

1050 Parker Street - Alameda County, Annual

**1050 Parker Street**  
**Alameda County, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	60.25	1000sqft	1.38	60,250.00	0
Parking Lot	238.00	Space	1.20	95,200.00	0
Fast Food Restaurant w/o Drive Thru	0.75	1000sqft	0.02	750.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	5			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

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Project Characteristics -

Land Use - Source: site plan

Construction Phase - Updated architectural coating phase to reflect more accurate construction schedule

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Per project construction schedule

Trips and VMT -

Demolition -

Grading - Per project plans

Vehicle Trips - Per Traffic Study and traffic memo and proportional cafe decrease on weekends consistent w/ medical building

Area Coating -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

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Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	84.00
tblConstructionPhase	PhaseEndDate	8/13/2020	7/30/2020
tblConstructionPhase	PhaseStartDate	7/31/2020	4/6/2020
tblGrading	AcresOfGrading	3.00	28.00
tblGrading	AcresOfGrading	4.50	3.00
tblGrading	MaterialImported	0.00	2,625.00
tblLandUse	LotAcreage	2.14	1.20
tblVehicleTrips	CC_TL	7.30	2.00
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	2.00
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	DV_TP	37.00	42.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PR_TP	51.00	58.00
tblVehicleTrips	ST_TR	696.00	109.20
tblVehicleTrips	SU_TR	500.00	21.80
tblVehicleTrips	WD_TR	716.00	364.00
tblVehicleTrips	WD_TR	36.13	28.60

## 2.0 Emissions Summary

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Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	8-5-2019	11-4-2019	0.9157	0.9157
2	11-5-2019	2-4-2020	0.8070	0.8070
3	2-5-2020	5-4-2020	0.8510	0.8510
4	5-5-2020	8-4-2020	0.9825	0.9825
		Highest	0.9825	0.9825

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	0.2784	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3400e-003	5.3400e-003	1.0000e-005	0.0000	5.7000e-003
Energy	6.9600e-003	0.0633	0.0531	3.8000e-004		4.8100e-003	4.8100e-003		4.8100e-003	4.8100e-003	0.0000	303.6281	303.6281	0.0119	3.4600e-003	304.9573
Mobile	0.3718	2.2614	3.2951	0.0104	0.7263	0.0104	0.7367	0.1952	9.7600e-003	0.2050	0.0000	960.5066	960.5066	0.0536	0.0000	961.8455
Waste						0.0000	0.0000		0.0000	0.0000	133.8401	0.0000	133.8401	7.9097	0.0000	331.5831
Water						0.0000	0.0000		0.0000	0.0000	2.4707	13.7401	16.2108	0.2544	6.1200e-003	24.3944
<b>Total</b>	<b>0.6572</b>	<b>2.3247</b>	<b>3.3510</b>	<b>0.0108</b>	<b>0.7263</b>	<b>0.0152</b>	<b>0.7415</b>	<b>0.1952</b>	<b>0.0146</b>	<b>0.2098</b>	<b>136.3108</b>	<b>1,277.8801</b>	<b>1,414.1909</b>	<b>8.2296</b>	<b>9.5800e-003</b>	<b>1,622.7860</b>

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**2.2 Overall Operational**

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.2784	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3400e-003	5.3400e-003	1.0000e-005	0.0000	5.7000e-003
Energy	5.9200e-003	0.0538	0.0452	3.2000e-004		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	281.0277	281.0277	0.0112	3.1600e-003	282.2474
Mobile	0.3571	2.1270	2.9742	8.9500e-003	0.6041	8.9600e-003	0.6131	0.1624	8.4200e-003	0.1708	0.0000	826.3491	826.3491	0.0499	0.0000	827.5953
Waste						0.0000	0.0000		0.0000	0.0000	33.4600	0.0000	33.4600	1.9774	0.0000	82.8958
Water						0.0000	0.0000		0.0000	0.0000	2.4707	13.7401	16.2108	0.2544	6.1200e-003	24.3944
<b>Total</b>	<b>0.6415</b>	<b>2.1808</b>	<b>3.0222</b>	<b>9.2700e-003</b>	<b>0.6041</b>	<b>0.0131</b>	<b>0.6172</b>	<b>0.1624</b>	<b>0.0125</b>	<b>0.1749</b>	<b>35.9308</b>	<b>1,121.1222</b>	<b>1,157.0529</b>	<b>2.2929</b>	<b>9.2800e-003</b>	<b>1,217.1386</b>

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N2O	CO2e
<b>Percent Reduction</b>	<b>2.39</b>	<b>6.19</b>	<b>9.81</b>	<b>14.09</b>	<b>16.82</b>	<b>14.14</b>	<b>16.77</b>	<b>16.82</b>	<b>14.13</b>	<b>16.64</b>	<b>73.64</b>	<b>12.27</b>	<b>18.18</b>	<b>72.14</b>	<b>3.13</b>	<b>25.00</b>

