

7-11 Air Quality Analysis
Santa Teresa Boulevard,
San Jose, CA
Air Quality and Health Risk Assessment

Analysis Overview

Criteria emission inventories were prepared for construction and operations of the Project using CalEEMod, version 2016.3.1 with settings for “Convenience Store w/ Fuel Dispensing”. The Project location, size and construction schedule used to support the analysis reflect the project description in the CEQA assessment document for the Project.

Operation trip volumes reflect the traffic analysis that was completed for the project (an increase of 181 trips per day) and the assumption that 25% of the trips would include vehicle fueling at the project site.

For construction activities, default CalEEMod schedules were generally accepted, but slight changes to default equipment inventories and operating schedules were made to reflect circumstances that are unique to the Project, such as additional tank excavation and minimal grading activities. No mitigation measures were assumed relative to the calculation of emissions or to obtain model results, even though best management practices will be applied to construction activities pursuant to local requirements.

CalEEMod was used to quantify diesel PM emissions in support of a health risk assessment for construction activities using AERSCREEN version 16216 to develop conservative pollution dispersion values and HARP2, version 2.0.0.8. Diesel PM_{2.5} emissions were also combined with fugitive construction emissions to determine annual average ambient PM_{2.5} concentrations at the nearest receptor location.

An operations phase toxics inventory from fuel loading and vehicle fueling was also calculated using reference data from CATEF. The resulting annual emissions inventory was entered into the BAAQMD CEQA risk assessment tool to determine the Project’s significance relative to public health.

Air Quality Significance Determination

Results of the analysis indicate that air quality and public health impacts of the Project are expected not to exceed BAAQMD significance thresholds. Expected impacts are summarized in the following tables. Detailed analysis input and output data are included in the attachments to this summary.

Construction Activities

	ROG	NOx	PM10	PM2.5	SOx	CO	CO2e
Project	28.1 lb/day	5.7 lb/day	3.4 lb/day	1.9 lb/day	0.006 lb/day	3.4 lb/day	14.7 MT/yr
Threshold of Significance	54 lb/day	54 lb/day	82 lb/day (Exhaust)	54 lb/day (Exhaust)	NA	NA	NA
Exceed Threshold	NO	NO	NO	NO	NA	NA	NA

Operations

	ROG	NOx	PM10	PM2.5	SOx	CO ¹	CO2e
Project	0.7 lb/day 0.13 ton/yr	0.6 lb/day 0.12 ton/yr	0.2 lb/day 0.04 ton/yr	0.1 lb/day 0.01 ton/yr	<0.01 lb/day < 0.001 ton/yr	1.6 lb/day 0.28 ton/yr 10 cars / hour	150 MT/yr
Threshold of Significance	54 lb/day 10 ton/yr	54 lb/day 10 ton/yr	82 lb/day 15 ton/yr (Exhaust)	54 lb/day 10 ton/yr (Exhaust)	NA	44,000 vehicles / hour screening	10,000 MT/yr
Exceed Threshold	NO	NO	NO	NO	NA	NO	NO

Note:

¹BAAQMD CEQA guideline dated May 2017 indicates a project would result in a less-than-significant impact to localized CO concentrations if the project traffic would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.

Public Health Significance Determination

Construction Activities

	Nearest Residential Cancer Risk	Nearest Residential Non-Cancer Hazard Index	Nearest Worker Cancer Risk	Nearest Worker Non-Cancer Hazard Index	PM2.5 – Annual Average Ambient Concentration at Nearest Sensitive Receptor
Project	2.34E -06	2.54E-03	6.03E-08	4.67E-03	0.29 ug/m ³
Threshold of Significance	1.0E-05	1	1.0E-05	1	0.3 ug/m ³
Exceed Threshold	No	No	No	No	No

Operations

	Total Cancer Risk	Non-Cancer Hazard Index
Project	2.10E-07	1.00E-03
Threshold of Significance	1.0E-05	1
Exceed Threshold	No	No

List of Attachments

Attachment A – Criteria Pollutants and GHG Emissions Inventory

Attachment B – Health Risk Assessment

Attachment C – CalEEmod Output (Annual, Summer, Winter)

Attachment D – AERSCREEN Output

Attachment E – HARP2 RAST Output

**CRITERIA POLLUTANTS AND GHG EMISSIONS INVENTORY
7-11 CONVENIENCE STORE AND 76 RETAIL GAS STATION
6211 SANTA TERESA BLVD., SAN JOSE, CA 95199**

Construction Emissions (Peak Emissions)

Phase	VOC, lbs/day	NOX, lbs/day	CO, lbs/day	SO2, lbs/day	PM10, lbs/day	PM2.5, lbs/day	CO2e Metric tons/year
Summer	28.0557	5.6875	3.446	6.14E-03	3.3712	1.9327	
Winter	28.0559	5.6922	3.4258	6.07E-03	3.3712	1.9327	
Maximum Emissions	28.0559	5.6922	3.446	0.00614	3.3712	1.9327	14.682
BAAQMD Threshold	54	54	None	None	82	54	None
Exceed Significance?	NO	NO	NO	NO	NO	NO	NO

Operational Emissions (Peak Emission)

Phase	VOC, lbs/day	NOX, lbs/day	CO, lbs/day	SO2, lbs/day	PM10, lbs/day	PM2.5, lbs/day	CO2e Metric tons/year
Summer	0.7356	0.6277	1.3168	3.02E-03	0.2096	0.0588	
Winter	0.6975	0.6415	1.5501	2.82E-03	0.2096	0.0588	
Maximum Emissions	0.7356	0.6415	1.5501	0.00302	0.2096	0.0588	150.8834
BAAQMD Threshold	54	54	9 ppm; 20 ppm	None	82	54	10,000
Exceed Significance?	NO	NO	NO	NO	NO	NO	NO

Note: The proposed project would not result in significant impact to localized CO concentrations because the project will meet all the screening criteria stated in BAAQMD CEQA Guideline Page 3.3 to 3.4, such as

1. The propose project is consistent with an applicable congestion management program.
2. The project would not increase traffic volumes at affected intersections to more than 44,000 vehicles per hour.
3. The project traffic would not increase increase traffice volume to more than 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited.

HEALTH RISK ASSESSMENT
7-11 CONVENIENCE STORE AND 76 RETAIL GAS STATION
6211 SANTA TERESA BLVD., SAN JOSE, CA 95199

Health Risk - Constructions

Pollutant	Annual Emission, tons/year	Annual Emissions, lbs/year	Hourly Avg., lbs/hour	Nearest Residential			Nearest Worker		
				Avg. Annual 1-hour Conc., ug/m ³	Cancer Risk	Non Cancer Hazard Index	Avg. Annual 1-hour Conc., ug/m ³	Cancer Risk	Non Cancer Hazard Index
Diesel PM	3.97E-03	7.94	0.00091	0.01314	2.34E-06	2.54E-03	0.02335	6.03E-08	4.67E-03
BAAQMD Threshold: Exceed Significance?				1.00E-05	NO	1	1.00E-05	NO	1

Note:

1. The diesel PM is based on the PM10 emissions from the exhaust of off-road equipment. The emission is modeled using a point source at the middle of the facility with a stack height of 8 feet.
2. The nearest residential receptor is 150 feet from the emission source; the nearest worker receptor is 112 feet from the emission source
3. AERSCREEN was used to estimate the max. 1-hour concentration at the receptors. HARP2 Risk Assessment Stand Alone Tool (RAST) was used to calculate the cancer risk and hazard index.

PM2.5 Ambient Annual Avg. - Constructions

Pollutant	Annual Emission, tons/year	Annual Emissions, lbs/year	Hourly Avg., lbs/hour	Avg. Annual 1-hour Conc. to the Nearest Residential Receptor, ug/m ³
PM2.5 (Exhaust)	3.74E-03	7.48	0.00085	0.0123
PM2.5 (Fugitive)	2.02E-03	4.04	0.00046	0.2824
			Total:	0.2947
BAAQMD Threshold: Exceed Significance?				0.3
				NO

Note:

1. The PM2.5 (exhaust) is modeled using a point source at the middle of the facility with a stack height of 8 feet. The nearest receptor for this model is 150 feet from the emission source.
2. The PM2.5 (fugitive) is modeled using an area source using the lot size of 20,100 ft². The nearest receptor for this model is 144 feet from the emission source.

**HEALTH RISK ASSESSMENT
7-11 CONVENIENCE STORE AND 76 RETAIL GAS STATION
6211 SANTA TERESA BLVD., SAN JOSE, CA 95199**

Health Risk - Operations

Fuel Dispensing Activities

Daily trip increase	181	cars
% of refueling	25.00%	
Daily trip increase for refueling	46	cars
Avg. fuel tank capacity per car	20	gallons

Toxic Air Contaminants (TAC)	Increase fuel throughput, gal/day	Controlled Emission Factor, lbs/1,000 gallons	Daily Emissions, lbs/day	Annual Emissions, lbs/year	Total Cancer Risk	Non Cancer Hazard Index
Benzene	920	0.01005	0.009246	3.37479	2.10E-07	1.00E-03
Naphthalene	920	0.001407	0.00129444	0.4724706		
BAAQMD Threshold:					1.00E-05	1
Exceed Significance?					NO	NO

Note:

1. The TAC emission factors are based on CARB emission factors for gasoline service stations with underground storage tanks.
2. Total cancer risk and chronic hazard Index was estimated using BAAQMD Risk and Hazards Emissions Screening Spreadsheet (Beta Version).
3. Acute hazard index was estimated using AERSCREEN and HARP2 RAST. The nearest receptor for this model is 144 feet from the emission source.

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

7-11 Convenience and 76 Retail Fuel Stations
Santa Clara County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market With Gas Pumps	20.46	1000sqft	0.47	20,460.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use -

Construction Phase - Revised construction period.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Revise based on the project type

Off-road Equipment - Revise

Off-road Equipment - Revise based on the project

Off-road Equipment - Revise

Off-road Equipment - Revise no site preparation for this project

Demolition -

Grading - Estimated Acres Graded

Architectural Coating - Coating area consist of 7-11 store and canopy of the gas stations

Vehicle Trips - Based on additional 181 trips per day and land size of 20.46 (1,000 ft2).

