
AIR QUALITY IMPACT ASSESSMENT FOR THE BRANNAN MOUNTAIN WATER STORAGE TANK PROJECT

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Prepared for:

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Introduction

An air quality impact assessment was performed for the Brannan Mountain Water Storage Tank Project (“Project”). Construction and operational activities from any land use project can generate air pollutants and greenhouse gasses. During the project permitting phase, these air emissions must be analyzed for compliance with various state and federal regulations.

The objectives of this assessment were to:

- estimate the daily maximum rates and annual average rates of air pollutants generated by construction and operation of the proposed project;
- to determine if these emissions would cause a significant air quality impact by comparison to established air quality thresholds; and
- identify mitigation measures if project emissions are significant.

Project Description

Willow Creek CSD is proposing to construct and operate a water storage tank in Pressure Zone 1. The proposed storage tank will be constructed in the middle of an unaddressed, 0.5-acre parcel (Assessor Parcel Number 522-492-011-000) that is owned by Willow Creek CSD. The tank will be constructed of bolted steel plates, and will be painted to blend with the surrounding tree colors. The steel tank will be constructed on a concrete ring wall foundation on an excavated and graded level area. In addition, the proposed project includes on-site pipelines, valves (above and below ground), drain lines, storm drain culverts, chain link fencing and gate, and asphalt pavement around the tank.

The final tank size will be determined after several factors are considered, including available funds. Two sizes of steel tank are analyzed in this Initial Study: a 72-foot diameter tank that can store 650,000 gallons of water; and a 60-foot diameter tank that can store 409,000 gallons (37% reduction in volume). The smaller tank fits on the same graded pad with similar on-site pipes and appurtenances, although the smaller tank will have a larger asphalt surface around the perimeter. The smaller tank would cost less to construct than the larger tank. The larger tank is better at achieving project goals. The reduced volume will still provide more storage capacity that moves the water system toward meeting regulatory requirements for storage, will still provide needed resiliency in the northwest part of town, and will help optimize groundwater pumping.

Earthwork is needed to construct the tank at the designed elevation. It will consist of clearing and grubbing existing vegetation, removing about 4,600 cubic yards of cut material in the hill slope, placing and compacting fill material to make a flat area, and hauling about 4,500 cubic yards of export (to an appropriate and permitted off-site disposal area). The existing access road (250 feet in length) between Brannan Mountain Road and the tank site will be widened and paved to a top width of 15 feet. The access road is located within a public utility easement and access easement that is approximately 40 feet wide and the entrance is along Brannan Mountain Road. The public utility easement is on a privately-owned 48-acre parcel (Assessor Parcel Number 522-492-012-000) that is adjacent to the parcel owned by Willow Creek CSD (the tank site).

Also proposed is a new water pipeline that connects the proposed water tank to the existing distribution system located at the intersection of Brannan Mountain Road and Stage Coach Lane. The proposed water pipeline is 12 inches in diameter and will be placed 36 inches below the existing surface of the ground. The pipeline will run for approximately 250 feet from the new tank to Brannan Mountain Road underneath the access road. Then, the pipeline will run for approximately 250 feet along the north shoulder of Brannan Mountain Road (and within the road right-of-way) to the northeast corner of the

intersection of Brannan Mountain Road and Stage Coach Lane, where it will tie in to an existing 8-inch waterline. Disturbed areas will be seeded with native or ornamental vegetation, as appropriate. The total project footprint is about 0.6 acre: 0.5 acre for the tank site and 0.1 acre for the new water pipeline and widened access road.

Air Quality Setting, Regulatory Framework

The U.S. Environmental Protection Agency has established national ambient air quality standards, and the California Air Resources Board has established California ambient air quality standards. California Air Resources Board regulates mobile pollutant sources directly, but delegates regulation of stationary standards to local air districts. California Air Resources Board and local air districts maintain numerous air quality monitoring stations throughout California that continually measure ambient concentrations of major air pollutants. The pollutants of greatest concern are: ozone (O₃); carbon monoxide (CO); nitrogen dioxide and more generally, nitrous oxides (NO₂ and NO_x); sulfur dioxide (SO₂); and particulate matter less than 10 microns and less than 2.5 microns (PM₁₀ and PM_{2.5}).

The project is located within the North Coast Air Basin. The North Coast Air Basin is comprised of three air districts, the North Coast Unified AQMD, the Mendocino County AQMD, and the Northern Sonoma County APCD. The jurisdiction of the North Coast AQMD is Del Norte, Humboldt, and Trinity Counties.

In determining whether a project has significant air quality impacts on the environment, planners typically apply their local air district's thresholds of significance to projects in the review process. However, the District has not formally adopted significance thresholds, but rather utilizes the Best Available Control Technology (BACT) emission rates for stationary sources as defined and listed in the NCUAQMD Rules and Regulations, Rule 110 - New Source Review (NSR) And Prevention of Significant Deterioration (PSD), Section 5.1 - BACT (pages 8-9).

Table 1: NCUAQMD Significance Thresholds, Best Available Control Technology (Rule 110)

Pollutant	Daily (pounds/day)	Annual (tons/year)
CO	500.0	100.0
Fluorides	15.0	3.0
Hydrogen sulfide	50.0	10.0
Lead	3.2	0.6
NOx	50.0	40.0
PM10	80.0	15.0
PM2.5	50.0	10.0
ROGs	50.0	40.0
Reduced sulfur compounds	50.0	10.0
Sulfur oxides	80.0	40.0
Sulfuric acid mist	35.0	7.0
Total reduced sulfur compounds	50.0	10.0

Methodology

The NCUAQMD guidelines were followed for this analysis. Construction emissions and operational emissions were calculated using the NCUAQMD-recommended model—the California Emissions Estimator Model (CalEEMod)®, Version 2016.3.2 (California Air Pollution Control Officers Association, 2017). Model output and reports from CalEEMod are provided in the Appendix. Default values were used unless otherwise indicated. Electronic copies of the input and output files are available on request.

Where guidance was not provided, our air quality assessment methodology followed the

Our analysis also uses guidance prepared by the Sacramento Metropolitan Air Quality Management District (SMAQMD 2015).

This assessment estimated the types and quantities of air emissions associated with construction and operation of the proposed project on both the daily maximum level and annual average level. The following air pollutants are assessed in this analysis:

- Reactive organic gases (ROG)
- Nitrogen oxides (NO_x)
- Carbon monoxide (CO)
- Sulfur oxides (SO_x)
- Particulate matter less than 10 microns in diameter (PM₁₀)
- Particulate matter less than 2.5 microns in diameter (PM_{2.5})

The proposed project does not have the potential to emit toxic air contaminants, so toxic air contaminant emissions were not modeled.

Model Parameters and Assumptions

The following parameters and assumptions were entered into CalEEMod:

- estimated start date of construction = June 1, 2021
- operational year = 2022
- Since no land use category for public utilities exists in CalEEMod, the land use “light industrial” was used.
- Land Use Subtype = General Light Industry
- Lot acreage = 0.5
- Population = 0
- Phasing: no demolition; site preparation = 2 weeks; no grading; building construction = 1 month; paving = 2 days; architectural coatings = 2 days
- It was assumed that cut and fill soil volumes would be balanced on-site but that gravel would be imported
- Operational phase/Stationary Sources: no emergency generator, 200 hours per year assumed

Because specific information about construction equipment is not available at this time, the analysis used the construction equipment defaults assumed in CalEEMod.

Modeling Results / Emissions Estimates

Construction and operational emissions are summarized in the following tables. Copies of the CalEEMod model output are provided in the Appendix.

To magnify any air quality impacts, the model was run using the worst-case scenarios, and emissions estimates are reported here using the unmitigated emissions values.

Since the project does not involve significant demolition or grading activities, fugitive dust is not anticipated to be a significant air pollutant source. The main sources of construction emissions are exhaust from heavy equipment and tailpipe emissions from cars and trucks. In the operational phase, no direct emissions will occur. Electrical consumption will contribute incrementally to greenhouse gas generation.

