	13.6897	10.8844	0.0214	0.3973	0.7479	1.1453	0.1077	0.6988	0.8065	0.0000	2,131.198 4	2,131.198 4	0.4140	0.0000	2,141.547 5
Maximum	3.6753	17.2638	11.8741	0.0216	1.0556	1.0533	1.7962	0.4705	0.9836	1.1767	0.0000	2,192.211 1	2,192.211 1	0.4259	0.0000	2,202.857 4

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

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

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	2.2105	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005	3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005			0.0216	
Energy	0.2311	2.1006	1.7645	0.0126		0.1597	0.1597	0.1597	0.1597	2,520.7346	2,520.7346	0.0483	0.0462	2,535.7140		
Mobile	1.5488	9.6252	12.8070	0.0283	1.6176	0.0332	1.6508	0.4335	0.0313	0.4648	2,869.9606	2,869.9606	0.2482		2,876.1661	
Stationary	1.8099	8.0946	4.6154	8.7000e-003		0.2663	0.2663	0.2663	0.2663	925.9841	925.9841	0.1298		929.2297		
Total	5.8003	19.8206	19.1963	0.0496	1.6176	0.4591	2.0767	0.4335	0.4572	0.8907	6,316.6995	6,316.6995	0.4264	0.0462	6,341.1313	

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

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	lb/day											lb/day					
Area	2.0629	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005		0.0216		
Energy	0.2228	2.0252	1.7011	0.0122		0.1539	0.1539		0.1539	0.1539	2,430.2047	2,430.2047	0.0466	0.0446	2,444.6462		
Mobile	1.5488	9.6252	12.8070	0.0283	1.6176	0.0332	1.6508	0.4335	0.0313	0.4648	2,869.9606	2,869.9606	0.2482		2,876.1661		
Stationary	1.8099	8.0946	4.6154	8.7000e-003		0.2663	0.2663		0.2663	0.2663	925.9841	925.9841	0.1298		929.2297		
Total	5.6443	19.7451	19.1330	0.0491	1.6176	0.4534	2.0710	0.4335	0.4515	0.8850	6,226.1696	6,226.1696	0.4247	0.0446	6,250.0635		

	ROG	NOx	CO	SO2	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	2.69	0.38	0.33	0.91	0.00	1.25	0.28	0.00	1.26	0.64	0.00	1.43	1.43	0.41	3.59	1.44

3.0 Construction Detail**Construction Phase**

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Architectural Coating	Architectural Coating	11/12/2017	9/12/2019	5	479	
2	Building Construction	Building Construction	10/17/2017	8/16/2019	5	479	
3	Demolition	Demolition	6/1/2017	9/1/2017	5	67	
4	Grading	Grading	9/9/2017	10/9/2017	5	21	
5	Paving	Paving	10/10/2017	10/16/2017	5	5	
6	Site Preparation	Site Preparation	9/2/2017	9/8/2017	5	5	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 3

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 138,450; Non-Residential Outdoor: 46,150; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

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

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	6.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	5	30.00	15.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	4	10.00	0.00	136.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	79.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	5.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.1 Mitigation Measures Construction**3.2 Architectural Coating - 2017****Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Archit. Coating	1.7863						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000	
Off-Road	0.3323	2.1850	1.8681	2.9700e-003			0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909
Total	2.1186	2.1850	1.8681	2.9700e-003			0.1733	0.1733		0.1733	0.1733		281.4481	281.4481	0.0297		282.1909

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		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
Worker	0.0309	0.0238	0.2294	4.8000e-004	0.0493	3.3000e-004	0.0496	0.0131	3.1000e-004	0.0134	47.9470	47.9470	1.6600e-003			47.9884
Total	0.0309	0.0238	0.2294	4.8000e-004	0.0493	3.3000e-004	0.0496	0.0131	3.1000e-004	0.0134		47.9470	47.9470	1.6600e-003		47.9884

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.2 Architectural Coating - 2017**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Archit. Coating	1.7863						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Off-Road	0.3323	2.1850	1.8681	2.9700e-003			0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909
Total	2.1186	2.1850	1.8681	2.9700e-003			0.1733	0.1733		0.1733	0.1733	0.0000	281.4481	281.4481	0.0297		282.1909