Construction Off-road Equipment Mitigation - Revise Tiers

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	10,230.00	6,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	30,690.00	3,000.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	5.00	2.00
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	NumDays	5.00	1.00
tblGrading	AcresOfGrading	0.00	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	2.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	4.00	0.50
tblOffRoadEquipment	UsageHours	6.00	2.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	18.00
tblVehicleTrips	ST_TR	1,448.33	8.85
tblVehicleTrips	SU_TR	1,182.08	8.85
tblVehicleTrips	WD_TR	845.60	8.85

2.0 Emissions Summary

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	1-1-2020	3-31-2020	0.0636	0.0636
2	4-1-2020	6-30-2020	0.0766	0.0766
		Highest	0.0766	0.0766

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	0.0906	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.7000e-004	3.7000e-004	0.0000	0.0000	3.9000e-004
Energy	2.6000e-004	2.3900e-003	2.0100e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	67.7735	67.7735	3.0000e-003	6.6000e-004	68.0443
Mobile	0.0365	0.1136	0.2540	5.1000e-004	0.0361	5.7000e-004	0.0367	9.6700e-003	5.3000e-004	0.0102	0.0000	46.4420	46.4420	2.6400e-003	0.0000	46.5080
Waste						0.0000	0.0000		0.0000	0.0000	12.4819	0.0000	12.4819	0.7377	0.0000	30.9234
Water						0.0000	0.0000		0.0000	0.0000	0.4808	3.3314	3.8122	0.0495	1.2000e-003	5.4073
Total	0.1274	0.1160	0.2562	5.2000e-004	0.0361	7.5000e-004	0.0369	9.6700e-003	7.1000e-004	0.0104	12.9627	117.5472	130.5099	0.7928	1.8600e-003	150.8834

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.0906	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.7000e-004	3.7000e-004	0.0000	0.0000	3.9000e-004
Energy	2.6000e-004	2.3900e-003	2.0100e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	67.7735	67.7735	3.0000e-003	6.6000e-004	68.0443
Mobile	0.0365	0.1136	0.2540	5.1000e-004	0.0361	5.7000e-004	0.0367	9.6700e-003	5.3000e-004	0.0102	0.0000	46.4420	46.4420	2.6400e-003	0.0000	46.5080
Waste						0.0000	0.0000		0.0000	0.0000	12.4819	0.0000	12.4819	0.7377	0.0000	30.9234
Water						0.0000	0.0000		0.0000	0.0000	0.4808	3.3314	3.8122	0.0495	1.2000e-003	5.4073
Total	0.1274	0.1160	0.2562	5.2000e-004	0.0361	7.5000e-004	0.0369	9.6700e-003	7.1000e-004	0.0104	12.9627	117.5472	130.5099	0.7928	1.8600e-003	150.8834

	ROG	NOx	CO	SO2	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

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/14/2020	5	10	
2	Site Preparation	Site Preparation	1/15/2020	1/15/2020	5	1	
3	Grading	Grading	1/16/2020	1/16/2020	5	1	
4	Building Construction	Building Construction	1/17/2020	6/4/2020	5	100	
5	Paving	Paving	6/5/2020	6/5/2020	5	1	
6	Architectural Coating	Architectural Coating	6/6/2020	6/9/2020	5	2	

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: 3,000; Non-Residential Outdoor: 6,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	3.00	81	0.73
Demolition	Cranes	1	0.50	231	0.29
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	1	4.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Cement and Mortar Mixers	2	3.00	9	0.56
Building Construction	Cranes	1	0.50	231	0.29
Building Construction	Forklifts	1	2.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Cement and Mortar Mixers	1	2.00	9	0.56
Paving	Pavers	1	3.00	130	0.42
Paving	Rollers	1	3.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	7.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

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	2.1200e-003	0.0202	0.0159	3.0000e-005		1.1200e-003	1.1200e-003		1.0600e-003	1.0600e-003	0.0000	2.3178	2.3178	4.9000e-004	0.0000	2.3299
Total	2.1200e-003	0.0202	0.0159	3.0000e-005		1.1200e-003	1.1200e-003		1.0600e-003	1.0600e-003	0.0000	2.3178	2.3178	4.9000e-004	0.0000	2.3299

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3401	0.3401	1.0000e-005	0.0000	0.3403
Total	1.7000e-004	1.2000e-004	1.2500e-003	0.0000	4.0000e-004	0.0000	4.0000e-004	1.1000e-004	0.0000	1.1000e-004	0.0000	0.3401	0.3401	1.0000e-005	0.0000	0.3403

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	2.1200e-003	0.0202	0.0159	3.0000e-005		1.1200e-003	1.1200e-003		1.0600e-003	1.0600e-003	0.0000	2.3177	2.3177	4.9000e-004	0.0000	2.3299
Total	2.1200e-003	0.0202	0.0159	3.0000e-005		1.1200e-003	1.1200e-003		1.0600e-003	1.0600e-003	0.0000	2.3177	2.3177	4.9000e-004	0.0000	2.3299

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

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	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0170	0.0170	0.0000	0.0000	0.0170
Total	1.0000e-005	1.0000e-005	6.0000e-005	0.0000	2.0000e-005	0.0000	2.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0170	0.0170	0.0000	0.0000	0.0170

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					1.5100e-003	0.0000	1.5100e-003	8.3000e-004	0.0000	8.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	2.8300e-003	1.0300e-003	0.0000		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.1876	0.1876	6.0000e-005	0.0000	0.1892
Total	2.7000e-004	2.8300e-003	1.0300e-003	0.0000	1.5100e-003	1.4000e-004	1.6500e-003	8.3000e-004	1.3000e-004	9.6000e-004	0.0000	0.1876	0.1876	6.0000e-005	0.0000	0.1892

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0340	0.0340	0.0000	0.0000	0.0340
Total	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0340	0.0340	0.0000	0.0000	0.0340

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5100e-003	0.0000	1.5100e-003	8.3000e-004	0.0000	8.3000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.7000e-004	2.8300e-003	1.0300e-003	0.0000		1.4000e-004	1.4000e-004		1.3000e-004	1.3000e-004	0.0000	0.1876	0.1876	6.0000e-005	0.0000	0.1892
Total	2.7000e-004	2.8300e-003	1.0300e-003	0.0000	1.5100e-003	1.4000e-004	1.6500e-003	8.3000e-004	1.3000e-004	9.6000e-004	0.0000	0.1876	0.1876	6.0000e-005	0.0000	0.1892

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

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	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0340	0.0340	0.0000	0.0000	0.0340
Total	2.0000e-005	1.0000e-005	1.3000e-004	0.0000	4.0000e-005	0.0000	4.0000e-005	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0340	0.0340	0.0000	0.0000	0.0340

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	5.4200e-003	0.0469	0.0329	6.0000e-005		2.4400e-003	2.4400e-003		2.2900e-003	2.2900e-003	0.0000	4.9813	4.9813	1.2300e-003	0.0000	5.0122
Total	5.4200e-003	0.0469	0.0329	6.0000e-005		2.4400e-003	2.4400e-003		2.2900e-003	2.2900e-003	0.0000	4.9813	4.9813	1.2300e-003	0.0000	5.0122

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

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	5.9000e-004	0.0171	4.5500e-003	4.0000e-005	9.9000e-004	8.0000e-005	1.0700e-003	2.9000e-004	8.0000e-005	3.7000e-004	0.0000	3.9216	3.9216	1.8000e-004	0.0000	3.9261
Worker	1.1600e-003	8.4000e-004	8.7600e-003	3.0000e-005	2.7800e-003	2.0000e-005	2.7900e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.3805	2.3805	6.0000e-005	0.0000	2.3820
Total	1.7500e-003	0.0179	0.0133	7.0000e-005	3.7700e-003	1.0000e-004	3.8600e-003	1.0300e-003	1.0000e-004	1.1200e-003	0.0000	6.3022	6.3022	2.4000e-004	0.0000	6.3081

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	5.4200e-003	0.0469	0.0329	6.0000e-005		2.4400e-003	2.4400e-003		2.2900e-003	2.2900e-003	0.0000	4.9813	4.9813	1.2300e-003	0.0000	5.0122
Total	5.4200e-003	0.0469	0.0329	6.0000e-005		2.4400e-003	2.4400e-003		2.2900e-003	2.2900e-003	0.0000	4.9813	4.9813	1.2300e-003	0.0000	5.0122

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

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	5.9000e-004	0.0171	4.5500e-003	4.0000e-005	9.9000e-004	8.0000e-005	1.0700e-003	2.9000e-004	8.0000e-005	3.7000e-004	0.0000	3.9216	3.9216	1.8000e-004	0.0000	3.9261
Worker	1.1600e-003	8.4000e-004	8.7600e-003	3.0000e-005	2.7800e-003	2.0000e-005	2.7900e-003	7.4000e-004	2.0000e-005	7.5000e-004	0.0000	2.3805	2.3805	6.0000e-005	0.0000	2.3820
Total	1.7500e-003	0.0179	0.0133	7.0000e-005	3.7700e-003	1.0000e-004	3.8600e-003	1.0300e-003	1.0000e-004	1.1200e-003	0.0000	6.3022	6.3022	2.4000e-004	0.0000	6.3081

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	1.0000e-004	9.6000e-004	9.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1264	0.1264	4.0000e-005	0.0000	0.1274
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-004	9.6000e-004	9.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1264	0.1264	4.0000e-005	0.0000	0.1274

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

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	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0612	0.0612	0.0000	0.0000	0.0613
Total	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0612	0.0612	0.0000	0.0000	0.0613

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	1.0000e-004	9.6000e-004	9.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1264	0.1264	4.0000e-005	0.0000	0.1274
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	1.0000e-004	9.6000e-004	9.4000e-004	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005	0.0000	0.1264	0.1264	4.0000e-005	0.0000	0.1274

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

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	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0612	0.0612	0.0000	0.0000	0.0613
Total	3.0000e-005	2.0000e-005	2.3000e-004	0.0000	7.0000e-005	0.0000	7.0000e-005	2.0000e-005	0.0000	2.0000e-005	0.0000	0.0612	0.0612	0.0000	0.0000	0.0613

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	0.0278					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-004	1.6800e-003	1.8300e-003	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
Total	0.0281	1.6800e-003	1.8300e-003	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

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	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	6.8000e-003	6.8000e-003	0.0000	0.0000	6.8100e-003
Total	0.0000	0.0000	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	6.8000e-003	6.8000e-003	0.0000	0.0000	6.8100e-003