Table 1: Comparison of Daily Construction Emissions Impacts with Thresholds of Significance

Criteria Pollutants	Project Emissions (pounds/day) (unmitigated)	Threshold (NCUAQMD) (pounds/day)	Significance of Impact
ROG (VOC)	6.05	50	Less than significant
NO _x	8.49	50	Less than significant
CO	7.81	500	Less than significant
SO _x	0.01	80	Less than significant
Total PM ₁₀	65.35	80	Less than significant
Total PM _{2.5}	7.01	50	Less than significant
GHG (as CO _{2e})	1,178	No threshold	Less than significant

Table 2: Comparison of Daily Operational Emissions Impacts with Thresholds of Significance

Criteria Pollutants	Project Emissions (pounds/day) (unmitigated)	Threshold (NCUAQMD) (pounds/day)	Significance of Impact
ROG (VOC)	0.14	50	Less than significant
NO _x	0.13	50	Less than significant
CO	0.29	500	Less than significant
SO _x	> 0.01	80	Less than significant
Exhaust PM ₁₀	10.47	80	Less than significant
Exhaust PM _{2.5}	1.05	50	Less than significant
GHG (as CO _{2e})	73	No threshold	Less than significant

Table 3: Comparison of Annual Operational Emissions Impacts with Thresholds of Significance

Criteria Pollutants	Project Emissions (tons/year)	Threshold (NCUAQMD) (tons/year)	Significance of Impact
ROG (VOC)	0.02	40	Less than significant
NO _x	0.02	40	
CO	0.04	100	Less than significant
SO _x	> 0.01	40	Less than significant
Exhaust PM ₁₀	1.44	15	Less than significant
Exhaust PM _{2.5}	0.14	10	Less than significant
GHG (MT/yr CO _{2e})	10	1,100*	Less than significant

* SMAQMD / BAAQMD threshold used because NCUAQMD has no GHG threshold.

Impact Analysis and Significance Determination for CEQA

This significance determination uses the checklist format in the 2019 CEQA Guidelines. Impact analysis methodology follows the NCUAQMD guidelines, such as *the NCUAQMD Rules & Regulations, Appendix A, Procedures for Environmental Impact Review*.

III. Air Quality.

a) Would the project conflict with, or obstruct implementation of, the applicable air quality plan?

At the state level, there is California's State Implementation Plan, which is the statewide plan to achieve attainment of all federal air quality standards. A project would obstruct implementation of the State Implementation Plan if it contributed significantly to increases in regional levels of housing, population, or traffic.

The proposed project would conflict with, or obstruct implementation of, the Clean Air Act if it violated, or contributed significantly to a violation of, federal ambient air quality standards. The USEPA's General Conformity Rule specifies *de minimis* thresholds for major air pollutants. As shown in Table 4, the proposed project's emissions are less than the *de minimis* thresholds. Thus, the proposed project conforms with the State Implementation Plan for attainment of federal air quality standards and would not contribute significantly to cumulative air quality impacts.

There are no adopted local air quality plans to analyze for conflicts. NCUAQMD does have a Particulate Matter PM₁₀ Attainment Plan draft report. A project would conflict with applicable air quality plans if it generated significant quantities of particulate matter (PM₁₀ or PM_{2.5}), or if it exceeded the project-level thresholds established by NCUAQMD. Air emissions modeling performed for this project demonstrates that the project, in both the construction phase and the operational phase, will not generate significant quantities of particulate matter and does not exceed the project-level thresholds established by NCUAQMD. Furthermore, the proposed project, in both the construction phase and the operational phase, will not generate any odors or toxins. Therefore, implementation of the project will have no impact upon implementation of the applicable air quality plans.

Mitigation Measures

No mitigation is required.

b) Would the project 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?

NCUAQMD has established the project-level thresholds to define substantial contribution for both operational and construction emissions (see Table 1). NCUAQMD does not have adopted thresholds for other air pollutants, so we used thresholds from the nearest applicable air quality management district, primarily the Sacramento Metropolitan Air Quality Management District and Bay Area Air Pollution Control District.

NCUAQMD does not have adopted thresholds for greenhouse gas emissions, but the Sacramento Metropolitan Air Quality Management District and the Bay Area Air Quality Management District have established 1,100 metric tons of carbon dioxide equivalents (MT CO_{2e}) annually for both construction and operational phases as the threshold to determine a significant impact. This threshold was used for this assessment.

A comparison of project emissions, as modeled by CalEEMod, with the thresholds of significance

indicates that project emissions are less than significant for both the construction and operational phases. The project, in both the construction and operational phases, has annual emissions of greenhouse gasses of 10 Metric Tons CO₂e, which is well below the threshold annual quantity of 1,100 Metric Tons CO₂e. Implementation of the project will have a less than significant cumulative impact upon any criteria air pollutant.

Mitigation Measures

No mitigation is required.

c) Would the project expose sensitive receptors to substantial pollutant concentrations?

Those who are sensitive to air pollution consist of children, the elderly, and persons with preexisting respiratory, immune, or cardiovascular illness. A sensitive receptor is typically a location that houses or attracts these sensitive people; examples include hospitals, day care centers, parks, residential areas, convalescent facilities, and schools.

No sensitive receptors exist in the project area. The closest sensitive receptors are residences, the closest of which are about 500 feet from the project boundary to the south. While sensitive receptors do exist in the project vicinity, the project will not emit significant concentrations of air pollutants. The project does not emit odors or toxic substances. Therefore, the project will have a less than significant impact upon sensitive receptors.

Mitigation Measures

No mitigation is required

d) Would the project result in other emissions (such as those leading to odors adversely affecting a substantial number of people?)

Odor impacts on residential areas and other sensitive receptors, such as hospitals, day-care centers, schools, etc. warrant the closest scrutiny, but consideration should also be given to other land uses where people may congregate, such as recreational facilities, worksites, and commercial areas. Two situations create a potential for odor impact. The first occurs when a new odor source is located near an existing sensitive receptor. The second occurs when a new sensitive receptor locates near an existing source of odor.

Implementation of the proposed project will not locate sensitive receptors closer to an odor generator. No sensitive receptors exist in the project area. The closest sensitive receptors are residences, the closest of which are about 500 feet from the project boundary to the south. While sensitive receptors do exist in the project vicinity, the project will not emit significant concentrations of air pollutants. The project does not emit odors or toxic substances. Therefore, the project will have a less than significant impact of odors or other emissions affecting people.

Mitigation Measures

No mitigation is required

VIII. Greenhouse Gas Emissions.**a) Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?**

NCUAQMD does not have adopted thresholds for greenhouse gas emissions, but the Sacramento Metropolitan Air Quality Management District and the Bay Area Air Quality Management District have established 1,100 metric tons of carbon dioxide equivalents (CO₂e) annually for both construction and operational phases as the threshold to determine a significant impact. This threshold was used for this assessment.

A comparison of project emissions, as modeled by CalEEMod, with the thresholds of significance indicates that project emissions are less than significant for both the construction and operational phases. The project, in both the construction and operational phases, has annual emissions of greenhouse gasses of 10 MTCO₂e well below the threshold annual quantity of 1,100 MTCO₂e. Implementation of the project will have a less than significant cumulative impact upon any criteria air pollutant.

b) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

NCUAQMD does not have adopted thresholds for greenhouse gas emissions, and no other regulatory agency limits greenhouse gas emissions in Humboldt County. Therefore, the proposed project cannot conflict with a plan or policy, because none exist. The proposed project is consistent with the thresholds established by the nearest air districts because it has annual emissions of greenhouse gasses below their thresholds.

Mitigation Measures

No mitigation is required

Federal General Conformity Determination

In accordance with the FCAA and the CCAA, CARB designates areas of the state as attainment, nonattainment, or unclassified with respect to applicable standards. An “attainment” designation for an area signifies that pollutant concentrations do not violate the applicable standard in that area. A “nonattainment” designation indicates that a pollutant concentration violated the applicable standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria. The CCAA divides nonattainment status into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

The USEPA and the CARB designate air basins where ambient air quality standards are exceeded as “nonattainment” areas. If standards are met, the area is designated as an “attainment” area. If there is inadequate or inconclusive data to make a definitive attainment designation, they are considered “unclassified.”