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	0.0238	0.2294	4.8000e-004	0.0493	3.3000e-004	0.0496	0.0131	3.1000e-004	0.0134			47.9470	47.9470	1.6600e-003		47.9884
Total	0.0309	0.0238	0.2294	4.8000e-004	0.0493	3.3000e-004	0.0496	0.0131	3.1000e-004	0.0134			47.9470	47.9470	1.6600e-003		47.9884

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.2 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	1.7863						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	2.0849	2.0058	1.8542	2.9700e-003			0.1506	0.1506		0.1506	0.1506		281.4485	281.4485	0.0267		282.1171

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	0.0272	0.0207	0.1984	4.7000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134			46.5705	46.5705	1.4300e-003		46.6063
Total	0.0272	0.0207	0.1984	4.7000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134			46.5705	46.5705	1.4300e-003		46.6063

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.2 Architectural Coating - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Archit. Coating	1.7863						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	2.0849	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

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	0.0272	0.0207	0.1984	4.7000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134			46.5705	46.5705	1.4300e-003		46.6063
Total	0.0272	0.0207	0.1984	4.7000e-004	0.0493	3.2000e-004	0.0496	0.0131	3.0000e-004	0.0134			46.5705	46.5705	1.4300e-003		46.6063

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.2 Architectural Coating - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Archit. Coating	1.7863						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Off-Road	0.2664	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423
Total	2.0527	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288		281.4481	281.4481	0.0238		282.0423

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	0.0246	0.0182	0.1766	4.5000e-004	0.0493	3.2000e-004	0.0496	0.0131	2.9000e-004	0.0134			45.1744	45.1744	1.2600e-003		45.2060
Total	0.0246	0.0182	0.1766	4.5000e-004	0.0493	3.2000e-004	0.0496	0.0131	2.9000e-004	0.0134			45.1744	45.1744	1.2600e-003		45.2060

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.2 Architectural Coating - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Archit. Coating	1.7863						0.0000	0.0000		0.0000	0.0000			0.0000		0.0000	
Off-Road	0.2664	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423
Total	2.0527	1.8354	1.8413	2.9700e-003			0.1288	0.1288		0.1288	0.1288	0.0000	281.4481	281.4481	0.0238		282.0423

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	0.0246	0.0182	0.1766	4.5000e-004	0.0493	3.2000e-004	0.0496	0.0131	2.9000e-004	0.0134			45.1744	45.1744	1.2600e-003		45.2060
Total	0.0246	0.0182	0.1766	4.5000e-004	0.0493	3.2000e-004	0.0496	0.0131	2.9000e-004	0.0134			45.1744	45.1744	1.2600e-003		45.2060

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.3 Building Construction - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day												lb/day			
Off-Road	1.2812	12.7589	8.0700	0.0114		0.8591	0.8591		0.7904	0.7904	1,165.916 4	1,165.916 4	0.3572		1,174.847 3	
Total	1.2812	12.7589	8.0700	0.0114		0.8591	0.8591		0.7904	0.7904	1,165.916 4	1,165.916 4	0.3572		1,174.847 3	

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	0.0000	
Vendor	0.0901	2.1769	0.5594	4.3700e-003	0.1016	0.0188	0.1204	0.0293	0.0180	0.0472	457.1649	457.1649	0.0290		457.8892	
Worker	0.1545	0.1191	1.1472	2.4100e-003	0.2464	1.6700e-003	0.2481	0.0654	1.5400e-003	0.0669	239.7348	239.7348	8.2800e-003		239.9417	
Total	0.2446	2.2960	1.7066	6.7800e-003	0.3480	0.0205	0.3685	0.0946	0.0195	0.1141	696.8997	696.8997	0.0373		697.8309	

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.3 Building Construction - 2017**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	1.2812	12.7589	8.0700	0.0114		0.8591	0.8591		0.7904	0.7904	0.0000	1,165.916 4	1,165.916 4	0.3572		1,174.847 3	
Total	1.2812	12.7589	8.0700	0.0114		0.8591	0.8591		0.7904	0.7904	0.0000	1,165.916 4	1,165.916 4	0.3572		1,174.847 3	