**3.0 Construction Detail**

**Construction Phase**

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Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/5/2019	8/30/2019	5	20	
2	Site Preparation	Site Preparation	8/31/2019	9/4/2019	5	3	
3	Grading	Grading	9/5/2019	9/12/2019	5	6	
4	Building Construction	Building Construction	9/13/2019	7/16/2020	5	220	
5	Paving	Paving	7/17/2020	7/30/2020	5	10	
6	Architectural Coating	Architectural Coating	4/6/2020	7/30/2020	5	84	

**Acres of Grading (Site Preparation Phase): 3**

**Acres of Grading (Grading Phase): 28**

**Acres of Paving: 1.2**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 91,500; Non-Residential Outdoor: 30,500; Striped Parking Area: 5,712 (Architectural Coating – sqft)**

**OffRoad Equipment**

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

**Trips and VMT**



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Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	118.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	328.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	60.00	26.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0128	0.0000	0.0128	1.9400e-003	0.0000	1.9400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2268	0.1489	2.4000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524
<b>Total</b>	<b>0.0230</b>	<b>0.2268</b>	<b>0.1489</b>	<b>2.4000e-004</b>	<b>0.0128</b>	<b>0.0129</b>	<b>0.0257</b>	<b>1.9400e-003</b>	<b>0.0120</b>	<b>0.0140</b>	<b>0.0000</b>	<b>21.4161</b>	<b>21.4161</b>	<b>5.4500e-003</b>	<b>0.0000</b>	<b>21.5524</b>

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**3.2 Demolition - 2019**

**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	5.4000e-004	0.0183	3.1300e-003	5.0000e-005	1.0000e-003	7.0000e-005	1.0700e-003	2.7000e-004	6.0000e-005	3.4000e-004	0.0000	4.5655	4.5655	2.4000e-004	0.0000	4.5715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.8000e-004	3.7900e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0400e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9429	0.9429	3.0000e-005	0.0000	0.9436
<b>Total</b>	<b>1.0300e-003</b>	<b>0.0187</b>	<b>6.9200e-003</b>	<b>6.0000e-005</b>	<b>2.0300e-003</b>	<b>8.0000e-005</b>	<b>2.1100e-003</b>	<b>5.4000e-004</b>	<b>7.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>5.5084</b>	<b>5.5084</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>5.5150</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					5.7600e-003	0.0000	5.7600e-003	8.7000e-004	0.0000	8.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0230	0.2268	0.1489	2.4000e-004		0.0129	0.0129		0.0120	0.0120	0.0000	21.4161	21.4161	5.4500e-003	0.0000	21.5524
<b>Total</b>	<b>0.0230</b>	<b>0.2268</b>	<b>0.1489</b>	<b>2.4000e-004</b>	<b>5.7600e-003</b>	<b>0.0129</b>	<b>0.0186</b>	<b>8.7000e-004</b>	<b>0.0120</b>	<b>0.0129</b>	<b>0.0000</b>	<b>21.4161</b>	<b>21.4161</b>	<b>5.4500e-003</b>	<b>0.0000</b>	<b>21.5524</b>

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**3.2 Demolition - 2019**

**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	5.4000e-004	0.0183	3.1300e-003	5.0000e-005	1.0000e-003	7.0000e-005	1.0700e-003	2.7000e-004	6.0000e-005	3.4000e-004	0.0000	4.5655	4.5655	2.4000e-004	0.0000	4.5715
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.9000e-004	3.8000e-004	3.7900e-003	1.0000e-005	1.0300e-003	1.0000e-005	1.0400e-003	2.7000e-004	1.0000e-005	2.8000e-004	0.0000	0.9429	0.9429	3.0000e-005	0.0000	0.9436
<b>Total</b>	<b>1.0300e-003</b>	<b>0.0187</b>	<b>6.9200e-003</b>	<b>6.0000e-005</b>	<b>2.0300e-003</b>	<b>8.0000e-005</b>	<b>2.1100e-003</b>	<b>5.4000e-004</b>	<b>7.0000e-005</b>	<b>6.2000e-004</b>	<b>0.0000</b>	<b>5.5084</b>	<b>5.5084</b>	<b>2.7000e-004</b>	<b>0.0000</b>	<b>5.5150</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					1.5900e-003	0.0000	1.5900e-003	1.7000e-004	0.0000	1.7000e-004	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2300e-003	0.0517	0.0300	6.0000e-005		2.0400e-003	2.0400e-003		1.8800e-003	1.8800e-003	0.0000	5.3429	5.3429	1.6900e-003	0.0000	5.3852
<b>Total</b>	<b>4.2300e-003</b>	<b>0.0517</b>	<b>0.0300</b>	<b>6.0000e-005</b>	<b>1.5900e-003</b>	<b>2.0400e-003</b>	<b>3.6300e-003</b>	<b>1.7000e-004</b>	<b>1.8800e-003</b>	<b>2.0500e-003</b>	<b>0.0000</b>	<b>5.3429</b>	<b>5.3429</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>5.3852</b>