The current attainment designations for Humboldt County are shown in the following table. Humboldt County is in attainment or unclassified for all federal criteria pollutants. Federal non-attainment counties are listed by the EPA on the Internet at: <https://www3.epa.gov/airquality/greenbook/ancl.html#CA>. NCUAQMD summarizes the quality of air in their jurisdiction as follows: “*The air in Humboldt, Del Norte and Trinity County is considered to be in "in attainment" of state and federal ambient air quality standards except for the State's 24-hour PM10 standard for Humboldt County only.*” (NCUAQMD website, <http://www.ncuaqmd.org/index.php?page=air.quality>). The following table compares project emissions with the federal *de minimis* and the local air basin thresholds of significance, where available. De minimis tables are provided by the EPA on the Internet: <https://www.epa.gov/general-conformity/de-minimis-tables>. Project emissions are well below the federal *de minimis* levels for all pollutants. Therefore, the project conforms to federal air quality standards.

Table 4. Conformity Determination Summary

Pollutant	Federal Status (Attainment, Nonattainment, etc.)	Non-attainment Rates (marginal, serious, etc.)	De minimis (tons/year)	Threshold of Significance for Project Air Basin (tons/year)	Estimated Project Construction Emissions (tons/year)	Estimated Project Operation Emissions (tons/year)
Ozone (O ₃)	Attainment	serious	50	not yet established	n/a	n/a
Carbon Monoxide (CO)	Attainment	All maintenance areas	100	100	0.29	0.04
Oxides of Nitrogen (NO _x)	Attainment	serious	50	40	0.37	0.02
Reactive Organic Gasses (ROG) or Volatile Organic Compounds (VOC)	Unclassified	serious	50	40	0.05	0.02
Lead (Pb)	Attainment	All nonattainment areas	25	0.6	n/a	n/a
Particulate Matter less than 2.5 microns (PM _{2.5})	Attainment	moderate	100	15	0.14	0.14
		serious	70			
Particulate Matter less than 10 microns (PM ₁₀)	Attainment	moderate	100	10	1.25	1.44
		serious	70			
Sulfur Dioxide (SO ₂)	Attainment	All maintenance areas	100	40	< 0.01	< 0.01

References

California Air Pollution Control Officers Association. 2017. CalEEMod® California Emissions Estimator Model User's Guide, Version 2016.3.2. November 2017. Prepared for California Air Pollution Control Officers Association. Prepared by BREEZE Software, a division of Trinity Consultants, in collaboration with South Coast Air Quality Management District and other California Air Districts.

California Air Resources Board. 2019. Area Designations Maps / State and National. Available on the Internet at <https://www.arb.ca.gov/desig/adm/adm.htm>

Sacramento Metropolitan Air Quality Management District. 2015. CEQA Guide to Air Quality Assessment. Chapter 2 Environmental Review: Thresholds of Significance. Available on the Internet at <http://www.airquality.org/ceqa/cequguideupdate/Ch6ghgFINAL.pdf>.

San Joaquin Valley Air Pollution Control District. 2015 *Guide for Assessing and Mitigating Air Quality Impacts*.

San Joaquin Valley Air Pollution Control District. 2009. *Guidance for Valley Land-Use Agencies in Addressing GHG Emission Impacts for New Projects under CEQA*.

United States Environmental Protection Agency. 2020. National Ambient Air Quality Standards (40 CFR part 50) NAAQS Table (ppm). Available on the Internet at <https://www.epa.gov/criteria-air-pollutants/naqs-table>

United States Environmental Protection Agency. 2020. Federal de minimis levels. Available on the Internet at: <https://www.epa.gov/general-conformity/de-minimis-tables>.

Appendix

CalEEMod Emission Reports

- Daily Emissions Estimates (Summer and Winter)
- Annual Emissions Estimates

WCCSD Tank Project - North Coast Air Basin, Summer

WCCSD Tank Project
North Coast Air Basin, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.00	1000sqft	0.11	5,000.00	0
Other Non-Asphalt Surfaces	0.10	1000sqft	0.00	100.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	93
Climate Zone	1			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

WCCSD Tank Project - North Coast Air Basin, Summer

Project Characteristics -

Land Use -

Construction Phase - Building construction will take less than the default time (3 months).

Grading - Tank site is only 0.5 acre in size.

Vehicle Trips - Operation will not require daily supervision.

Road Dust - Excess cut dirt will be exported by haul trucks; pipeline is partially along paved road.

Energy Use - Electric pumps are not part of this project. The only electricity demands will be for security lighting and monitoring equipment.

Land Use Change -

Stationary Sources - Emergency Generators and Fire Pumps - No emergency generators onsite.

Off-road Equipment - No existing concrete to cut.

Off-road Equipment - Minimal amounts of heavy equipment are needed because just 1 tank will be bolted/welded.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Site requires no real demolition activities; grading and paving are in small areas.

Architectural Coating - No interior painting required.

Area Coating - No interior painting required

Landscape Equipment -

Water And Wastewater - Operation of the project does not consume water

Solid Waste - Negligible waste is generated for water storage tank.

WCCSD Tank Project - North Coast Air Basin, Summer

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	7,500.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	7500	0
tblEnergyUse	LightingElect	1.81	0.10
tblEnergyUse	NT24E	1.85	0.30
tblEnergyUse	NT24NG	0.31	0.00
tblEnergyUse	T24E	0.62	0.10
tblEnergyUse	T24NG	3.20	0.00
tblGrading	MaterialImported	0.00	25.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	55	80
tblSolidWaste	SolidWasteGenerationRate	6.20	0.10
tblTripsAndVMT	WorkerTripNumber	10.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	18.00	4.00
tblVehicleTrips	WD_TR	6.97	1.00
tblVehicleTrips	WD_TR	0.00	1.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00

2.0 Emissions Summary

WCCSD Tank Project - North Coast Air Basin, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1150	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0221	0.1265	0.2697	7.2000e-004	10.4725	9.0000e-004	10.4735	1.0507	8.5000e-004	1.0515		72.5643	72.5643	3.6200e-003		72.6548
Total	0.1371	0.1265	0.2702	7.2000e-004	10.4725	9.0000e-004	10.4735	1.0507	8.5000e-004	1.0515		72.5654	72.5654	3.6200e-003	0.0000	72.6560

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1150	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0221	0.1265	0.2697	7.2000e-004	10.4725	9.0000e-004	10.4735	1.0507	8.5000e-004	1.0515		72.5643	72.5643	3.6200e-003		72.6548
Total	0.1371	0.1265	0.2702	7.2000e-004	10.4725	9.0000e-004	10.4735	1.0507	8.5000e-004	1.0515		72.5654	72.5654	3.6200e-003	0.0000	72.6560

WCCSD Tank Project - North Coast Air Basin, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/12/2020	5	10	
2	Site Preparation	Site Preparation	6/13/2020	6/15/2020	5	1	
3	Grading	Grading	6/16/2020	6/17/2020	5	2	
4	Building Construction	Building Construction	6/18/2020	11/4/2020	5	100	
5	Paving	Paving	11/5/2020	11/11/2020	5	5	
6	Architectural Coating	Architectural Coating	11/12/2020	11/18/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 2,500; Striped Parking Area: 6 (Architectural Coating – sqft)

OffRoad Equipment

WCCSD Tank Project - North Coast Air Basin, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	4.00	0.00	3.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

WCCSD Tank Project - North Coast Air Basin, Summer

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

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	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578

WCCSD Tank Project - North Coast Air Basin, Summer

3.2 Demolition - 2020

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	0.0223	0.0202	0.1807	2.6000e-004	22.2673	2.6000e-004	22.2676	2.2248	2.4000e-004	2.2250		25.6902	25.6902	1.8600e-003			25.7367
Total	0.0223	0.0202	0.1807	2.6000e-004	22.2673	2.6000e-004	22.2676	2.2248	2.4000e-004	2.2250		25.6902	25.6902	1.8600e-003			25.7367

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	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169			1,152.6578
Total	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169			1,152.6578

WCCSD Tank Project - North Coast Air Basin, Summer

3.2 Demolition - 2020

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	0.0223	0.0202	0.1807	2.6000e-004	0.0156	2.6000e-004	0.0158	4.3200e-003	2.4000e-004	4.5600e-003		25.6902	25.6902	1.8600e-003		25.7367
Total	0.0223	0.0202	0.1807	2.6000e-004	0.0156	2.6000e-004	0.0158	4.3200e-003	2.4000e-004	4.5600e-003		25.6902	25.6902	1.8600e-003		25.7367