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	0.0000	0.0000	
Vendor	0.0901	2.1769	0.5594	4.3700e-003	0.1016	0.0188	0.1204	0.0293	0.0180	0.0472	457.1649	457.1649	0.0290			457.8892	
Worker	0.1545	0.1191	1.1472	2.4100e-003	0.2464	1.6700e-003	0.2481	0.0654	1.5400e-003	0.0669	239.7348	239.7348	8.2800e-003			239.9417	
Total	0.2446	2.2960	1.7066	6.7800e-003	0.3480	0.0205	0.3685	0.0946	0.0195	0.1141	696.8997	696.8997	0.0373			697.8309	

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.3 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	1.0848	11.0316	7.7512	0.0114		0.7087	0.7087		0.6520	0.6520	1,146.532 3	1,146.532 3	0.3569		1,155.455 5	
Total	1.0848	11.0316	7.7512	0.0114		0.7087	0.7087		0.6520	0.6520	1,146.532 3	1,146.532 3	0.3569		1,155.455 5	

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	0.0000	
Vendor	0.0777	2.0420	0.4919	4.3500e-003	0.1016	0.0146	0.1162	0.0293	0.0140	0.0432	454.9837	454.9837	0.0272		455.6624	
Worker	0.1360	0.1033	0.9921	2.3400e-003	0.2464	1.6200e-003	0.2481	0.0654	1.4900e-003	0.0669	232.8524	232.8524	7.1600e-003		233.0314	
Total	0.2137	2.1453	1.4840	6.6900e-003	0.3480	0.0162	0.3643	0.0946	0.0155	0.1101	687.8361	687.8361	0.0343		688.6938	

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.3 Building Construction - 2018**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day												lb/day			
Off-Road	1.0848	11.0316	7.7512	0.0114		0.7087	0.7087		0.6520	0.6520	0.0000	1,146.532 3	1,146.532 3	0.3569		1,155.455 5
Total	1.0848	11.0316	7.7512	0.0114		0.7087	0.7087		0.6520	0.6520	0.0000	1,146.532 3	1,146.532 3	0.3569		1,155.455 5

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	0.0000	0.0000
Vendor	0.0777	2.0420	0.4919	4.3500e-003	0.1016	0.0146	0.1162	0.0293	0.0140	0.0432	454.9837	454.9837	0.0272			455.6624
Worker	0.1360	0.1033	0.9921	2.3400e-003	0.2464	1.6200e-003	0.2481	0.0654	1.4900e-003	0.0669	232.8524	232.8524	7.1600e-003			233.0314
Total	0.2137	2.1453	1.4840	6.6900e-003	0.3480	0.0162	0.3643	0.0946	0.0155	0.1101	687.8361	687.8361	0.0343			688.6938

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.3 Building Construction - 2019**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day												lb/day			
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	1,127.669 6	1,127.669 6	0.3568		1,136.589 2	
Total	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	1,127.669 6	1,127.669 6	0.3568		1,136.589 2	

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	0.0000	
Vendor	0.0686	1.9247	0.4403	4.3100e-003	0.1016	0.0119	0.1135	0.0293	0.0114	0.0406	451.0346	451.0346	0.0258		451.6801	
Worker	0.1231	0.0908	0.8830	2.2700e-003	0.2464	1.6000e-003	0.2480	0.0654	1.4700e-003	0.0668	225.8718	225.8718	6.3200e-003		226.0299	
Total	0.1916	2.0155	1.3233	6.5800e-003	0.3480	0.0135	0.3615	0.0946	0.0128	0.1074	676.9063	676.9063	0.0321		677.7100	

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.3 Building Construction - 2019**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day												lb/day			
Off-Road	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.669	1,127.669	0.3568		1,136.589
Total	0.9576	9.8207	7.5432	0.0114		0.6054	0.6054		0.5569	0.5569	0.0000	1,127.669	1,127.669	0.3568		1,136.589