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	0.0278					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	2.4000e-004	1.6800e-003	1.8300e-003	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558
Total	0.0281	1.6800e-003	1.8300e-003	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004	0.0000	0.2553	0.2553	2.0000e-005	0.0000	0.2558

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

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	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	6.8000e-003	6.8000e-003	0.0000	0.0000	6.8100e-003
Total	0.0000	0.0000	3.0000e-005	0.0000	1.0000e-005	0.0000	1.0000e-005	0.0000	0.0000	0.0000	0.0000	6.8000e-003	6.8000e-003	0.0000	0.0000	6.8100e-003

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0365	0.1136	0.2540	5.1000e-004	0.0361	5.7000e-004	0.0367	9.6700e-003	5.3000e-004	0.0102	0.0000	46.4420	46.4420	2.6400e-003	0.0000	46.5080
Unmitigated	0.0365	0.1136	0.2540	5.1000e-004	0.0361	5.7000e-004	0.0367	9.6700e-003	5.3000e-004	0.0102	0.0000	46.4420	46.4420	2.6400e-003	0.0000	46.5080

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	181.07	181.07	181.07	97,127	97,127
Total	181.07	181.07	181.07	97,127	97,127

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
Convenience Market With Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market With Gas Pumps	0.604810	0.038204	0.185149	0.108513	0.015498	0.004981	0.012268	0.020156	0.002083	0.001571	0.005363	0.000620	0.000785

5.0 Energy Detail

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

Historical Energy Use: N

5.1 Mitigation Measures Energy

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	65.1749	65.1749	2.9500e-003	6.1000e-004	65.4303
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	65.1749	65.1749	2.9500e-003	6.1000e-004	65.4303
NaturalGas Mitigated	2.6000e-004	2.3900e-003	2.0100e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5985	2.5985	5.0000e-005	5.0000e-005	2.6140
NaturalGas Unmitigated	2.6000e-004	2.3900e-003	2.0100e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5985	2.5985	5.0000e-005	5.0000e-005	2.6140

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market With Gas Pumps	48694.8	2.6000e-004	2.3900e-003	2.0100e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5985	2.5985	5.0000e-005	5.0000e-005	2.6140
Total		2.6000e-004	2.3900e-003	2.0100e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5985	2.5985	5.0000e-005	5.0000e-005	2.6140

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Convenience Market With Gas Pumps	48694.8	2.6000e-004	2.3900e-003	2.0100e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5985	2.5985	5.0000e-005	5.0000e-005	2.6140
Total		2.6000e-004	2.3900e-003	2.0100e-003	1.0000e-005		1.8000e-004	1.8000e-004		1.8000e-004	1.8000e-004	0.0000	2.5985	2.5985	5.0000e-005	5.0000e-005	2.6140

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market With Gas Pumps	224037	65.1749	2.9500e-003	6.1000e-004	65.4303
Total		65.1749	2.9500e-003	6.1000e-004	65.4303

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Convenience Market With Gas Pumps	224037	65.1749	2.9500e-003	6.1000e-004	65.4303
Total		65.1749	2.9500e-003	6.1000e-004	65.4303

6.0 Area Detail

6.1 Mitigation Measures Area

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.0906	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.7000e-004	3.7000e-004	0.0000	0.0000	3.9000e-004
Unmitigated	0.0906	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.7000e-004	3.7000e-004	0.0000	0.0000	3.9000e-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	0.0107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0799					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.7000e-004	3.7000e-004	0.0000	0.0000	3.9000e-004
Total	0.0906	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.7000e-004	3.7000e-004	0.0000	0.0000	3.9000e-004

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0107					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.0799					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.0000e-005	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.7000e-004	3.7000e-004	0.0000	0.0000	3.9000e-004
Total	0.0906	0.0000	1.9000e-004	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	3.7000e-004	3.7000e-004	0.0000	0.0000	3.9000e-004

7.0 Water Detail

7.1 Mitigation Measures Water

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	3.8122	0.0495	1.2000e-003	5.4073
Unmitigated	3.8122	0.0495	1.2000e-003	5.4073

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	1.51552 / 0.928869	3.8122	0.0495	1.2000e-003	5.4073
Total		3.8122	0.0495	1.2000e-003	5.4073

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Convenience Market With Gas Pumps	1.51552 / 0.928869	3.8122	0.0495	1.2000e-003	5.4073
Total		3.8122	0.0495	1.2000e-003	5.4073

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	12.4819	0.7377	0.0000	30.9234
Unmitigated	12.4819	0.7377	0.0000	30.9234

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market With Gas Pumps	61.49	12.4819	0.7377	0.0000	30.9234
Total		12.4819	0.7377	0.0000	30.9234

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Convenience Market With Gas Pumps	61.49	12.4819	0.7377	0.0000	30.9234
Total		12.4819	0.7377	0.0000	30.9234

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type
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7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Annual

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

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

User Defined Equipment

Equipment Type	Number
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11.0 Vegetation

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

7-11 Convenience and 76 Retail Fuel Stations
Santa Clara County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market With Gas Pumps	20.46	1000sqft	0.47	20,460.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

Project Characteristics -

Land Use -

Construction Phase - Revised construction period.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Revise based on the project type

Off-road Equipment - Revise

Off-road Equipment - Revise based on the project

Off-road Equipment - Revise

Off-road Equipment - Revise no site preparation for this project

Demolition -

Grading - Estimated Acres Graded

Architectural Coating - Coating area consist of 7-11 store and canopy of the gas stations

Vehicle Trips - Based on additional 181 trips per day and land size of 20.46 (1,000 ft2).

Construction Off-road Equipment Mitigation - Revise Tiers

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	10,230.00	6,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	30,690.00	3,000.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	5.00	2.00
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	NumDays	5.00	1.00
tblGrading	AcresOfGrading	0.00	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	2.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	4.00	0.50
tblOffRoadEquipment	UsageHours	6.00	2.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	18.00
tblVehicleTrips	ST_TR	1,448.33	8.85
tblVehicleTrips	SU_TR	1,182.08	8.85
tblVehicleTrips	WD_TR	845.60	8.85

2.0 Emissions Summary

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003
Energy	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886
Mobile	0.2376	0.6146	1.3037	2.9400e-003	0.2055	3.1200e-003	0.2086	0.0549	2.9200e-003	0.0578		297.1708	297.1708	0.0153		297.5542
Total	0.7356	0.6277	1.3168	3.0200e-003	0.2055	4.1200e-003	0.2096	0.0549	3.9200e-003	0.0588		312.8706	312.8706	0.0157	2.9000e-004	313.3476

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	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003
Energy	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886
Mobile	0.2376	0.6146	1.3037	2.9400e-003	0.2055	3.1200e-003	0.2086	0.0549	2.9200e-003	0.0578		297.1708	297.1708	0.0153		297.5542
Total	0.7356	0.6277	1.3168	3.0200e-003	0.2055	4.1200e-003	0.2096	0.0549	3.9200e-003	0.0588		312.8706	312.8706	0.0157	2.9000e-004	313.3476

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/14/2020	5	10	
2	Site Preparation	Site Preparation	1/15/2020	1/15/2020	5	1	
3	Grading	Grading	1/16/2020	1/16/2020	5	1	
4	Building Construction	Building Construction	1/17/2020	6/4/2020	5	100	
5	Paving	Paving	6/5/2020	6/5/2020	5	1	
6	Architectural Coating	Architectural Coating	6/6/2020	6/9/2020	5	2	

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: 3,000; Non-Residential Outdoor: 6,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	3.00	81	0.73
Demolition	Cranes	1	0.50	231	0.29
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	1	4.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Cement and Mortar Mixers	2	3.00	9	0.56
Building Construction	Cranes	1	0.50	231	0.29
Building Construction	Forklifts	1	2.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Cement and Mortar Mixers	1	2.00	9	0.56
Paving	Pavers	1	3.00	130	0.42
Paving	Rollers	1	3.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	7.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

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	0.4249	4.0431	3.1710	5.3300e-003		0.2241	0.2241		0.2121	0.2121		510.9757	510.9757	0.1075		513.6621
Total	0.4249	4.0431	3.1710	5.3300e-003		0.2241	0.2241		0.2121	0.2121		510.9757	510.9757	0.1075		513.6621

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500
Total	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500

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	0.4249	4.0431	3.1710	5.3300e-003		0.2241	0.2241		0.2121	0.2121	0.0000	510.9757	510.9757	0.1075		513.6621
Total	0.4249	4.0431	3.1710	5.3300e-003		0.2241	0.2241		0.2121	0.2121	0.0000	510.9757	510.9757	0.1075		513.6621

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500
Total	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500

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	0.0000	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	0.5303	0.0000	0.5303	0.0573	0.0000	0.0573		0.0000	0.0000	0.0000		0.0000

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0174	0.0107	0.1375	4.0000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		40.3003	40.3003	9.9000e-004		40.3250
Total	0.0174	0.0107	0.1375	4.0000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		40.3003	40.3003	9.9000e-004		40.3250

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	0.0000	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	0.5303	0.0000	0.5303	0.0573	0.0000	0.0573	0.0000	0.0000	0.0000	0.0000		0.0000

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0174	0.0107	0.1375	4.0000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		40.3003	40.3003	9.9000e-004		40.3250
Total	0.0174	0.0107	0.1375	4.0000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		40.3003	40.3003	9.9000e-004		40.3250

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					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	0.5397	5.6661	2.0658	4.2600e-003		0.2775	0.2775		0.2553	0.2553		413.6713	413.6713	0.1338		417.0160
Total	0.5397	5.6661	2.0658	4.2600e-003	3.0110	0.2775	3.2885	1.6551	0.2553	1.9104		413.6713	413.6713	0.1338		417.0160

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0000	0.0000	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	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500
Total	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500

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					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	0.5397	5.6661	2.0658	4.2600e-003		0.2775	0.2775		0.2553	0.2553	0.0000	413.6713	413.6713	0.1338		417.0160
Total	0.5397	5.6661	2.0658	4.2600e-003	3.0110	0.2775	3.2885	1.6551	0.2553	1.9104	0.0000	413.6713	413.6713	0.1338		417.0160

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0000	0.0000	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	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500
Total	0.0348	0.0213	0.2750	8.1000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		80.6006	80.6006	1.9700e-003		80.6500