3.3 Site Preparation - 2020

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658		943.4872	943.4872	0.3051		951.1158

WCCSD Tank Project - North Coast Air Basin, Summer

3.3 Site Preparation - 2020

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	0.0558	0.0504	0.4518	6.5000e-004	55.6683	6.5000e-004	55.6690	5.5619	6.0000e-004	5.5625		64.2254	64.2254	4.6500e-003		64.3416
Total	0.0558	0.0504	0.4518	6.5000e-004	55.6683	6.5000e-004	55.6690	5.5619	6.0000e-004	5.5625		64.2254	64.2254	4.6500e-003		64.3416

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658	0.0000	943.4872	943.4872	0.3051		951.1158

WCCSD Tank Project - North Coast Air Basin, Summer

3.3 Site Preparation - 2020

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	0.0558	0.0504	0.4518	6.5000e-004	0.0389	6.5000e-004	0.0395	0.0108	6.0000e-004	0.0114		64.2254	64.2254	4.6500e-003		64.3416
Total	0.0558	0.0504	0.4518	6.5000e-004	0.0389	6.5000e-004	0.0395	0.0108	6.0000e-004	0.0114		64.2254	64.2254	4.6500e-003		64.3416

3.4 Grading - 2020

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					0.7542	0.0000	0.7542	0.4140	0.0000	0.4140			0.0000			0.0000
Off-Road	0.2921	2.9954	2.2262	3.4000e-003		0.1692	0.1692		0.1557	0.1557		328.9942	328.9942	0.1064		331.6543
Total	0.2921	2.9954	2.2262	3.4000e-003	0.7542	0.1692	0.9234	0.4140	0.1557	0.5697		328.9942	328.9942	0.1064		331.6543

WCCSD Tank Project - North Coast Air Basin, Summer

3.4 Grading - 2020

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	0.0138	0.4650	0.0790	1.2100e-003	19.8849	2.1900e-003	19.8871	1.9875	2.0900e-003	1.9896		127.0076	127.0076	3.6300e-003		127.0984
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	0.0446	0.0404	0.3614	5.2000e-004	44.5347	5.2000e-004	44.5352	4.4495	4.8000e-004	4.4500		51.3803	51.3803	3.7200e-003		51.4733
Total	0.0584	0.5054	0.4404	1.7300e-003	64.4196	2.7100e-003	64.4223	6.4371	2.5700e-003	6.4396		178.3879	178.3879	7.3500e-003		178.5717

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					0.7542	0.0000	0.7542	0.4140	0.0000	0.4140			0.0000			0.0000
Off-Road	0.2921	2.9954	2.2262	3.4000e-003		0.1692	0.1692		0.1557	0.1557	0.0000	328.9942	328.9942	0.1064		331.6543
Total	0.2921	2.9954	2.2262	3.4000e-003	0.7542	0.1692	0.9234	0.4140	0.1557	0.5697	0.0000	328.9942	328.9942	0.1064		331.6543

WCCSD Tank Project - North Coast Air Basin, Summer

3.4 Grading - 2020

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	0.0138	0.4650	0.0790	1.2100e-003	0.0172	2.1900e-003	0.0194	4.9800e-003	2.0900e-003	7.0700e-003		127.0076	127.0076	3.6300e-003		127.0984
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	0.0446	0.0404	0.3614	5.2000e-004	0.0311	5.2000e-004	0.0316	8.6400e-003	4.8000e-004	9.1200e-003		51.3803	51.3803	3.7200e-003		51.4733
Total	0.0584	0.5054	0.4404	1.7300e-003	0.0483	2.7100e-003	0.0511	0.0136	2.5700e-003	0.0162		178.3879	178.3879	7.3500e-003		178.5717

3.5 Building Construction - 2020

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	0.5442	5.7740	4.2226	7.1300e-003		0.3168	0.3168		0.2914	0.2914		691.1865	691.1865	0.2235		696.7750
Total	0.5442	5.7740	4.2226	7.1300e-003		0.3168	0.3168		0.2914	0.2914		691.1865	691.1865	0.2235		696.7750

WCCSD Tank Project - North Coast Air Basin, Summer

3.5 Building Construction - 2020

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	5.5500e-003	0.1245	0.0378	2.7000e-004	4.3750	7.9000e-004	4.3758	0.4374	7.5000e-004	0.4382		27.7264	27.7264	1.4000e-003		27.7613
Worker	0.0223	0.0202	0.1807	2.6000e-004	22.2673	2.6000e-004	22.2676	2.2248	2.4000e-004	2.2250		25.6902	25.6902	1.8600e-003		25.7367
Total	0.0279	0.1447	0.2185	5.3000e-004	26.6424	1.0500e-003	26.6434	2.6622	9.9000e-004	2.6632		53.4166	53.4166	3.2600e-003		53.4980

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	0.5442	5.7740	4.2226	7.1300e-003		0.3168	0.3168		0.2914	0.2914	0.0000	691.1865	691.1865	0.2235		696.7750
Total	0.5442	5.7740	4.2226	7.1300e-003		0.3168	0.3168		0.2914	0.2914	0.0000	691.1865	691.1865	0.2235		696.7750

WCCSD Tank Project - North Coast Air Basin, Summer

3.5 Building Construction - 2020

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	5.5500e-003	0.1245	0.0378	2.7000e-004	4.1600e-003	7.9000e-004	4.9400e-003	1.2800e-003	7.5000e-004	2.0300e-003		27.7264	27.7264	1.4000e-003		27.7613
Worker	0.0223	0.0202	0.1807	2.6000e-004	0.0156	2.6000e-004	0.0158	4.3200e-003	2.4000e-004	4.5600e-003		25.6902	25.6902	1.8600e-003		25.7367
Total	0.0279	0.1447	0.2185	5.3000e-004	0.0197	1.0500e-003	0.0208	5.6000e-003	9.9000e-004	6.5900e-003		53.4166	53.4166	3.2600e-003		53.4980

3.6 Paving - 2020

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	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

WCCSD Tank Project - North Coast Air Basin, Summer

3.6 Paving - 2020

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	0.0446	0.0404	0.3614	5.2000e-004	44.5347	5.2000e-004	44.5352	4.4495	4.8000e-004	4.4500		51.3803	51.3803	3.7200e-003		51.4733
Total	0.0446	0.0404	0.3614	5.2000e-004	44.5347	5.2000e-004	44.5352	4.4495	4.8000e-004	4.4500		51.3803	51.3803	3.7200e-003		51.4733

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	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

WCCSD Tank Project - North Coast Air Basin, Summer

3.6 Paving - 2020

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	0.0446	0.0404	0.3614	5.2000e-004	0.0311	5.2000e-004	0.0316	8.6400e-003	4.8000e-004	9.1200e-003		51.3803	51.3803	3.7200e-003		51.4733
Total	0.0446	0.0404	0.3614	5.2000e-004	0.0311	5.2000e-004	0.0316	8.6400e-003	4.8000e-004	9.1200e-003		51.3803	51.3803	3.7200e-003		51.4733

3.7 Architectural Coating - 2020

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	5.8077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	6.0498	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

WCCSD Tank Project - North Coast Air Basin, Summer

3.7 Architectural Coating - 2020

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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	5.8077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	6.0498	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

WCCSD Tank Project - North Coast Air Basin, Summer

3.7 Architectural Coating - 2020

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

WCCSD Tank Project - North Coast Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0221	0.1265	0.2697	7.2000e-004	10.4725	9.0000e-004	10.4735	1.0507	8.5000e-004	1.0515		72.5643	72.5643	3.6200e-003		72.6548
Unmitigated	0.0221	0.1265	0.2697	7.2000e-004	10.4725	9.0000e-004	10.4735	1.0507	8.5000e-004	1.0515		72.5643	72.5643	3.6200e-003		72.6548

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	5.00	6.60	3.40	19,317	19,317
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	5.00	6.60	3.40	19,317	19,317

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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.515667	0.042980	0.191464	0.127817	0.037823	0.006372	0.015279	0.051140	0.002502	0.001366	0.005405	0.001174	0.001011
Other Non-Asphalt Surfaces	0.515667	0.042980	0.191464	0.127817	0.037823	0.006372	0.015279	0.051140	0.002502	0.001366	0.005405	0.001174	0.001011