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**3.3 Site Preparation - 2019**

**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	6.0000e-005	4.0000e-005	4.4000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1088	0.1088	0.0000	0.0000	0.1089
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1088</b>	<b>0.1088</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1089</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					7.2000e-004	0.0000	7.2000e-004	8.0000e-005	0.0000	8.0000e-005	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.2300e-003	0.0517	0.0300	6.0000e-005		2.0400e-003	2.0400e-003		1.8800e-003	1.8800e-003	0.0000	5.3429	5.3429	1.6900e-003	0.0000	5.3852
<b>Total</b>	<b>4.2300e-003</b>	<b>0.0517</b>	<b>0.0300</b>	<b>6.0000e-005</b>	<b>7.2000e-004</b>	<b>2.0400e-003</b>	<b>2.7600e-003</b>	<b>8.0000e-005</b>	<b>1.8800e-003</b>	<b>1.9600e-003</b>	<b>0.0000</b>	<b>5.3429</b>	<b>5.3429</b>	<b>1.6900e-003</b>	<b>0.0000</b>	<b>5.3852</b>

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**3.3 Site Preparation - 2019**

**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	6.0000e-005	4.0000e-005	4.4000e-004	0.0000	1.2000e-004	0.0000	1.2000e-004	3.0000e-005	0.0000	3.0000e-005	0.0000	0.1088	0.1088	0.0000	0.0000	0.1089
<b>Total</b>	<b>6.0000e-005</b>	<b>4.0000e-005</b>	<b>4.4000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>0.0000</b>	<b>1.2000e-004</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>3.0000e-005</b>	<b>0.0000</b>	<b>0.1088</b>	<b>0.1088</b>	<b>0.0000</b>	<b>0.0000</b>	<b>0.1089</b>

**3.4 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0331	0.0000	0.0331	0.0116	0.0000	0.0116	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0682	0.0305	6.0000e-005		3.2200e-003	3.2200e-003		2.9600e-003	2.9600e-003	0.0000	5.5554	5.5554	1.7600e-003	0.0000	5.5993
<b>Total</b>	<b>6.0900e-003</b>	<b>0.0682</b>	<b>0.0305</b>	<b>6.0000e-005</b>	<b>0.0331</b>	<b>3.2200e-003</b>	<b>0.0363</b>	<b>0.0116</b>	<b>2.9600e-003</b>	<b>0.0145</b>	<b>0.0000</b>	<b>5.5554</b>	<b>5.5554</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.5993</b>

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**3.4 Grading - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4900e-003	0.0510	8.7000e-003	1.3000e-004	2.7800e-003	1.8000e-004	2.9600e-003	7.6000e-004	1.8000e-004	9.4000e-004	0.0000	12.6906	12.6906	6.6000e-004	0.0000	12.7071
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	1.1000e-004	9.0000e-005	8.7000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2176	0.2176	1.0000e-005	0.0000	0.2177
<b>Total</b>	<b>1.6000e-003</b>	<b>0.0511</b>	<b>9.5700e-003</b>	<b>1.3000e-004</b>	<b>3.0200e-003</b>	<b>1.8000e-004</b>	<b>3.2000e-003</b>	<b>8.2000e-004</b>	<b>1.8000e-004</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>12.9082</b>	<b>12.9082</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>12.9249</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0149	0.0000	0.0149	5.2000e-003	0.0000	5.2000e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	6.0900e-003	0.0682	0.0305	6.0000e-005		3.2200e-003	3.2200e-003		2.9600e-003	2.9600e-003	0.0000	5.5554	5.5554	1.7600e-003	0.0000	5.5993
<b>Total</b>	<b>6.0900e-003</b>	<b>0.0682</b>	<b>0.0305</b>	<b>6.0000e-005</b>	<b>0.0149</b>	<b>3.2200e-003</b>	<b>0.0181</b>	<b>5.2000e-003</b>	<b>2.9600e-003</b>	<b>8.1600e-003</b>	<b>0.0000</b>	<b>5.5554</b>	<b>5.5554</b>	<b>1.7600e-003</b>	<b>0.0000</b>	<b>5.5993</b>