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	0.0000	0.0000
Vendor	0.0686	1.9247	0.4403	4.3100e-003	0.1016	0.0119	0.1135	0.0293	0.0114	0.0406	451.0346	451.0346	0.0258			451.6801
Worker	0.1231	0.0908	0.8830	2.2700e-003	0.2464	1.6000e-003	0.2480	0.0654	1.4700e-003	0.0668	225.8718	225.8718	6.3200e-003			226.0299
Total	0.1916	2.0155	1.3233	6.5800e-003	0.3480	0.0135	0.3615	0.0946	0.0128	0.1074	676.9063	676.9063	0.0321			677.7100

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.4 Demolition - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					0.4408	0.0000	0.4408	0.0667	0.0000	0.0667			0.0000			0.0000	
Off-Road	1.2100	10.4978	7.9182	0.0120		0.7318	0.7318		0.6978	0.6978		1,179.307 5	1,179.307 5	0.2319		1,185.104 7	
Total	1.2100	10.4978	7.9182	0.0120	0.4408	0.7318	1.1725	0.0667	0.6978	0.7645		1,179.307 5	1,179.307 5	0.2319		1,185.104 7	

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	0.0237	0.7063	0.1265	1.6900e-003	0.0355	4.4800e-003	0.0400	9.7400e-003	4.2900e-003	0.0140		177.1989	177.1989	7.4000e-003		177.3838	
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	0.0397	0.3824	8.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.1000e-004	0.0223		79.9116	79.9116	2.7600e-003		79.9806	
Total	0.0752	0.7460	0.5089	2.4900e-003	0.1177	5.0400e-003	0.1227	0.0315	4.8000e-003	0.0363		257.1105	257.1105	0.0102		257.3644	

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.4 Demolition - 2017**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					0.4408	0.0000	0.4408	0.0667	0.0000	0.0667			0.0000			0.0000	
Off-Road	1.2100	10.4978	7.9182	0.0120		0.7318	0.7318		0.6978	0.6978	0.0000	1,179.307 5	1,179.307 5	0.2319		1,185.104 7	
Total	1.2100	10.4978	7.9182	0.0120	0.4408	0.7318	1.1725	0.0667	0.6978	0.7645	0.0000	1,179.307 5	1,179.307 5	0.2319		1,185.104 7	

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	0.0237	0.7063	0.1265	1.6900e-003	0.0355	4.4800e-003	0.0400	9.7400e-003	4.2900e-003	0.0140			177.1989	177.1989	7.4000e-003		177.3838
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	0.0397	0.3824	8.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.1000e-004	0.0223			79.9116	79.9116	2.7600e-003		79.9806
Total	0.0752	0.7460	0.5089	2.4900e-003	0.1177	5.0400e-003	0.1227	0.0315	4.8000e-003	0.0363			257.1105	257.1105	0.0102		257.3644

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.5 Grading - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					0.9077	0.0000	0.9077	0.4307	0.0000	0.4307			0.0000			0.0000	
Off-Road	1.2100	10.4978	7.9182	0.0120		0.7318	0.7318		0.6978	0.6978		1,179.307 5	1,179.307 5	0.2319		1,185.104 7	
Total	1.2100	10.4978	7.9182	0.0120	0.9077	0.7318	1.6394	0.4307	0.6978	1.1284		1,179.307 5	1,179.307 5	0.2319		1,185.104 7	

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	0.0439	1.3089	0.2344	3.1300e-003	0.0658	8.3000e-003	0.0741	0.0180	7.9400e-003	0.0260		328.4013	328.4013	0.0137		328.7439	
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	0.0397	0.3824	8.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.1000e-004	0.0223		79.9116	79.9116	2.7600e-003		79.9806	
Total	0.0954	1.3487	0.6168	3.9300e-003	0.1480	8.8600e-003	0.1568	0.0398	8.4500e-003	0.0483		408.3129	408.3129	0.0165		408.7245	

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.5 Grading - 2017**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					0.9077	0.0000	0.9077	0.4307	0.0000	0.4307			0.0000			0.0000	
Off-Road	1.2100	10.4978	7.9182	0.0120		0.7318	0.7318		0.6978	0.6978	0.0000	1,179.307 5	1,179.307 5	0.2319		1,185.104 7	
Total	1.2100	10.4978	7.9182	0.0120	0.9077	0.7318	1.6394	0.4307	0.6978	1.1284	0.0000	1,179.307 5	1,179.307 5	0.2319		1,185.104 7	