WCCSD Tank Project - North Coast Air Basin, Summer

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

WCCSD Tank Project - North Coast Air Basin, 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					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

WCCSD Tank Project - North Coast Air Basin, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1150	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003
Unmitigated	0.1150	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-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	lb/day										lb/day					
Architectural Coating	7.9600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003
Total	0.1151	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003

WCCSD Tank Project - North Coast Air Basin, 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	7.9600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003
Total	0.1151	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003

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

WCCSD Tank Project - North Coast Air Basin, Summer

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	0	100	0.73	

Boilers

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

Equipment Type	Number
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11.0 Vegetation

WCCSD Tank Project - North Coast Air Basin, Winter

WCCSD Tank Project
North Coast Air Basin, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.00	1000sqft	0.11	5,000.00	0
Other Non-Asphalt Surfaces	0.10	1000sqft	0.00	100.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	93
Climate Zone	1			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

WCCSD Tank Project - North Coast Air Basin, Winter

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	7,500.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	7500	0
tblEnergyUse	LightingElect	1.81	0.10
tblEnergyUse	NT24E	1.85	0.30
tblEnergyUse	NT24NG	0.31	0.00
tblEnergyUse	T24E	0.62	0.10
tblEnergyUse	T24NG	3.20	0.00
tblGrading	MaterialImported	0.00	25.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	55	80
tblSolidWaste	SolidWasteGenerationRate	6.20	0.10
tblTripsAndVMT	WorkerTripNumber	10.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	18.00	4.00
tblVehicleTrips	WD_TR	6.97	1.00
tblVehicleTrips	WD_TR	0.00	1.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00

2.0 Emissions Summary

WCCSD Tank Project - North Coast Air Basin, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1150	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0220	0.1343	0.2873	7.0000e-004	10.4725	9.1000e-004	10.4735	1.0507	8.6000e-004	1.0515		70.8143	70.8143	3.7300e-003		70.9076
Total	0.1370	0.1343	0.2878	7.0000e-004	10.4725	9.1000e-004	10.4735	1.0507	8.6000e-004	1.0515		70.8154	70.8154	3.7300e-003	0.0000	70.9088

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.1150	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Mobile	0.0220	0.1343	0.2873	7.0000e-004	10.4725	9.1000e-004	10.4735	1.0507	8.6000e-004	1.0515		70.8143	70.8143	3.7300e-003		70.9076
Total	0.1370	0.1343	0.2878	7.0000e-004	10.4725	9.1000e-004	10.4735	1.0507	8.6000e-004	1.0515		70.8154	70.8154	3.7300e-003	0.0000	70.9088

WCCSD Tank Project - North Coast Air Basin, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/12/2020	5	10	
2	Site Preparation	Site Preparation	6/13/2020	6/15/2020	5	1	
3	Grading	Grading	6/16/2020	6/17/2020	5	2	
4	Building Construction	Building Construction	6/18/2020	11/4/2020	5	100	
5	Paving	Paving	11/5/2020	11/11/2020	5	5	
6	Architectural Coating	Architectural Coating	11/12/2020	11/18/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 2,500; Striped Parking Area: 6 (Architectural Coating – sqft)

OffRoad Equipment

WCCSD Tank Project - North Coast Air Basin, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	4.00	0.00	3.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

WCCSD Tank Project - North Coast Air Basin, Winter

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

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	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457		1,147.2352	1,147.2352	0.2169		1,152.6578

WCCSD Tank Project - North Coast Air Basin, Winter

3.2 Demolition - 2020

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	0.0271	0.0248	0.1886	2.5000e-004	22.2673	2.6000e-004	22.2676	2.2248	2.4000e-004	2.2250		25.0479	25.0479	1.8700e-003		25.0947
Total	0.0271	0.0248	0.1886	2.5000e-004	22.2673	2.6000e-004	22.2676	2.2248	2.4000e-004	2.2250		25.0479	25.0479	1.8700e-003		25.0947

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	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578
Total	0.8674	7.8729	7.6226	0.0120		0.4672	0.4672		0.4457	0.4457	0.0000	1,147.2352	1,147.2352	0.2169		1,152.6578

WCCSD Tank Project - North Coast Air Basin, Winter

3.2 Demolition - 2020

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	0.0271	0.0248	0.1886	2.5000e-004	0.0156	2.6000e-004	0.0158	4.3200e-003	2.4000e-004	4.5600e-003		25.0479	25.0479	1.8700e-003		25.0947
Total	0.0271	0.0248	0.1886	2.5000e-004	0.0156	2.6000e-004	0.0158	4.3200e-003	2.4000e-004	4.5600e-003		25.0479	25.0479	1.8700e-003		25.0947

3.3 Site Preparation - 2020

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085		943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658		943.4872	943.4872	0.3051		951.1158

WCCSD Tank Project - North Coast Air Basin, Winter

3.3 Site Preparation - 2020

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	0.0676	0.0620	0.4714	6.3000e-004	55.6683	6.5000e-004	55.6690	5.5619	6.0000e-004	5.5625		62.6198	62.6198	4.6800e-003		62.7368
Total	0.0676	0.0620	0.4714	6.3000e-004	55.6683	6.5000e-004	55.6690	5.5619	6.0000e-004	5.5625		62.6198	62.6198	4.6800e-003		62.7368

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					0.5303	0.0000	0.5303	0.0573	0.0000	0.0573			0.0000			0.0000
Off-Road	0.6853	8.4307	4.0942	9.7400e-003		0.3353	0.3353		0.3085	0.3085	0.0000	943.4872	943.4872	0.3051		951.1158
Total	0.6853	8.4307	4.0942	9.7400e-003	0.5303	0.3353	0.8656	0.0573	0.3085	0.3658	0.0000	943.4872	943.4872	0.3051		951.1158

WCCSD Tank Project - North Coast Air Basin, Winter

3.3 Site Preparation - 2020

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	0.0676	0.0620	0.4714	6.3000e-004	0.0389	6.5000e-004	0.0395	0.0108	6.0000e-004	0.0114		62.6198	62.6198	4.6800e-003		62.7368
Total	0.0676	0.0620	0.4714	6.3000e-004	0.0389	6.5000e-004	0.0395	0.0108	6.0000e-004	0.0114		62.6198	62.6198	4.6800e-003		62.7368

3.4 Grading - 2020

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					0.7542	0.0000	0.7542	0.4140	0.0000	0.4140			0.0000			0.0000
Off-Road	0.2921	2.9954	2.2262	3.4000e-003		0.1692	0.1692		0.1557	0.1557		328.9942	328.9942	0.1064		331.6543
Total	0.2921	2.9954	2.2262	3.4000e-003	0.7542	0.1692	0.9234	0.4140	0.1557	0.5697		328.9942	328.9942	0.1064		331.6543

WCCSD Tank Project - North Coast Air Basin, Winter

3.4 Grading - 2020

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	0.0143	0.4721	0.0879	1.1900e-003	19.8849	2.2500e-003	19.8872	1.9875	2.1500e-003	1.9897		124.4898	124.4898	4.0400e-003		124.5907
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	0.0541	0.0496	0.3772	5.1000e-004	44.5347	5.2000e-004	44.5352	4.4495	4.8000e-004	4.4500		50.0958	50.0958	3.7500e-003		50.1894
Total	0.0684	0.5217	0.4651	1.7000e-003	64.4196	2.7700e-003	64.4223	6.4371	2.6300e-003	6.4397		174.5856	174.5856	7.7900e-003		174.7802

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					0.7542	0.0000	0.7542	0.4140	0.0000	0.4140			0.0000			0.0000
Off-Road	0.2921	2.9954	2.2262	3.4000e-003		0.1692	0.1692		0.1557	0.1557	0.0000	328.9942	328.9942	0.1064		331.6543
Total	0.2921	2.9954	2.2262	3.4000e-003	0.7542	0.1692	0.9234	0.4140	0.1557	0.5697	0.0000	328.9942	328.9942	0.1064		331.6543