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	0.1084	0.9375	0.6586	1.2800e-003		0.0488	0.0488		0.0458	0.0458		109.8193	109.8193	0.0272		110.4992
Total	0.1084	0.9375	0.6586	1.2800e-003		0.0488	0.0488		0.0458	0.0458		109.8193	109.8193	0.0272		110.4992

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0117	0.3374	0.0854	8.3000e-004	0.0203	1.6800e-003	0.0220	5.8500e-003	1.6100e-003	7.4500e-003		87.3897	87.3897	3.8300e-003		87.4855
Worker	0.0243	0.0149	0.1925	5.7000e-004	0.0575	3.6000e-004	0.0579	0.0153	3.3000e-004	0.0156		56.4205	56.4205	1.3800e-003		56.4550
Total	0.0360	0.3523	0.2780	1.4000e-003	0.0778	2.0400e-003	0.0799	0.0211	1.9400e-003	0.0230		143.8101	143.8101	5.2100e-003		143.9405

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	0.1084	0.9375	0.6586	1.2800e-003		0.0488	0.0488		0.0458	0.0458	0.0000	109.8193	109.8193	0.0272		110.4992
Total	0.1084	0.9375	0.6586	1.2800e-003		0.0488	0.0488		0.0458	0.0458	0.0000	109.8193	109.8193	0.0272		110.4992

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0117	0.3374	0.0854	8.3000e-004	0.0203	1.6800e-003	0.0220	5.8500e-003	1.6100e-003	7.4500e-003		87.3897	87.3897	3.8300e-003		87.4855
Worker	0.0243	0.0149	0.1925	5.7000e-004	0.0575	3.6000e-004	0.0579	0.0153	3.3000e-004	0.0156		56.4205	56.4205	1.3800e-003		56.4550
Total	0.0360	0.3523	0.2780	1.4000e-003	0.0778	2.0400e-003	0.0799	0.0211	1.9400e-003	0.0230		143.8101	143.8101	5.2100e-003		143.9405

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	0.1912	1.9263	1.8740	2.9200e-003		0.1046	0.1046		0.0965	0.0965		278.6310	278.6310	0.0873		280.8146
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1912	1.9263	1.8740	2.9200e-003		0.1046	0.1046		0.0965	0.0965		278.6310	278.6310	0.0873		280.8146

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0626	0.0384	0.4951	1.4600e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		145.0812	145.0812	3.5500e-003		145.1699
Total	0.0626	0.0384	0.4951	1.4600e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		145.0812	145.0812	3.5500e-003		145.1699

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	0.1912	1.9263	1.8740	2.9200e-003		0.1046	0.1046		0.0965	0.0965	0.0000	278.6310	278.6310	0.0873		280.8146
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1912	1.9263	1.8740	2.9200e-003		0.1046	0.1046		0.0965	0.0965	0.0000	278.6310	278.6310	0.0873		280.8146

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0626	0.0384	0.4951	1.4600e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		145.0812	145.0812	3.5500e-003		145.1699
Total	0.0626	0.0384	0.4951	1.4600e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		145.0812	145.0812	3.5500e-003		145.1699

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	27.8100					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	28.0522	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	3.4800e-003	2.1300e-003	0.0275	8.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.0601	8.0601	2.0000e-004		8.0650
Total	3.4800e-003	2.1300e-003	0.0275	8.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.0601	8.0601	2.0000e-004		8.0650

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	27.8100					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	28.0522	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

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	3.4800e-003	2.1300e-003	0.0275	8.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.0601	8.0601	2.0000e-004		8.0650
Total	3.4800e-003	2.1300e-003	0.0275	8.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		8.0601	8.0601	2.0000e-004		8.0650

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.2376	0.6146	1.3037	2.9400e-003	0.2055	3.1200e-003	0.2086	0.0549	2.9200e-003	0.0578		297.1708	297.1708	0.0153		297.5542
Unmitigated	0.2376	0.6146	1.3037	2.9400e-003	0.2055	3.1200e-003	0.2086	0.0549	2.9200e-003	0.0578		297.1708	297.1708	0.0153		297.5542

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	181.07	181.07	181.07	97,127	97,127
Total	181.07	181.07	181.07	97,127	97,127

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
Convenience Market With Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market With Gas Pumps	0.604810	0.038204	0.185149	0.108513	0.015498	0.004981	0.012268	0.020156	0.002083	0.001571	0.005363	0.000620	0.000785

5.0 Energy Detail

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

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	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886
NaturalGas Unmitigated	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886

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					
Convenience Market With Gas Pumps	133.41	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886
Total		1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market With Gas Pumps	0.13341	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886
Total		1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003
Unmitigated	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003
Total	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003
Total	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003

7.0 Water Detail

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Summer

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**

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

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

User Defined Equipment

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

11.0 Vegetation

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

7-11 Convenience and 76 Retail Fuel Stations
Santa Clara County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Convenience Market With Gas Pumps	20.46	1000sqft	0.47	20,460.00	0

1.2 Other Project Characteristics

Urbanization	Urban	Wind Speed (m/s)	2.2	Precipitation Freq (Days)	58
Climate Zone	4			Operational Year	2020
Utility Company	Pacific Gas & Electric Company				
CO2 Intensity (lb/MW hr)	641.35	CH4 Intensity (lb/MW hr)	0.029	N2O Intensity (lb/MW hr)	0.006

1.3 User Entered Comments & Non-Default Data

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

Project Characteristics -

Land Use -

Construction Phase - Revised construction period.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Revise based on the project type

Off-road Equipment - Revise

Off-road Equipment - Revise based on the project

Off-road Equipment - Revise

Off-road Equipment - Revise no site preparation for this project

Demolition -

Grading - Estimated Acres Graded

Architectural Coating - Coating area consist of 7-11 store and canopy of the gas stations

Vehicle Trips - Based on additional 181 trips per day and land size of 20.46 (1,000 ft2).

Construction Off-road Equipment Mitigation - Revise Tiers

Table Name	Column Name	Default Value	New Value
tblArchitecturalCoating	ConstArea_Nonresidential_Exterior	10,230.00	6,000.00
tblArchitecturalCoating	ConstArea_Nonresidential_Interior	30,690.00	3,000.00
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	40	0
tblConstructionPhase	NumDays	5.00	2.00
tblConstructionPhase	NumDays	2.00	1.00
tblConstructionPhase	NumDays	5.00	1.00
tblGrading	AcresOfGrading	0.00	0.50
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	4.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	1.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	2.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	OffRoadEquipmentUnitAmount	1.00	0.00
tblOffRoadEquipment	UsageHours	6.00	2.00
tblOffRoadEquipment	UsageHours	8.00	3.00
tblOffRoadEquipment	UsageHours	4.00	0.50
tblOffRoadEquipment	UsageHours	6.00	2.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	7.00	3.00
tblOffRoadEquipment	UsageHours	1.00	4.00
tblOffRoadEquipment	UsageHours	6.00	4.00
tblProjectCharacteristics	OperationalYear	2018	2020
tblTripsAndVMT	WorkerTripNumber	0.00	5.00
tblTripsAndVMT	WorkerTripNumber	3.00	10.00
tblTripsAndVMT	WorkerTripNumber	8.00	18.00
tblVehicleTrips	ST_TR	1,448.33	8.85
tblVehicleTrips	SU_TR	1,182.08	8.85
tblVehicleTrips	WD_TR	845.60	8.85

2.0 Emissions Summary

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003
Energy	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886
Mobile	0.1995	0.6284	1.5370	2.7400e-003	0.2055	3.1800e-003	0.2086	0.0549	2.9800e-003	0.0578		276.3101	276.3101	0.0169		276.7334
Total	0.6975	0.6415	1.5501	2.8200e-003	0.2055	4.1800e-003	0.2096	0.0549	3.9800e-003	0.0588		292.0099	292.0099	0.0172	2.9000e-004	292.5268

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	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003
Energy	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886
Mobile	0.1995	0.6284	1.5370	2.7400e-003	0.2055	3.1800e-003	0.2086	0.0549	2.9800e-003	0.0578		276.3101	276.3101	0.0169		276.7334
Total	0.6975	0.6415	1.5501	2.8200e-003	0.2055	4.1800e-003	0.2096	0.0549	3.9800e-003	0.0588		292.0099	292.0099	0.0172	2.9000e-004	292.5268

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

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

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2020	1/14/2020	5	10	
2	Site Preparation	Site Preparation	1/15/2020	1/15/2020	5	1	
3	Grading	Grading	1/16/2020	1/16/2020	5	1	
4	Building Construction	Building Construction	1/17/2020	6/4/2020	5	100	
5	Paving	Paving	6/5/2020	6/5/2020	5	1	
6	Architectural Coating	Architectural Coating	6/6/2020	6/9/2020	5	2	

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: 3,000; Non-Residential Outdoor: 6,000; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	3.00	81	0.73
Demolition	Cranes	1	0.50	231	0.29
Demolition	Rubber Tired Dozers	1	1.00	247	0.40
Demolition	Tractors/Loaders/Backhoes	1	4.00	97	0.37
Site Preparation	Graders	0	8.00	187	0.41
Site Preparation	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Grading	Concrete/Industrial Saws	0	8.00	81	0.73
Grading	Rubber Tired Dozers	1	4.00	247	0.40
Grading	Tractors/Loaders/Backhoes	0	6.00	97	0.37
Building Construction	Cement and Mortar Mixers	2	3.00	9	0.56
Building Construction	Cranes	1	0.50	231	0.29
Building Construction	Forklifts	1	2.00	89	0.20
Building Construction	Tractors/Loaders/Backhoes	0	8.00	97	0.37
Paving	Cement and Mortar Mixers	1	2.00	9	0.56
Paving	Pavers	1	3.00	130	0.42
Paving	Rollers	1	3.00	80	0.38
Paving	Tractors/Loaders/Backhoes	0	7.00	97	0.37
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	0	5.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	1	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	4	7.00	3.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	3	18.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	1.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Clean Paved Roads

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	0.4249	4.0431	3.1710	5.3300e-003		0.2241	0.2241		0.2121	0.2121		510.9757	510.9757	0.1075		513.6621
Total	0.4249	4.0431	3.1710	5.3300e-003		0.2241	0.2241		0.2121	0.2121		510.9757	510.9757	0.1075		513.6621