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	0.0439	1.3089	0.2344	3.1300e-003	0.0658	8.3000e-003	0.0741	0.0180	7.9400e-003	0.0260		328.4013	328.4013	0.0137		328.7439	
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	
Worker	0.0515	0.0397	0.3824	8.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.1000e-004	0.0223		79.9116	79.9116	2.7600e-003		79.9806	
Total	0.0954	1.3487	0.6168	3.9300e-003	0.1480	8.8600e-003	0.1568	0.0398	8.4500e-003	0.0483		408.3129	408.3129	0.0165		408.7245	

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3.6 Paving - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0532	9.9754	7.3425	0.0113		0.6087	0.6087		0.5636	0.5636	1,085.107 1	1,085.107 1	0.3018			1,092.651 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0532	9.9754	7.3425	0.0113		0.6087	0.6087		0.5636	0.5636	1,085.107 1	1,085.107 1	0.3018			1,092.651 5

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0927	0.0715	0.6883	1.4500e-003	0.1479	1.0000e-003	0.1489	0.0392	9.3000e-004	0.0402	143.8409	143.8409	4.9700e-003			143.9650
Total	0.0927	0.0715	0.6883	1.4500e-003	0.1479	1.0000e-003	0.1489	0.0392	9.3000e-004	0.0402	143.8409	143.8409	4.9700e-003			143.9650

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3.6 Paving - 2017**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	1.0532	9.9754	7.3425	0.0113		0.6087	0.6087		0.5636	0.5636	0.0000	1,085.107 1	1,085.107 1	0.3018		1,092.651 5
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	1.0532	9.9754	7.3425	0.0113		0.6087	0.6087		0.5636	0.5636	0.0000	1,085.107 1	1,085.107 1	0.3018		1,092.651 5

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	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0927	0.0715	0.6883	1.4500e-003	0.1479	1.0000e-003	0.1489	0.0392	9.3000e-004	0.0402		143.8409	143.8409	4.9700e-003		143.9650
Total	0.0927	0.0715	0.6883	1.4500e-003	0.1479	1.0000e-003	0.1489	0.0392	9.3000e-004	0.0402		143.8409	143.8409	4.9700e-003		143.9650

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.7 Site Preparation - 2017**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day											lb/day					
Fugitive Dust					9.0000e-004	0.0000	9.0000e-004	1.4000e-004	0.0000	1.4000e-004			0.0000			0.0000	
Off-Road	0.8524	10.5148	4.3533	9.7700e-003		0.4726	0.4726		0.4347	0.4347		999.5201	999.5201	0.3063			1,007.1764
Total	0.8524	10.5148	4.3533	9.7700e-003	9.0000e-004	0.4726	0.4735	1.4000e-004	0.4347	0.4349		999.5201	999.5201	0.3063			1,007.1764

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	0.0117	0.3480	0.0623	8.3000e-004	0.0175	2.2100e-003	0.0197	4.8000e-003	2.1100e-003	6.9100e-003		87.2965	87.2965	3.6400e-003			87.3876
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	0.0258	0.0199	0.1912	4.0000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112		39.9558	39.9558	1.3800e-003			39.9903
Total	0.0374	0.3678	0.2535	1.2300e-003	0.0586	2.4900e-003	0.0611	0.0157	2.3700e-003	0.0181		127.2523	127.2523	5.0200e-003			127.3779

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

3.7 Site Preparation - 2017**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					9.0000e-004	0.0000	9.0000e-004	1.4000e-004	0.0000	1.4000e-004			0.0000			0.0000	
Off-Road	0.8524	10.5148	4.3533	9.7700e-003		0.4726	0.4726		0.4347	0.4347	0.0000	999.5201	999.5201	0.3063			1,007.1764
Total	0.8524	10.5148	4.3533	9.7700e-003	9.0000e-004	0.4726	0.4735	1.4000e-004	0.4347	0.4349	0.0000	999.5201	999.5201	0.3063			1,007.1764