WCCSD Tank Project - North Coast Air Basin, Winter

3.4 Grading - 2020

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	0.0143	0.4721	0.0879	1.1900e-003	0.0172	2.2500e-003	0.0195	4.9800e-003	2.1500e-003	7.1300e-003		124.4898	124.4898	4.0400e-003		124.5907
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	0.0541	0.0496	0.3772	5.1000e-004	0.0311	5.2000e-004	0.0316	8.6400e-003	4.8000e-004	9.1200e-003		50.0958	50.0958	3.7500e-003		50.1894
Total	0.0684	0.5217	0.4651	1.7000e-003	0.0483	2.7700e-003	0.0511	0.0136	2.6300e-003	0.0163		174.5856	174.5856	7.7900e-003		174.7802

3.5 Building Construction - 2020

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	0.5442	5.7740	4.2226	7.1300e-003		0.3168	0.3168		0.2914	0.2914		691.1865	691.1865	0.2235		696.7750
Total	0.5442	5.7740	4.2226	7.1300e-003		0.3168	0.3168		0.2914	0.2914		691.1865	691.1865	0.2235		696.7750

WCCSD Tank Project - North Coast Air Basin, Winter

3.5 Building Construction - 2020

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	5.9600e-003	0.1253	0.0436	2.6000e-004	4.3750	8.1000e-004	4.3759	0.4374	7.8000e-004	0.4382		26.8636	26.8636	1.5500e-003		26.9023
Worker	0.0271	0.0248	0.1886	2.5000e-004	22.2673	2.6000e-004	22.2676	2.2248	2.4000e-004	2.2250		25.0479	25.0479	1.8700e-003		25.0947
Total	0.0330	0.1501	0.2322	5.1000e-004	26.6424	1.0700e-003	26.6434	2.6622	1.0200e-003	2.6632		51.9115	51.9115	3.4200e-003		51.9970

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	0.5442	5.7740	4.2226	7.1300e-003		0.3168	0.3168		0.2914	0.2914	0.0000	691.1865	691.1865	0.2235		696.7750
Total	0.5442	5.7740	4.2226	7.1300e-003		0.3168	0.3168		0.2914	0.2914	0.0000	691.1865	691.1865	0.2235		696.7750

WCCSD Tank Project - North Coast Air Basin, Winter

3.5 Building Construction - 2020

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	5.9600e-003	0.1253	0.0436	2.6000e-004	4.1600e-003	8.1000e-004	4.9700e-003	1.2800e-003	7.8000e-004	2.0600e-003		26.8636	26.8636	1.5500e-003		26.9023
Worker	0.0271	0.0248	0.1886	2.5000e-004	0.0156	2.6000e-004	0.0158	4.3200e-003	2.4000e-004	4.5600e-003		25.0479	25.0479	1.8700e-003		25.0947
Total	0.0330	0.1501	0.2322	5.1000e-004	0.0197	1.0700e-003	0.0208	5.6000e-003	1.0200e-003	6.6200e-003		51.9115	51.9115	3.4200e-003		51.9970

3.6 Paving - 2020

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	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669		1,035.3926	1,035.3926	0.3016		1,042.9323

WCCSD Tank Project - North Coast Air Basin, Winter

3.6 Paving - 2020

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	0.0541	0.0496	0.3772	5.1000e-004	44.5347	5.2000e-004	44.5352	4.4495	4.8000e-004	4.4500		50.0958	50.0958	3.7500e-003		50.1894
Total	0.0541	0.0496	0.3772	5.1000e-004	44.5347	5.2000e-004	44.5352	4.4495	4.8000e-004	4.4500		50.0958	50.0958	3.7500e-003		50.1894

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	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.7716	7.2266	7.1128	0.0113		0.3950	0.3950		0.3669	0.3669	0.0000	1,035.3926	1,035.3926	0.3016		1,042.9323

WCCSD Tank Project - North Coast Air Basin, Winter

3.6 Paving - 2020

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	0.0541	0.0496	0.3772	5.1000e-004	0.0311	5.2000e-004	0.0316	8.6400e-003	4.8000e-004	9.1200e-003		50.0958	50.0958	3.7500e-003		50.1894
Total	0.0541	0.0496	0.3772	5.1000e-004	0.0311	5.2000e-004	0.0316	8.6400e-003	4.8000e-004	9.1200e-003		50.0958	50.0958	3.7500e-003		50.1894

3.7 Architectural Coating - 2020

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	5.8077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928
Total	6.0498	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

WCCSD Tank Project - North Coast Air Basin, Winter

3.7 Architectural Coating - 2020

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

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	5.8077					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.2422	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928
Total	6.0498	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109	0.0000	281.4481	281.4481	0.0218		281.9928

WCCSD Tank Project - North Coast Air Basin, Winter

3.7 Architectural Coating - 2020

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

WCCSD Tank Project - North Coast Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.0220	0.1343	0.2873	7.0000e-004	10.4725	9.1000e-004	10.4735	1.0507	8.6000e-004	1.0515		70.8143	70.8143	3.7300e-003		70.9076
Unmitigated	0.0220	0.1343	0.2873	7.0000e-004	10.4725	9.1000e-004	10.4735	1.0507	8.6000e-004	1.0515		70.8143	70.8143	3.7300e-003		70.9076

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	5.00	6.60	3.40	19,317	19,317
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	5.00	6.60	3.40	19,317	19,317

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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.515667	0.042980	0.191464	0.127817	0.037823	0.006372	0.015279	0.051140	0.002502	0.001366	0.005405	0.001174	0.001011
Other Non-Asphalt Surfaces	0.515667	0.042980	0.191464	0.127817	0.037823	0.006372	0.015279	0.051140	0.002502	0.001366	0.005405	0.001174	0.001011

WCCSD Tank Project - North Coast Air Basin, Winter

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
NaturalGas Unmitigated	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

WCCSD Tank Project - North Coast Air Basin, 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					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

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					
General Light Industry	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000

6.0 Area Detail

6.1 Mitigation Measures Area

WCCSD Tank Project - North Coast Air Basin, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1150	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003
Unmitigated	0.1150	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-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	lb/day										lb/day					
Architectural Coating	7.9600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003
Total	0.1151	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003

WCCSD Tank Project - North Coast Air Basin, Winter

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	7.9600e-003					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.1070					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	5.0000e-005	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003
Total	0.1151	0.0000	5.2000e-004	0.0000		0.0000	0.0000		0.0000	0.0000		1.1200e-003	1.1200e-003	0.0000		1.1900e-003

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

WCCSD Tank Project - North Coast Air Basin, Winter

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type
Emergency Generator	0	0	0	100	0.73	

Boilers

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

Equipment Type	Number
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11.0 Vegetation

WCCSD Tank Project - North Coast Air Basin, Annual

WCCSD Tank Project
North Coast Air Basin, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Light Industry	5.00	1000sqft	0.11	5,000.00	0
Other Non-Asphalt Surfaces	0.10	1000sqft	0.00	100.00	0

1.2 Other Project Characteristics

Urbanization	Rural	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	93
Climate Zone	1			Operational Year	2022
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MWhr)	641.35	CH4 Intensity (lb/MWhr)	0.029	N2O Intensity (lb/MWhr)	0.006

1.3 User Entered Comments & Non-Default Data

WCCSD Tank Project - North Coast Air Basin, Annual

Project Characteristics -

Land Use -

Construction Phase - Building construction will take less than the default time (3 months).

Grading - Tank site is only 0.5 acre in size.

Vehicle Trips - Operation will not require daily supervision.

Road Dust - Excess cut dirt will be exported by haul trucks; pipeline is partially along paved road.

Energy Use - Electric pumps are not part of this project. The only electricity demands will be for security lighting and monitoring equipment.

Land Use Change -

Stationary Sources - Emergency Generators and Fire Pumps - No emergency generators onsite.

Off-road Equipment - No existing concrete to cut.

Off-road Equipment - Minimal amounts of heavy equipment are needed because just 1 tank will be bolted/welded.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Site requires no real demolition activities; grading and paving are in small areas.

Architectural Coating - No interior painting required.

Area Coating - No interior painting required

Landscape Equipment -

Water And Wastewater - Operation of the project does not consume water

Solid Waste - Negligible waste is generated for water storage tank.