7-11 Covenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0370	0.0261	0.2548	7.4000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.0466	74.0466	1.8400e-003		74.0925
Total	0.0370	0.0261	0.2548	7.4000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.0466	74.0466	1.8400e-003		74.0925

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	0.4249	4.0431	3.1710	5.3300e-003		0.2241	0.2241		0.2121	0.2121	0.0000	510.9757	510.9757	0.1075		513.6621
Total	0.4249	4.0431	3.1710	5.3300e-003		0.2241	0.2241		0.2121	0.2121	0.0000	510.9757	510.9757	0.1075		513.6621

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0370	0.0261	0.2548	7.4000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.0466	74.0466	1.8400e-003		74.0925
Total	0.0370	0.0261	0.2548	7.4000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.0466	74.0466	1.8400e-003		74.0925

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	0.0000	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	0.5303	0.0000	0.5303	0.0573	0.0000	0.0573		0.0000	0.0000	0.0000		0.0000

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0185	0.0130	0.1274	3.7000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		37.0233	37.0233	9.2000e-004		37.0463
Total	0.0185	0.0130	0.1274	3.7000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		37.0233	37.0233	9.2000e-004		37.0463

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	0.0000	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	0.5303	0.0000	0.5303	0.0573	0.0000	0.0573	0.0000	0.0000	0.0000	0.0000		0.0000

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0185	0.0130	0.1274	3.7000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		37.0233	37.0233	9.2000e-004		37.0463
Total	0.0185	0.0130	0.1274	3.7000e-004	0.0411	2.6000e-004	0.0413	0.0109	2.4000e-004	0.0111		37.0233	37.0233	9.2000e-004		37.0463

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					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	0.5397	5.6661	2.0658	4.2600e-003		0.2775	0.2775		0.2553	0.2553		413.6713	413.6713	0.1338		417.0160
Total	0.5397	5.6661	2.0658	4.2600e-003	3.0110	0.2775	3.2885	1.6551	0.2553	1.9104		413.6713	413.6713	0.1338		417.0160

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0000	0.0000	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	0.0370	0.0261	0.2548	7.4000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.0466	74.0466	1.8400e-003		74.0925
Total	0.0370	0.0261	0.2548	7.4000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.0466	74.0466	1.8400e-003		74.0925

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					3.0110	0.0000	3.0110	1.6551	0.0000	1.6551			0.0000			0.0000
Off-Road	0.5397	5.6661	2.0658	4.2600e-003		0.2775	0.2775		0.2553	0.2553	0.0000	413.6713	413.6713	0.1338		417.0160
Total	0.5397	5.6661	2.0658	4.2600e-003	3.0110	0.2775	3.2885	1.6551	0.2553	1.9104	0.0000	413.6713	413.6713	0.1338		417.0160

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0000	0.0000	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	0.0370	0.0261	0.2548	7.4000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.0466	74.0466	1.8400e-003		74.0925
Total	0.0370	0.0261	0.2548	7.4000e-004	0.0822	5.1000e-004	0.0827	0.0218	4.7000e-004	0.0223		74.0466	74.0466	1.8400e-003		74.0925

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	0.1084	0.9375	0.6586	1.2800e-003		0.0488	0.0488		0.0458	0.0458		109.8193	109.8193	0.0272		110.4992
Total	0.1084	0.9375	0.6586	1.2800e-003		0.0488	0.0488		0.0458	0.0458		109.8193	109.8193	0.0272		110.4992

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0123	0.3413	0.0974	8.1000e-004	0.0203	1.7100e-003	0.0220	5.8500e-003	1.6300e-003	7.4800e-003		85.1712	85.1712	4.1300e-003		85.2745
Worker	0.0259	0.0183	0.1784	5.2000e-004	0.0575	3.6000e-004	0.0579	0.0153	3.3000e-004	0.0156		51.8326	51.8326	1.2800e-003		51.8648
Total	0.0382	0.3595	0.2757	1.3300e-003	0.0778	2.0700e-003	0.0799	0.0211	1.9600e-003	0.0231		137.0039	137.0039	5.4100e-003		137.1392

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	0.1084	0.9375	0.6586	1.2800e-003		0.0488	0.0488		0.0458	0.0458	0.0000	109.8193	109.8193	0.0272		110.4992
Total	0.1084	0.9375	0.6586	1.2800e-003		0.0488	0.0488		0.0458	0.0458	0.0000	109.8193	109.8193	0.0272		110.4992

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0123	0.3413	0.0974	8.1000e-004	0.0203	1.7100e-003	0.0220	5.8500e-003	1.6300e-003	7.4800e-003		85.1712	85.1712	4.1300e-003		85.2745
Worker	0.0259	0.0183	0.1784	5.2000e-004	0.0575	3.6000e-004	0.0579	0.0153	3.3000e-004	0.0156		51.8326	51.8326	1.2800e-003		51.8648
Total	0.0382	0.3595	0.2757	1.3300e-003	0.0778	2.0700e-003	0.0799	0.0211	1.9600e-003	0.0231		137.0039	137.0039	5.4100e-003		137.1392

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	0.1912	1.9263	1.8740	2.9200e-003		0.1046	0.1046		0.0965	0.0965		278.6310	278.6310	0.0873		280.8146
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1912	1.9263	1.8740	2.9200e-003		0.1046	0.1046		0.0965	0.0965		278.6310	278.6310	0.0873		280.8146

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0666	0.0469	0.4587	1.3400e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		133.2839	133.2839	3.3000e-003		133.3665
Total	0.0666	0.0469	0.4587	1.3400e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		133.2839	133.2839	3.3000e-003		133.3665

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	0.1912	1.9263	1.8740	2.9200e-003		0.1046	0.1046		0.0965	0.0965	0.0000	278.6310	278.6310	0.0873		280.8146
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	0.1912	1.9263	1.8740	2.9200e-003		0.1046	0.1046		0.0965	0.0965	0.0000	278.6310	278.6310	0.0873		280.8146

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	0.0666	0.0469	0.4587	1.3400e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		133.2839	133.2839	3.3000e-003		133.3665
Total	0.0666	0.0469	0.4587	1.3400e-003	0.1479	9.2000e-004	0.1488	0.0392	8.5000e-004	0.0401		133.2839	133.2839	3.3000e-003		133.3665

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	27.8100					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	28.0522	1.6838	1.8314	2.9700e-003		0.1109	0.1109		0.1109	0.1109		281.4481	281.4481	0.0218		281.9928

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	3.7000e-003	2.6100e-003	0.0255	7.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.4047	7.4047	1.8000e-004		7.4093
Total	3.7000e-003	2.6100e-003	0.0255	7.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.4047	7.4047	1.8000e-004		7.4093

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	27.8100					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	28.0522	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

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, 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	3.7000e-003	2.6100e-003	0.0255	7.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.4047	7.4047	1.8000e-004		7.4093
Total	3.7000e-003	2.6100e-003	0.0255	7.0000e-005	8.2100e-003	5.0000e-005	8.2700e-003	2.1800e-003	5.0000e-005	2.2300e-003		7.4047	7.4047	1.8000e-004		7.4093

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.1995	0.6284	1.5370	2.7400e-003	0.2055	3.1800e-003	0.2086	0.0549	2.9800e-003	0.0578		276.3101	276.3101	0.0169		276.7334
Unmitigated	0.1995	0.6284	1.5370	2.7400e-003	0.2055	3.1800e-003	0.2086	0.0549	2.9800e-003	0.0578		276.3101	276.3101	0.0169		276.7334

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Convenience Market With Gas Pumps	181.07	181.07	181.07	97,127	97,127
Total	181.07	181.07	181.07	97,127	97,127

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
Convenience Market With Gas	9.50	7.30	7.30	0.80	80.20	19.00	14	21	65

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Convenience Market With Gas Pumps	0.604810	0.038204	0.185149	0.108513	0.015498	0.004981	0.012268	0.020156	0.002083	0.001571	0.005363	0.000620	0.000785

5.0 Energy Detail

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

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	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886
NaturalGas Unmitigated	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886

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					
Convenience Market With Gas Pumps	133.41	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886
Total		1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Convenience Market With Gas Pumps	0.13341	1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886
Total		1.4400e-003	0.0131	0.0110	8.0000e-005		9.9000e-004	9.9000e-004		9.9000e-004	9.9000e-004		15.6953	15.6953	3.0000e-004	2.9000e-004	15.7886

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003
Unmitigated	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003
Total	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.0585					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	0.4378					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.0000e-004	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003
Total	0.4965	2.0000e-005	2.1000e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005		4.4800e-003	4.4800e-003	1.0000e-005		4.7800e-003

7.0 Water Detail

7-11 Convenience and 76 Retail Fuel Stations - Santa Clara County, Winter

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**

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

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

Equipment Type	Number
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11.0 Vegetation

AERSCREEN FOR DIESEL PM10 (EXHAUST)

AERSCREEN 16216 / AERMOD 18081

07/03/19
13:39:16

TITLE: 7-11 STORE AND 76 GAS STATIONS

***** STACK PARAMETERS *****

SOURCE EMISSION RATE:	0.114E-03 g/s	0.905E-03 lb/hr
STACK HEIGHT:	2.44 meters	8.00 feet
STACK INNER DIAMETER:	0.102 meters	4.00 inches
PLUME EXIT TEMPERATURE:	718.3 K	833.4 Deg F
PLUME EXIT VELOCITY:	64.016 m/s	210.03 ft/s
STACK AIR FLOW RATE:	1100 ACFM	
RURAL OR URBAN:	URBAN	
POPULATION:	1030119	

INITIAL PROBE DISTANCE = 5000. meters 16404. feet

***** BUILDING DOWNWASH PARAMETERS *****

NO BUILDING DOWNWASH HAS BEEN REQUESTED FOR THIS ANALYSIS

***** PROBE ANALYSIS *****

25 meter receptor spacing: 1. meters - 5000. meters

Zo SECTOR	ROUGHNESS LENGTH	1-HR CONC (ug/m3)	DIST (m)	TEMPORAL PERIOD
1*	1.000	0.4007E-01	25.0	WIN

* = worst case flow sector

***** MAKEMET METEOROLOGY PARAMETERS *****

MIN/MAX TEMPERATURE: 272.0 / 316.5 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE: Average Moisture
DOMINANT SEASON: Winter