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	0.0117	0.3480	0.0623	8.3000e-004	0.0175	2.2100e-003	0.0197	4.8000e-003	2.1100e-003	6.9100e-003			87.2965	87.2965	3.6400e-003		87.3876
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	0.0258	0.0199	0.1912	4.0000e-004	0.0411	2.8000e-004	0.0414	0.0109	2.6000e-004	0.0112			39.9558	39.9558	1.3800e-003		39.9903
Total	0.0374	0.3678	0.2535	1.2300e-003	0.0586	2.4900e-003	0.0611	0.0157	2.3700e-003	0.0181			127.2523	127.2523	5.0200e-003		127.3779

4.0 Operational Detail - Mobile

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	1.5488	9.6252	12.8070	0.0283	1.6176	0.0332	1.6508	0.4335	0.0313	0.4648	2,869.960 6	2,869.960 6	0.2482			2,876.166 1
Unmitigated	1.5488	9.6252	12.8070	0.0283	1.6176	0.0332	1.6508	0.4335	0.0313	0.4648	2,869.960 6	2,869.960 6	0.2482			2,876.166 1

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated		Mitigated	
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT	Annual VMT	Annual VMT
Hospital	1,220.21	939.61	822.39	697,644		697,644	
Total	1,220.21	939.61	822.39	697,644		697,644	

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
Hospital	2.34	1.80	1.80	64.90	16.10	19.00	73	25	2

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Hospital	0.489257	0.041257	0.220156	0.132626	0.025790	0.006586	0.027831	0.045583	0.001467	0.001229	0.006102	0.000783	0.001333

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive 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	0.2228	2.0252	1.7011	0.0122		0.1539	0.1539		0.1539	0.1539	2,430.204 7	2,430.204 7	0.0466	0.0446	2,444.646 2	
NaturalGas Unmitigated	0.2311	2.1006	1.7645	0.0126		0.1597	0.1597		0.1597	0.1597	2,520.734 6	2,520.734 6	0.0483	0.0462	2,535.714 0	

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

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

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Hospital	21426.2	0.2311	2.1006	1.7645	0.0126		0.1597	0.1597		0.1597	0.1597	2,520.734	2,520.734	0.0483	0.0462	2,535.714	
Total		0.2311	2.1006	1.7645	0.0126		0.1597	0.1597		0.1597	0.1597	2,520.734	2,520.734	0.0483	0.0462	2,535.714	

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					
Hospital	20.6567	0.2228	2.0252	1.7011	0.0122		0.1539	0.1539		0.1539	0.1539	2,430.204	2,430.204	0.0466	0.0446	2,444.646	
Total		0.2228	2.0252	1.7011	0.0122		0.1539	0.1539		0.1539	0.1539	2,430.204	2,430.204	0.0466	0.0446	2,444.646	

6.0 Area Detail**6.1 Mitigation Measures Area**

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

Use Low VOC Cleaning Supplies

	ROG	NOx	CO	SO2	Fugitive 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	2.0629	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005			0.0216
Unmitigated	2.2105	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005			0.0216

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	0.2344					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Consumer Products	1.9752					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000			0.0000
Landscaping	8.9000e-004	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005			0.0216
Total	2.2105	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005	0.0202	0.0202	5.0000e-005			0.0216

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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	0.2344						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Consumer Products	1.8275						0.0000	0.0000		0.0000	0.0000		0.0000			0.0000
Landscaping	8.9000e-004	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0202	0.0202	5.0000e-005		0.0216
Total	2.0629	9.0000e-005	9.4800e-003	0.0000		3.0000e-005	3.0000e-005		3.0000e-005	3.0000e-005		0.0202	0.0202	5.0000e-005		0.0216

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**Fire Pumps and Emergency Generators**

Sutter Roseville ED Expansion - Placer County APCD Air District, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	1	0.5	100	2206	0.73	Diesel

Boilers

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

User Defined Equipment

Equipment Type	Number

10.1 Stationary SourcesUnmitigated/Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Equipment Type	lb/day										lb/day					
Emergency Generator - Diesel (750 - 9999 HP)	1.8099	8.0946	4.6154	8.7000e-003			0.2663	0.2663		0.2663	925.9841	925.9841	0.1298			929.2297
Total	1.8099	8.0946	4.6154	8.7000e-003			0.2663	0.2663		0.2663	925.9841	925.9841	0.1298			929.2297

11.0 Vegetation