WCCSD Tank Project - North Coast Air Basin, Annual

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	7,500.00	0.00
tblArchitecturalCoating	EF_Nonresidential_Interior	250.00	0.00
tblAreaCoating	Area_Nonresidential_Interior	7500	0
tblEnergyUse	LightingElect	1.81	0.10
tblEnergyUse	NT24E	1.85	0.30
tblEnergyUse	NT24NG	0.31	0.00
tblEnergyUse	T24E	0.62	0.10
tblEnergyUse	T24NG	3.20	0.00
tblGrading	MaterialImported	0.00	25.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblProjectCharacteristics	UrbanizationLevel	Urban	Rural
tblRoadDust	RoadPercentPave	55	80
tblSolidWaste	SolidWasteGenerationRate	6.20	0.10
tblTripsAndVMT	WorkerTripNumber	10.00	2.00
tblTripsAndVMT	WorkerTripNumber	5.00	4.00
tblTripsAndVMT	WorkerTripNumber	18.00	4.00
tblVehicleTrips	WD_TR	6.97	1.00
tblVehicleTrips	WD_TR	0.00	1.00
tblWater	IndoorWaterUseRate	1,156,250.00	0.00

2.0 Emissions Summary

WCCSD Tank Project - North Coast Air Basin, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	6-1-2020	8-31-2020	0.2241	0.2241
2	9-1-2020	9-30-2020	0.0695	0.0695
		Highest	0.2241	0.2241

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	0.0210	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Energy	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.7273	0.7273	3.0000e-005	1.0000e-005	0.7301
Mobile	3.0200e-003	0.0178	0.0380	1.0000e-004	1.4436	1.2000e-004	1.4437	0.1448	1.2000e-004	0.1449	0.0000	8.9440	8.9440	4.6000e-004	0.0000	8.9554
Waste						0.0000	0.0000		0.0000	0.0000	0.0203	0.0000	0.0203	1.2000e-003	0.0000	0.0503
Water						0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0240	0.0178	0.0381	1.0000e-004	1.4436	1.2000e-004	1.4437	0.1448	1.2000e-004	0.1449	0.0203	9.6714	9.6917	1.6900e-003	1.0000e-005	9.7359

WCCSD Tank Project - North Coast Air Basin, Annual

2.3 Vegetation

Vegetation

	CO2e
Category	MT
Vegetation Land Change	-33.3000
Total	-33.3000

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	6/1/2020	6/12/2020	5	10	
2	Site Preparation	Site Preparation	6/13/2020	6/15/2020	5	1	
3	Grading	Grading	6/16/2020	6/17/2020	5	2	
4	Building Construction	Building Construction	6/18/2020	11/4/2020	5	100	
5	Paving	Paving	11/5/2020	11/11/2020	5	5	
6	Architectural Coating	Architectural Coating	11/12/2020	11/18/2020	5	5	

Acres of Grading (Site Preparation Phase): 0.5

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

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**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 2,500; Striped Parking Area: 6
(Architectural Coating – sqft)**

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	2	6.00	97	0.37
Site Preparation	Graders	1	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	1	1.00	247	0.40
Grading	Tractors/Loaders/Backhoes	1	6.00	97	0.37
Building Construction	Cranes	1	4.00	231	0.29
Building Construction	Forklifts	1	6.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	1	8.00	97	0.37
Paving	Cement and Mortar Mixers	4	6.00	9	0.56
Paving	Pavers	1	7.00	130	0.42
Paving	Rollers	1	7.00	80	0.38
Paving	Tractors/Loaders/Backhoes	1	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	2.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	2	5.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Grading	2	4.00	0.00	3.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	3	2.00	1.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Paving	7	4.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	0.00	0.00	0.00	16.80	6.60	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2020

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	4.3400e-003	0.0394	0.0381	6.0000e-005		2.3400e-003	2.3400e-003		2.2300e-003	2.2300e-003	0.0000	5.2038	5.2038	9.8000e-004	0.0000	5.2284
Total	4.3400e-003	0.0394	0.0381	6.0000e-005		2.3400e-003	2.3400e-003		2.2300e-003	2.2300e-003	0.0000	5.2038	5.2038	9.8000e-004	0.0000	5.2284

WCCSD Tank Project - North Coast Air Basin, Annual

3.2 Demolition - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	1.1000e-004	9.1000e-004	0.0000	0.0830	0.0000	0.0830	8.2900e-003	0.0000	8.3000e-003	0.0000	0.1147	0.1147	1.0000e-005	0.0000	0.1149
Total	1.2000e-004	1.1000e-004	9.1000e-004	0.0000	0.0830	0.0000	0.0830	8.2900e-003	0.0000	8.3000e-003	0.0000	0.1147	0.1147	1.0000e-005	0.0000	0.1149

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	4.3400e-003	0.0394	0.0381	6.0000e-005		2.3400e-003	2.3400e-003		2.2300e-003	2.2300e-003	0.0000	5.2038	5.2038	9.8000e-004	0.0000	5.2284
Total	4.3400e-003	0.0394	0.0381	6.0000e-005		2.3400e-003	2.3400e-003		2.2300e-003	2.2300e-003	0.0000	5.2038	5.2038	9.8000e-004	0.0000	5.2284

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3.2 Demolition - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	1.1000e-004	9.1000e-004	0.0000	7.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1147	0.1147	1.0000e-005	0.0000	0.1149
Total	1.2000e-004	1.1000e-004	9.1000e-004	0.0000	7.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1147	0.1147	1.0000e-005	0.0000	0.1149

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

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3.3 Site Preparation - 2020

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	3.0000e-005	3.0000e-005	2.3000e-004	0.0000	0.0208	0.0000	0.0208	2.0700e-003	0.0000	2.0700e-003	0.0000	0.0287	0.0287	0.0000	0.0000	0.0287
Total	3.0000e-005	3.0000e-005	2.3000e-004	0.0000	0.0208	0.0000	0.0208	2.0700e-003	0.0000	2.0700e-003	0.0000	0.0287	0.0287	0.0000	0.0000	0.0287

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					2.7000e-004	0.0000	2.7000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.4000e-004	4.2200e-003	2.0500e-003	0.0000		1.7000e-004	1.7000e-004		1.5000e-004	1.5000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314
Total	3.4000e-004	4.2200e-003	2.0500e-003	0.0000	2.7000e-004	1.7000e-004	4.4000e-004	3.0000e-005	1.5000e-004	1.8000e-004	0.0000	0.4280	0.4280	1.4000e-004	0.0000	0.4314

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3.3 Site Preparation - 2020

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	3.0000e-005	3.0000e-005	2.3000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0287	0.0287	0.0000	0.0000	0.0287
Total	3.0000e-005	3.0000e-005	2.3000e-004	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0287	0.0287	0.0000	0.0000	0.0287

3.4 Grading - 2020

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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	3.0000e-003	2.2300e-003	0.0000		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004	0.0000	0.2985	0.2985	1.0000e-004	0.0000	0.3009
Total	2.9000e-004	3.0000e-003	2.2300e-003	0.0000	7.5000e-004	1.7000e-004	9.2000e-004	4.1000e-004	1.6000e-004	5.7000e-004	0.0000	0.2985	0.2985	1.0000e-004	0.0000	0.3009

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3.4 Grading - 2020

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	1.0000e-005	4.7000e-004	8.0000e-005	0.0000	0.0148	0.0000	0.0148	1.4800e-003	0.0000	1.4800e-003	0.0000	0.1143	0.1143	0.0000	0.0000	0.1144
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	0.0332	0.0000	0.0332	3.3200e-003	0.0000	3.3200e-003	0.0000	0.0459	0.0459	0.0000	0.0000	0.0460
Total	6.0000e-005	5.1000e-004	4.5000e-004	0.0000	0.0480	0.0000	0.0480	4.8000e-003	0.0000	4.8000e-003	0.0000	0.1601	0.1601	0.0000	0.0000	0.1603

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					7.5000e-004	0.0000	7.5000e-004	4.1000e-004	0.0000	4.1000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.9000e-004	3.0000e-003	2.2300e-003	0.0000		1.7000e-004	1.7000e-004		1.6000e-004	1.6000e-004	0.0000	0.2985	0.2985	1.0000e-004	0.0000	0.3009
Total	2.9000e-004	3.0000e-003	2.2300e-003	0.0000	7.5000e-004	1.7000e-004	9.2000e-004	4.1000e-004	1.6000e-004	5.7000e-004	0.0000	0.2985	0.2985	1.0000e-004	0.0000	0.3009