ALBEDO: 0.35
BOWEN RATIO: 1.50
ROUGHNESS LENGTH: 1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADJUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR
-- -- -- -- --
10 04 25 25 01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
-64.00	1.206	-9.000	0.020	-999.	3047.	2665.4	1.000	1.50	0.35	7.00		

HT	REF	TA	HT
10.0	316.5	2.0	

WIND SPEED AT STACK HEIGHT (non-downwash): 2.1 m/s
STACK-TIP DOWNWASH ADJUSTED STACK HEIGHT: 2.4 meters
ESTIMATED FINAL PLUME RISE (non-downwash): 0.9 meters
ESTIMATED FINAL PLUME HEIGHT (non-downwash): 3.3 meters

METEOROLOGY CONDITIONS USED TO PREDICT AMBIENT BOUNDARY IMPACT

YR MO DY JDY HR
-- -- -- -- --
10 02 09 25 12

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
307.05	0.195	1.800	0.020	635.	198.	-2.0	1.000	2.00	0.16	0.50		

HT	REF	TA	HT

10.0 272.0 2.0

WIND SPEED AT STACK HEIGHT (non-downwash): 0.2 m/s
STACK-TIP DOWNWASH ADJUSTED STACK HEIGHT: 2.4 meters
ESTIMATED FINAL PLUME RISE (non-downwash): 141.8 meters
ESTIMATED FINAL PLUME HEIGHT (non-downwash): 144.2 meters

***** AERSCREEN AUTOMATED DISTANCES *****
OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

NEAREST
WORKER
RECEPTOR

NEAREST
RESIDENTIAL
RECEPTOR

DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	0.1278E-02	2475.00	0.8499E-03
25.00	0.4007E-01	2500.00	0.8391E-03
34.14	0.2335E-01	2525.00	0.8286E-03
50.00	0.1671E-01	2550.00	0.8183E-03
70.10	0.1314E-01	2575.00	0.8083E-03
75.00	0.1257E-01	2600.00	0.7984E-03
91.44	0.1067E-01	2625.00	0.7887E-03
100.00	0.9777E-02	2650.00	0.7793E-03
106.68	0.9135E-02	2675.00	0.7700E-03
125.00	0.7843E-02	2700.00	0.7609E-03
150.00	0.7010E-02	2725.00	0.7520E-03
175.00	0.6526E-02	2750.00	0.7432E-03
200.00	0.5996E-02	2775.00	0.7347E-03
225.00	0.5713E-02	2800.00	0.7263E-03
250.00	0.5454E-02	2825.00	0.7180E-03
275.00	0.5373E-02	2850.00	0.7099E-03
300.00	0.5359E-02	2875.00	0.7020E-03
325.00	0.5270E-02	2900.00	0.6942E-03
350.00	0.5153E-02	2925.00	0.6866E-03
375.00	0.5018E-02	2950.00	0.6791E-03
400.00	0.4871E-02	2975.00	0.6717E-03
425.00	0.4719E-02	3000.00	0.6645E-03
450.00	0.4566E-02	3025.00	0.6574E-03
475.00	0.4413E-02	3050.00	0.6504E-03
500.00	0.4263E-02	3075.00	0.6436E-03
525.00	0.4128E-02	3100.00	0.6369E-03
550.00	0.4013E-02	3125.00	0.6303E-03
575.00	0.3898E-02	3150.00	0.6238E-03
600.00	0.3786E-02	3175.00	0.6174E-03
625.00	0.3677E-02	3200.00	0.6111E-03
650.00	0.3571E-02	3225.00	0.6050E-03

675.00	0.3468E-02	3250.00	0.5989E-03
700.00	0.3368E-02	3275.00	0.5929E-03
725.00	0.3272E-02	3300.00	0.5871E-03
750.00	0.3179E-02	3325.00	0.5813E-03
775.00	0.3090E-02	3350.00	0.5757E-03
800.00	0.3004E-02	3375.00	0.5701E-03
825.00	0.2922E-02	3400.00	0.5646E-03
850.00	0.2842E-02	3425.00	0.5592E-03
875.00	0.2766E-02	3450.00	0.5539E-03
900.00	0.2693E-02	3475.00	0.5487E-03
925.00	0.2622E-02	3500.00	0.5435E-03
950.00	0.2555E-02	3525.00	0.5385E-03
975.00	0.2490E-02	3550.00	0.5335E-03
1000.00	0.2427E-02	3575.00	0.5286E-03
1025.00	0.2367E-02	3600.00	0.5238E-03
1050.00	0.2309E-02	3625.00	0.5190E-03
1075.00	0.2254E-02	3650.00	0.5143E-03
1100.00	0.2200E-02	3675.00	0.5097E-03
1125.00	0.2149E-02	3700.00	0.5052E-03
1150.00	0.2099E-02	3725.00	0.5007E-03
1175.00	0.2051E-02	3750.00	0.4963E-03
1200.00	0.2005E-02	3775.00	0.4920E-03
1225.00	0.1960E-02	3800.00	0.4877E-03
1250.00	0.1918E-02	3825.00	0.4835E-03
1275.00	0.1876E-02	3850.00	0.4793E-03
1300.00	0.1836E-02	3875.00	0.4752E-03
1325.00	0.1798E-02	3900.00	0.4712E-03
1350.00	0.1760E-02	3925.00	0.4672E-03
1375.00	0.1724E-02	3950.00	0.4633E-03
1400.00	0.1690E-02	3975.00	0.4594E-03
1425.00	0.1656E-02	4000.00	0.4556E-03
1450.00	0.1623E-02	4025.00	0.4519E-03
1475.00	0.1592E-02	4050.00	0.4482E-03
1500.00	0.1561E-02	4075.00	0.4445E-03
1525.00	0.1532E-02	4100.00	0.4409E-03
1550.00	0.1503E-02	4125.00	0.4373E-03
1575.00	0.1475E-02	4150.00	0.4338E-03
1600.00	0.1448E-02	4175.00	0.4304E-03
1625.00	0.1422E-02	4200.00	0.4270E-03
1650.00	0.1397E-02	4225.00	0.4236E-03
1675.00	0.1372E-02	4250.00	0.4203E-03
1700.00	0.1348E-02	4275.00	0.4170E-03
1725.00	0.1325E-02	4300.00	0.4137E-03
1750.00	0.1302E-02	4325.00	0.4105E-03
1775.00	0.1281E-02	4350.00	0.4074E-03
1800.00	0.1259E-02	4375.00	0.4043E-03
1825.00	0.1238E-02	4400.00	0.4012E-03
1850.00	0.1218E-02	4425.00	0.3982E-03
1875.00	0.1199E-02	4450.00	0.3952E-03
1900.00	0.1180E-02	4475.00	0.3922E-03

1925.00	0.1161E-02	4500.00	0.3893E-03
1950.00	0.1143E-02	4525.00	0.3864E-03
1975.00	0.1125E-02	4550.00	0.3836E-03
2000.00	0.1108E-02	4575.00	0.3807E-03
2025.00	0.1091E-02	4600.00	0.3780E-03
2050.00	0.1075E-02	4625.00	0.3752E-03
2075.00	0.1059E-02	4650.00	0.3725E-03
2100.00	0.1044E-02	4675.00	0.3698E-03
2125.00	0.1028E-02	4700.00	0.3672E-03
2150.00	0.1014E-02	4725.00	0.3646E-03
2175.00	0.9992E-03	4750.00	0.3620E-03
2200.00	0.9851E-03	4775.00	0.3594E-03
2225.00	0.9714E-03	4800.00	0.3569E-03
2250.00	0.9579E-03	4825.00	0.3544E-03
2275.00	0.9448E-03	4850.00	0.3520E-03
2300.00	0.9320E-03	4875.00	0.3495E-03
2325.00	0.9195E-03	4900.00	0.3471E-03
2350.00	0.9072E-03	4925.00	0.3447E-03
2375.00	0.8952E-03	4950.00	0.3424E-03
2400.00	0.8835E-03	4975.00	0.3401E-03
2425.00	0.8721E-03	5000.00	0.3378E-03
2450.00	0.8608E-03		

 ***** AERSCREEN MAXIMUM IMPACT SUMMARY *****

CALCULATION PROCEDURE	MAXIMUM 1-HOUR CONC (ug/m3)	SCALED 3-HOUR CONC (ug/m3)	SCALED 8-HOUR CONC (ug/m3)	SCALED 24-HOUR CONC (ug/m3)	SCALED ANNUAL CONC (ug/m3)
FLAT TERRAIN	0.1769	0.1769	0.1592	0.1061	0.1769E-01

DISTANCE FROM SOURCE 6.00 meters

IMPACT AT THE AMBIENT BOUNDARY	0.1278E-02	0.1278E-02	0.1150E-02	0.7666E-03	0.1278E-03
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DISTANCE FROM SOURCE 1.00 meters

AERSCREEN FOR PM2.5 (EXHAUST)

AERSCREEN 16216 / AERMOD 18081

07/08/19
08:58:31

TITLE: 711 STORE AND 76 GAS STATIONS_CONSTRUCTION PM2.5 EXHAUST

***** STACK PARAMETERS *****

SOURCE EMISSION RATE:	0.107E-03 g/s	0.850E-03 lb/hr
STACK HEIGHT:	2.44 meters	8.00 feet
STACK INNER DIAMETER:	0.102 meters	4.00 inches
PLUME EXIT TEMPERATURE:	718.3 K	833.4 Deg F
PLUME EXIT VELOCITY:	64.016 m/s	210.03 ft/s
STACK AIR FLOW RATE:	1100 ACFM	
RURAL OR URBAN:	URBAN	
POPULATION:	1030119	
INITIAL PROBE DISTANCE =	5000. meters	16404. feet

***** BUILDING DOWNWASH PARAMETERS *****

NO BUILDING DOWNWASH HAS BEEN REQUESTED FOR THIS ANALYSIS

***** PROBE ANALYSIS *****

25 meter receptor spacing: 1. meters - 5000. meters

Zo SECTOR	ROUGHNESS LENGTH	1-HR CONC (ug/m3)	DIST (m)	TEMPORAL PERIOD
1*	1.000	0.3765E-01	25.0	WIN

* = worst case flow sector

***** MAKEMET METEOROLOGY PARAMETERS *****

MIN/MAX TEMPERATURE: 272.0 / 316.5 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
DOMINANT CLIMATE TYPE: Average Moisture
DOMINANT SEASON: Winter

ALBEDO: 0.35
BOWEN RATIO: 1.50
ROUGHNESS LENGTH: 1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADJUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR
-- -- -- -- --
10 04 25 25 01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
-64.00	1.206	-9.000	0.020	-999.	3047.	2665.4	1.000	1.50	0.35	7.00		

HT	REF	TA	HT
10.0	316.5	2.0	

WIND SPEED AT STACK HEIGHT (non-downwash): 2.1 m/s
STACK-TIP DOWNWASH ADJUSTED STACK HEIGHT: 2.4 meters
ESTIMATED FINAL PLUME RISE (non-downwash): 0.9 meters
ESTIMATED FINAL PLUME HEIGHT (non-downwash): 3.3 meters

METEOROLOGY CONDITIONS USED TO PREDICT AMBIENT BOUNDARY IMPACT

YR MO DY JDY HR
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10 02 09 25 12

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF	WS
307.05	0.195	1.800	0.020	635.	198.	-2.0	1.000	2.00	0.16	0.50		

HT	REF	TA	HT

10.0 272.0 2.0

WIND SPEED AT STACK HEIGHT (non-downwash): 0.2 m/s
STACK-TIP DOWNWASH ADJUSTED STACK HEIGHT: 2.4 meters
ESTIMATED FINAL PLUME RISE (non-downwash): 141.8 meters
ESTIMATED FINAL PLUME HEIGHT (non-downwash): 144.2 meters

***** AERSCREEN AUTOMATED DISTANCES *****
OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

NEAREST
SENSITIVE
RECEPTOR



DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	0.1200E-02	2500.00	0.7883E-03
25.00	0.3765E-01	2525.00	0.7785E-03
50.00	0.1570E-01	2550.00	0.7688E-03
70.10	0.1234E-01	2575.00	0.7593E-03
75.00	0.1181E-01	2600.00	0.7501E-03
100.00	0.9185E-02	2625.00	0.7410E-03
125.00	0.7368E-02	2650.00	0.7321E-03
150.00	0.6586E-02	2675.00	0.7234E-03
175.00	0.6131E-02	2700.00	0.7148E-03
200.00	0.5633E-02	2725.00	0.7065E-03
225.00	0.5368E-02	2750.00	0.6983E-03
250.00	0.5124E-02	2775.00	0.6902E-03
275.00	0.5048E-02	2800.00	0.6823E-03
300.00	0.5035E-02	2825.00	0.6746E-03
325.00	0.4951E-02	2850.00	0.6670E-03
350.00	0.4841E-02	2875.00	0.6595E-03
375.00	0.4714E-02	2900.00	0.6522E-03
400.00	0.4576E-02	2925.00	0.6450E-03
425.00	0.4434E-02	2950.00	0.6380E-03
450.00	0.4290E-02	2975.00	0.6311E-03
475.00	0.4146E-02	3000.00	0.6243E-03
500.00	0.4005E-02	3025.00	0.6176E-03
525.00	0.3879E-02	3050.00	0.6111E-03
550.00	0.3770E-02	3075.00	0.6046E-03
575.00	0.3662E-02	3100.00	0.5983E-03
600.00	0.3557E-02	3125.00	0.5921E-03
625.00	0.3454E-02	3150.00	0.5860E-03
650.00	0.3355E-02	3175.00	0.5800E-03
675.00	0.3258E-02	3200.00	0.5741E-03
700.00	0.3164E-02	3225.00	0.5683E-03
725.00	0.3074E-02	3250.00	0.5627E-03

750.00	0.2987E-02	3275.00	0.5571E-03
775.00	0.2903E-02	3300.00	0.5516E-03
800.00	0.2822E-02	3325.00	0.5461E-03
825.00	0.2745E-02	3350.00	0.5408E-03
850.00	0.2670E-02	3375.00	0.5356E-03
875.00	0.2599E-02	3400.00	0.5304E-03
900.00	0.2530E-02	3425.00	0.5254E-03
925.00	0.2464E-02	3450.00	0.5204E-03
950.00	0.2400E-02	3475.00	0.5155E-03
975.00	0.2339E-02	3500.00	0.5106E-03
1000.00	0.2280E-02	3525.00	0.5059E-03
1025.00	0.2224E-02	3550.00	0.5012E-03
1050.00	0.2169E-02	3575.00	0.4966E-03
1075.00	0.2117E-02	3600.00	0.4921E-03
1100.00	0.2067E-02	3625.00	0.4876E-03
1125.00	0.2018E-02	3650.00	0.4832E-03
1150.00	0.1972E-02	3675.00	0.4789E-03
1175.00	0.1927E-02	3700.00	0.4746E-03
1200.00	0.1884E-02	3725.00	0.4704E-03
1225.00	0.1842E-02	3750.00	0.4663E-03
1250.00	0.1801E-02	3775.00	0.4622E-03
1275.00	0.1763E-02	3800.00	0.4582E-03
1300.00	0.1725E-02	3825.00	0.4542E-03
1325.00	0.1689E-02	3850.00	0.4503E-03
1350.00	0.1654E-02	3875.00	0.4465E-03
1375.00	0.1620E-02	3900.00	0.4427E-03
1400.00	0.1587E-02	3925.00	0.4389E-03
1425.00	0.1556E-02	3950.00	0.4353E-03
1450.00	0.1525E-02	3975.00	0.4316E-03
1475.00	0.1495E-02	4000.00	0.4280E-03
1500.00	0.1467E-02	4025.00	0.4245E-03
1525.00	0.1439E-02	4050.00	0.4210E-03
1550.00	0.1412E-02	4075.00	0.4176E-03
1575.00	0.1386E-02	4100.00	0.4142E-03
1600.00	0.1361E-02	4125.00	0.4109E-03
1625.00	0.1336E-02	4150.00	0.4076E-03
1650.00	0.1312E-02	4175.00	0.4043E-03
1675.00	0.1289E-02	4200.00	0.4011E-03
1700.00	0.1267E-02	4225.00	0.3979E-03
1725.00	0.1245E-02	4250.00	0.3948E-03
1750.00	0.1224E-02	4275.00	0.3917E-03
1775.00	0.1203E-02	4300.00	0.3887E-03
1800.00	0.1183E-02	4325.00	0.3857E-03
1825.00	0.1164E-02	4350.00	0.3827E-03
1850.00	0.1145E-02	4375.00	0.3798E-03
1875.00	0.1126E-02	4400.00	0.3769E-03
1900.00	0.1108E-02	4425.00	0.3741E-03
1925.00	0.1091E-02	4450.00	0.3713E-03
1950.00	0.1074E-02	4475.00	0.3685E-03
1975.00	0.1057E-02	4500.00	0.3657E-03

2000.00	0.1041E-02	4525.00	0.3630E-03
2025.00	0.1025E-02	4550.00	0.3603E-03
2050.00	0.1010E-02	4575.00	0.3577E-03
2075.00	0.9950E-03	4600.00	0.3551E-03
2100.00	0.9804E-03	4625.00	0.3525E-03
2125.00	0.9662E-03	4650.00	0.3500E-03
2150.00	0.9523E-03	4675.00	0.3474E-03
2175.00	0.9387E-03	4700.00	0.3450E-03
2200.00	0.9255E-03	4725.00	0.3425E-03
2225.00	0.9126E-03	4750.00	0.3401E-03
2250.00	0.9000E-03	4775.00	0.3377E-03
2275.00	0.8876E-03	4800.00	0.3353E-03
2300.00	0.8756E-03	4825.00	0.3330E-03
2325.00	0.8638E-03	4850.00	0.3307E-03
2350.00	0.8523E-03	4875.00	0.3284E-03
2375.00	0.8410E-03	4900.00	0.3261E-03
2400.00	0.8300E-03	4925.00	0.3239E-03
2425.00	0.8193E-03	4950.00	0.3217E-03
2450.00	0.8087E-03	4975.00	0.3195E-03
2475.00	0.7984E-03	5000.00	0.3173E-03

 ***** AERSCREEN MAXIMUM IMPACT SUMMARY *****

CALCULATION PROCEDURE	MAXIMUM 1-HOUR CONC (ug/m3)	SCALED 3-HOUR CONC (ug/m3)	SCALED 8-HOUR CONC (ug/m3)	SCALED 24-HOUR CONC (ug/m3)	SCALED ANNUAL CONC (ug/m3)
FLAT TERRAIN	0.1662	0.1662	0.1495	0.9969E-01	0.1662E-01

DISTANCE FROM SOURCE 6.00 meters

IMPACT AT THE AMBIENT BOUNDARY	0.1200E-02	0.1200E-02	0.1080E-02	0.7202E-03	0.1200E-03
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DISTANCE FROM SOURCE 1.00 meters

AERSCREEN FOR PM2.5 (FUGITIVE)

AERSCREEN 16216 / AERMOD 18081

07/08/19
08:46:24

TITLE: 711 STORES AND 76 GAS STATIONS _ CONSTRUCTION PM 2.5 FUGITIV

***** AREA PARAMETERS *****

SOURCE EMISSION RATE:	0.580E-04 g/s	0.460E-03 lb/hr
AREA EMISSION RATE:	0.310E-07 g/(s-m2)	0.246E-06 lb/(hr-m2)
AREA HEIGHT:	2.44 meters	8.00 feet
AREA SOURCE LONG SIDE:	45.72 meters	150.00 feet
AREA SOURCE SHORT SIDE:	40.84 meters	133.99 feet
INITIAL VERTICAL DIMENSION:	2.44 meters	8.01 feet
RURAL OR URBAN:	URBAN	
POPULATION:	1030119	
INITIAL PROBE DISTANCE =	5000. meters	16404. feet

***** BUILDING DOWNWASH PARAMETERS *****

BUILDING DOWNWASH NOT USED FOR NON-POINT SOURCES

***** FLOW SECTOR ANALYSIS *****
25 meter receptor spacing: 1. meters - 5000. meters

MAXIMUM IMPACT RECEPTOR

Zo	SURFACE	1-HR CONC	RADIAL	DIST	TEMPORAL
SECTOR	ROUGHNESS	(ug/m3)	(deg)	(m)	PERIOD
1*	1.000	0.5203	35	25.0	WIN

* = worst case diagonal

***** MAKEMET METEOROLOGY PARAMETERS *****

MIN/MAX TEMPERATURE: 272.0 / 316.5 (K)