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3.4 Grading - 2020

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	1.0000e-005	4.7000e-004	8.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0000	1.0000e-005	0.0000	0.1143	0.1143	0.0000	0.0000	0.1144
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.0000e-005	4.0000e-005	3.7000e-004	0.0000	3.0000e-005	0.0000	3.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0459	0.0459	0.0000	0.0000	0.0460
Total	6.0000e-005	5.1000e-004	4.5000e-004	0.0000	5.0000e-005	0.0000	5.0000e-005	1.0000e-005	0.0000	2.0000e-005	0.0000	0.1601	0.1601	0.0000	0.0000	0.1603

3.5 Building Construction - 2020

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	0.0272	0.2887	0.2111	3.6000e-004		0.0158	0.0158		0.0146	0.0146	0.0000	31.3517	31.3517	0.0101	0.0000	31.6052
Total	0.0272	0.2887	0.2111	3.6000e-004		0.0158	0.0158		0.0146	0.0146	0.0000	31.3517	31.3517	0.0101	0.0000	31.6052

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3.5 Building Construction - 2020

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	2.9000e-004	6.2300e-003	2.0200e-003	1.0000e-005	0.1631	4.0000e-005	0.1631	0.0163	4.0000e-005	0.0164	0.0000	1.2412	1.2412	7.0000e-005	0.0000	1.2429
Worker	1.2100e-003	1.1100e-003	9.1400e-003	1.0000e-005	0.8299	1.0000e-005	0.8299	0.0829	1.0000e-005	0.0830	0.0000	1.1471	1.1471	8.0000e-005	0.0000	1.1492
Total	1.5000e-003	7.3400e-003	0.0112	2.0000e-005	0.9929	5.0000e-005	0.9930	0.0993	5.0000e-005	0.0993	0.0000	2.3883	2.3883	1.5000e-004	0.0000	2.3921

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	0.0272	0.2887	0.2111	3.6000e-004		0.0158	0.0158		0.0146	0.0146	0.0000	31.3517	31.3517	0.0101	0.0000	31.6052
Total	0.0272	0.2887	0.2111	3.6000e-004		0.0158	0.0158		0.0146	0.0146	0.0000	31.3517	31.3517	0.0101	0.0000	31.6052

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3.5 Building Construction - 2020

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	2.9000e-004	6.2300e-003	2.0200e-003	1.0000e-005	2.0000e-004	4.0000e-005	2.4000e-004	6.0000e-005	4.0000e-005	1.0000e-004	0.0000	1.2412	1.2412	7.0000e-005	0.0000	1.2429
Worker	1.2100e-003	1.1100e-003	9.1400e-003	1.0000e-005	7.4000e-004	1.0000e-005	7.5000e-004	2.1000e-004	1.0000e-005	2.2000e-004	0.0000	1.1471	1.1471	8.0000e-005	0.0000	1.1492
Total	1.5000e-003	7.3400e-003	0.0112	2.0000e-005	9.4000e-004	5.0000e-005	9.9000e-004	2.7000e-004	5.0000e-005	3.2000e-004	0.0000	2.3883	2.3883	1.5000e-004	0.0000	2.3921

3.6 Paving - 2020

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	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

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3.6 Paving - 2020

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	1.1000e-004	9.1000e-004	0.0000	0.0830	0.0000	0.0830	8.2900e-003	0.0000	8.3000e-003	0.0000	0.1147	0.1147	1.0000e-005	0.0000	0.1149
Total	1.2000e-004	1.1000e-004	9.1000e-004	0.0000	0.0830	0.0000	0.0830	8.2900e-003	0.0000	8.3000e-003	0.0000	0.1147	0.1147	1.0000e-005	0.0000	0.1149

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	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.9300e-003	0.0181	0.0178	3.0000e-005		9.9000e-004	9.9000e-004		9.2000e-004	9.2000e-004	0.0000	2.3482	2.3482	6.8000e-004	0.0000	2.3653

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3.6 Paving - 2020

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2000e-004	1.1000e-004	9.1000e-004	0.0000	7.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1147	0.1147	1.0000e-005	0.0000	0.1149
Total	1.2000e-004	1.1000e-004	9.1000e-004	0.0000	7.0000e-005	0.0000	8.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.1147	0.1147	1.0000e-005	0.0000	0.1149

3.7 Architectural Coating - 2020

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	0.0145					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0151	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

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3.7 Architectural Coating - 2020

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

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	0.0145					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.1000e-004	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396
Total	0.0151	4.2100e-003	4.5800e-003	1.0000e-005		2.8000e-004	2.8000e-004		2.8000e-004	2.8000e-004	0.0000	0.6383	0.6383	5.0000e-005	0.0000	0.6396

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3.7 Architectural Coating - 2020

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	3.0200e-003	0.0178	0.0380	1.0000e-004	1.4436	1.2000e-004	1.4437	0.1448	1.2000e-004	0.1449	0.0000	8.9440	8.9440	4.6000e-004	0.0000	8.9554
Unmitigated	3.0200e-003	0.0178	0.0380	1.0000e-004	1.4436	1.2000e-004	1.4437	0.1448	1.2000e-004	0.1449	0.0000	8.9440	8.9440	4.6000e-004	0.0000	8.9554

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
General Light Industry	5.00	6.60	3.40	19,317	19,317
Other Non-Asphalt Surfaces	0.00	0.00	0.00		
Total	5.00	6.60	3.40	19,317	19,317

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
General Light Industry	14.70	6.60	6.60	59.00	28.00	13.00	92	5	3
Other Non-Asphalt Surfaces	14.70	6.60	6.60	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
General Light Industry	0.515667	0.042980	0.191464	0.127817	0.037823	0.006372	0.015279	0.051140	0.002502	0.001366	0.005405	0.001174	0.001011
Other Non-Asphalt Surfaces	0.515667	0.042980	0.191464	0.127817	0.037823	0.006372	0.015279	0.051140	0.002502	0.001366	0.005405	0.001174	0.001011

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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			
General Light Industry	2500	0.7273	3.0000e-005	1.0000e-005	0.7301
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.7273	3.0000e-005	1.0000e-005	0.7301

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
General Light Industry	2500	0.7273	3.0000e-005	1.0000e-005	0.7301
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.7273	3.0000e-005	1.0000e-005	0.7301

6.0 Area Detail

6.1 Mitigation Measures Area

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0210	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Unmitigated	0.0210	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

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	1.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Total	0.0210	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

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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	1.4500e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0195					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	0.0000	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004
Total	0.0210	0.0000	5.0000e-005	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	9.0000e-005	9.0000e-005	0.0000	0.0000	1.0000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

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	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	0.0000	0.0000	0.0000	0.0000
Unmitigated	0.0000	0.0000	0.0000	0.0000

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

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7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
General Light Industry	0 / 0	0.0000	0.0000	0.0000	0.0000
Other Non-Asphalt Surfaces	0 / 0	0.0000	0.0000	0.0000	0.0000
Total		0.0000	0.0000	0.0000	0.0000

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	0.0203	1.2000e-003	0.0000	0.0503
Unmitigated	0.0203	1.2000e-003	0.0000	0.0503

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8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.1	0.0203	1.2000e-003	0.0000	0.0503
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0203	1.2000e-003	0.0000	0.0503

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
General Light Industry	0.1	0.0203	1.2000e-003	0.0000	0.0503
Other Non-Asphalt Surfaces	0	0.0000	0.0000	0.0000	0.0000
Total		0.0203	1.2000e-003	0.0000	0.0503

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	0	0	0	100	0.73	

Boilers

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

Equipment Type	Number
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11.0 Vegetation

WCCSD Tank Project - North Coast Air Basin, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT			
Unmitigated	-33.3000	0.0000	0.0000	-33.3000

11.1 Vegetation Land Change

Vegetation Type

	Initial/Final	Total CO2	CH4	N2O	CO2e
	Acres	MT			
Trees	0.4 / 0.1	-33.3000	0.0000	0.0000	-33.3000
Total		-33.3000	0.0000	0.0000	-33.3000