MINIMUM WIND SPEED: 0.5 m/s

ANEMOMETER HEIGHT: 10.000 meters

SURFACE CHARACTERISTICS INPUT: AERMET SEASONAL TABLES

DOMINANT SURFACE PROFILE: Urban
 DOMINANT CLIMATE TYPE: Average Moisture
 DOMINANT SEASON: Winter

ALBEDO: 0.35
 BOWEN RATIO: 1.50
 ROUGHNESS LENGTH: 1.000 (meters)

SURFACE FRICTION VELOCITY (U*) NOT ADJUSTED

METEOROLOGY CONDITIONS USED TO PREDICT OVERALL MAXIMUM IMPACT

YR MO DY JDY HR

 10 01 10 10 01

H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O	LEN	Z0	BOWEN	ALBEDO	REF WS
-1.31	0.043	-9.000	0.020	-999.	21.	6.1	1.000	1.50	0.35	0.50	

HT	REF TA	HT
10.0	316.5	2.0

***** AERSCREEN AUTOMATED DISTANCES *****
 OVERALL MAXIMUM CONCENTRATIONS BY DISTANCE

DIST (m)	MAXIMUM 1-HR CONC (ug/m3)	DIST (m)	MAXIMUM 1-HR CONC (ug/m3)
1.00	0.3615	2500.00	0.1042E-02

NEAREST
SENSITIVE
RECEPTOR

25.00	0.5203	2525.00	0.1028E-02
43.89	0.2824	2550.00	0.1014E-02
50.00	0.2297	2575.00	0.1001E-02
75.00	0.1278	2600.00	0.9877E-03
100.00	0.8597E-01	2625.00	0.9748E-03
125.00	0.6332E-01	2650.00	0.9622E-03
150.00	0.4931E-01	2675.00	0.9499E-03
175.00	0.3991E-01	2700.00	0.9379E-03
200.00	0.3323E-01	2725.00	0.9262E-03
225.00	0.2826E-01	2749.99	0.9146E-03
250.00	0.2445E-01	2775.00	0.9034E-03
275.00	0.2145E-01	2800.00	0.8924E-03
300.00	0.1904E-01	2824.99	0.8816E-03
325.00	0.1706E-01	2849.99	0.8710E-03
350.00	0.1540E-01	2875.00	0.8606E-03
375.00	0.1401E-01	2900.00	0.8505E-03
400.00	0.1282E-01	2925.00	0.8406E-03
425.00	0.1180E-01	2950.00	0.8308E-03
450.00	0.1091E-01	2975.00	0.8213E-03
475.00	0.1013E-01	3000.00	0.8119E-03
500.00	0.9443E-02	3025.00	0.8028E-03
525.00	0.8835E-02	3050.00	0.7938E-03
550.00	0.8290E-02	3074.99	0.7849E-03
575.00	0.7800E-02	3100.00	0.7763E-03
600.00	0.7356E-02	3125.00	0.7678E-03
625.00	0.6954E-02	3150.00	0.7595E-03
649.99	0.6588E-02	3174.99	0.7513E-03
675.00	0.6256E-02	3199.99	0.7433E-03
700.00	0.5952E-02	3225.00	0.7354E-03
725.00	0.5697E-02	3250.00	0.7277E-03
750.00	0.5437E-02	3274.99	0.7201E-03
775.00	0.5197E-02	3300.00	0.7126E-03
800.00	0.4975E-02	3325.00	0.7053E-03
825.00	0.4769E-02	3350.00	0.6981E-03
850.00	0.4577E-02	3375.00	0.6910E-03
875.00	0.4398E-02	3400.00	0.6841E-03
900.00	0.4231E-02	3425.00	0.6773E-03
925.00	0.4075E-02	3450.00	0.6705E-03
950.00	0.3928E-02	3475.00	0.6640E-03
975.00	0.3790E-02	3500.00	0.6575E-03
1000.00	0.3661E-02	3525.00	0.6511E-03
1025.00	0.3539E-02	3550.00	0.6448E-03
1050.00	0.3424E-02	3575.00	0.6387E-03
1075.00	0.3315E-02	3599.99	0.6326E-03
1100.00	0.3212E-02	3625.00	0.6266E-03
1125.00	0.3114E-02	3650.00	0.6208E-03
1149.99	0.3022E-02	3674.99	0.6150E-03
1175.00	0.2934E-02	3700.00	0.6093E-03
1200.00	0.2850E-02	3725.00	0.6037E-03
1224.99	0.2771E-02	3750.00	0.5982E-03

1250.00	0.2695E-02	3775.00	0.5928E-03
1275.00	0.2623E-02	3800.00	0.5875E-03
1300.00	0.2554E-02	3825.00	0.5822E-03
1325.00	0.2488E-02	3849.99	0.5771E-03
1350.00	0.2425E-02	3875.00	0.5720E-03
1375.00	0.2364E-02	3900.00	0.5670E-03
1400.00	0.2307E-02	3924.99	0.5620E-03
1425.00	0.2251E-02	3950.00	0.5572E-03
1450.00	0.2198E-02	3975.00	0.5524E-03
1475.00	0.2147E-02	4000.00	0.5477E-03
1500.00	0.2099E-02	4025.00	0.5430E-03
1525.00	0.2052E-02	4050.00	0.5384E-03
1550.00	0.2006E-02	4074.99	0.5339E-03
1575.00	0.1963E-02	4100.00	0.5295E-03
1600.00	0.1921E-02	4125.00	0.5251E-03
1625.00	0.1881E-02	4150.00	0.5208E-03
1650.00	0.1842E-02	4175.00	0.5165E-03
1674.99	0.1804E-02	4200.00	0.5123E-03
1700.00	0.1768E-02	4225.00	0.5082E-03
1725.00	0.1733E-02	4250.00	0.5041E-03
1750.00	0.1699E-02	4275.00	0.5000E-03
1775.00	0.1666E-02	4300.00	0.4961E-03
1800.00	0.1635E-02	4325.00	0.4921E-03
1825.00	0.1604E-02	4349.99	0.4883E-03
1850.00	0.1574E-02	4375.00	0.4845E-03
1875.00	0.1546E-02	4400.00	0.4807E-03
1900.00	0.1518E-02	4425.00	0.4770E-03
1925.00	0.1491E-02	4449.99	0.4733E-03
1950.00	0.1465E-02	4475.00	0.4697E-03
1975.00	0.1439E-02	4500.00	0.4661E-03
2000.00	0.1415E-02	4525.00	0.4626E-03
2025.00	0.1391E-02	4550.00	0.4592E-03
2050.00	0.1368E-02	4575.00	0.4557E-03
2075.00	0.1345E-02	4599.99	0.4523E-03
2100.00	0.1323E-02	4625.00	0.4490E-03
2125.00	0.1302E-02	4650.00	0.4457E-03
2150.00	0.1281E-02	4675.00	0.4424E-03
2175.00	0.1261E-02	4700.00	0.4392E-03
2200.00	0.1242E-02	4725.00	0.4360E-03
2225.00	0.1223E-02	4750.00	0.4329E-03
2250.00	0.1204E-02	4774.99	0.4298E-03
2275.00	0.1186E-02	4800.00	0.4268E-03
2300.00	0.1168E-02	4825.00	0.4237E-03
2325.00	0.1151E-02	4850.00	0.4207E-03
2350.00	0.1134E-02	4875.00	0.4178E-03
2375.00	0.1118E-02	4900.00	0.4149E-03
2400.00	0.1102E-02	4924.99	0.4120E-03
2425.00	0.1087E-02	4950.00	0.4092E-03
2450.00	0.1071E-02	4975.00	0.4064E-03
2475.00	0.1057E-02	4999.99	0.4036E-03

 ***** AERSCREEN MAXIMUM IMPACT SUMMARY *****

3-hour, 8-hour, and 24-hour scaled concentrations are equal to the 1-hour concentration as referenced in SCREENING PROCEDURES FOR ESTIMATING THE AIR QUALITY IMPACT OF STATIONARY SOURCES, REVISED (Section 4.5.4)
 Report number EPA-454/R-92-019
http://www.epa.gov/scram001/guidance_permit.htm
 under Screening Guidance

CALCULATION PROCEDURE	MAXIMUM 1-HOUR CONC (ug/m3)	SCALED 3-HOUR CONC (ug/m3)	SCALED 8-HOUR CONC (ug/m3)	SCALED 24-HOUR CONC (ug/m3)	SCALED ANNUAL CONC (ug/m3)
FLAT TERRAIN	0.5277	0.5277	0.5277	0.5277	N/A
DISTANCE FROM SOURCE	27.00 meters				
IMPACT AT THE AMBIENT BOUNDARY	0.3615	0.3615	0.3615	0.3615	N/A
DISTANCE FROM SOURCE	1.00 meters				

HARP2 RAST OUTPUT
7-11 CONVENIENCE STORE AND 76 RETAIL GAS STATION
6211 SANTA TERESA BLVD., SAN JOSE, CA 95199

RESIDENTIAL_CANCER RISK

POLABBREV	POLID	CONC	RISK_SUM	SCENARIO
DieselExhPM	9901	0.01314	2.34E-06	1YrCancerDerived_Inh_FAH16to70

RESIDENTIAL_NON CANCER RISK

POLABBREV	POLID	CONC	RESP	SCENARIO
DieselExhPM	9901	0.01268	2.54E-03	NonCancerChronicDerived_Inh

WORKER_CANCER RISK

POLABBREV	POLID	CONC	RISK_SUM	SCENARIO
DieselExhPM	9901	0.02335	6.03E-08	1YrCancerDerived_InhSoilDerm

WORKER_NON CANCER RISK

POLABBREV	POLID	CONC	RESP	SCENARIO
DieselExhPM	9901	0.02335	4.67E-03	NonCancerChronicDerived_InhSoilDermMMilk

Note:

1. AERSCREEN and HARP2 RAST were used to model and estimate the cancer risk and non-cancer risk hazard index.
2. There is no acute risk for Diesel PM.
3. The only pathway for Cancer risk and chronic risk of Diesel PM is through inhalation or respiratory system.