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**3.4 Grading - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.4900e-003	0.0510	8.7000e-003	1.3000e-004	2.7800e-003	1.8000e-004	2.9600e-003	7.6000e-004	1.8000e-004	9.4000e-004	0.0000	12.6906	12.6906	6.6000e-004	0.0000	12.7071
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	1.1000e-004	9.0000e-005	8.7000e-004	0.0000	2.4000e-004	0.0000	2.4000e-004	6.0000e-005	0.0000	6.0000e-005	0.0000	0.2176	0.2176	1.0000e-005	0.0000	0.2177
<b>Total</b>	<b>1.6000e-003</b>	<b>0.0511</b>	<b>9.5700e-003</b>	<b>1.3000e-004</b>	<b>3.0200e-003</b>	<b>1.8000e-004</b>	<b>3.2000e-003</b>	<b>8.2000e-004</b>	<b>1.8000e-004</b>	<b>1.0000e-003</b>	<b>0.0000</b>	<b>12.9082</b>	<b>12.9082</b>	<b>6.7000e-004</b>	<b>0.0000</b>	<b>12.9249</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0998	0.7375	0.5949	9.8000e-004		0.0425	0.0425		0.0408	0.0408	0.0000	81.8042	81.8042	0.0170	0.0000	82.2296
<b>Total</b>	<b>0.0998</b>	<b>0.7375</b>	<b>0.5949</b>	<b>9.8000e-004</b>		<b>0.0425</b>	<b>0.0425</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>81.8042</b>	<b>81.8042</b>	<b>0.0170</b>	<b>0.0000</b>	<b>82.2296</b>

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**3.5 Building Construction - 2019**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5700e-003	0.1297	0.0287	2.8000e-004	6.6600e-003	8.3000e-004	7.4900e-003	1.9300e-003	7.9000e-004	2.7200e-003	0.0000	27.0104	27.0104	1.6600e-003	0.0000	27.0520
Worker	8.8600e-003	6.7600e-003	0.0682	1.9000e-004	0.0185	1.3000e-004	0.0186	4.9200e-003	1.2000e-004	5.0400e-003	0.0000	16.9718	16.9718	4.8000e-004	0.0000	16.9839
<b>Total</b>	<b>0.0134</b>	<b>0.1364</b>	<b>0.0969</b>	<b>4.7000e-004</b>	<b>0.0252</b>	<b>9.6000e-004</b>	<b>0.0261</b>	<b>6.8500e-003</b>	<b>9.1000e-004</b>	<b>7.7600e-003</b>	<b>0.0000</b>	<b>43.9823</b>	<b>43.9823</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>44.0360</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0998	0.7375	0.5949	9.8000e-004		0.0425	0.0425		0.0408	0.0408	0.0000	81.8041	81.8041	0.0170	0.0000	82.2295
<b>Total</b>	<b>0.0998</b>	<b>0.7375</b>	<b>0.5949</b>	<b>9.8000e-004</b>		<b>0.0425</b>	<b>0.0425</b>		<b>0.0408</b>	<b>0.0408</b>	<b>0.0000</b>	<b>81.8041</b>	<b>81.8041</b>	<b>0.0170</b>	<b>0.0000</b>	<b>82.2295</b>



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**3.5 Building Construction - 2019**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	4.5700e-003	0.1297	0.0287	2.8000e-004	6.6600e-003	8.3000e-004	7.4900e-003	1.9300e-003	7.9000e-004	2.7200e-003	0.0000	27.0104	27.0104	1.6600e-003	0.0000	27.0520
Worker	8.8600e-003	6.7600e-003	0.0682	1.9000e-004	0.0185	1.3000e-004	0.0186	4.9200e-003	1.2000e-004	5.0400e-003	0.0000	16.9718	16.9718	4.8000e-004	0.0000	16.9839
<b>Total</b>	<b>0.0134</b>	<b>0.1364</b>	<b>0.0969</b>	<b>4.7000e-004</b>	<b>0.0252</b>	<b>9.6000e-004</b>	<b>0.0261</b>	<b>6.8500e-003</b>	<b>9.1000e-004</b>	<b>7.7600e-003</b>	<b>0.0000</b>	<b>43.9823</b>	<b>43.9823</b>	<b>2.1400e-003</b>	<b>0.0000</b>	<b>44.0360</b>

**3.5 Building Construction - 2020**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1624	1.2378	1.0577	1.7800e-003		0.0673	0.0673		0.0645	0.0645	0.0000	147.4275	147.4275	0.0299	0.0000	148.1756
<b>Total</b>	<b>0.1624</b>	<b>1.2378</b>	<b>1.0577</b>	<b>1.7800e-003</b>		<b>0.0673</b>	<b>0.0673</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>147.4275</b>	<b>147.4275</b>	<b>0.0299</b>	<b>0.0000</b>	<b>148.1756</b>

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**3.5 Building Construction - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9300e-003	0.2170	0.0468	5.1000e-004	0.0121	1.0100e-003	0.0131	3.5100e-003	9.6000e-004	4.4700e-003	0.0000	48.8286	48.8286	2.8100e-003	0.0000	48.8988
Worker	0.0147	0.0109	0.1115	3.3000e-004	0.0337	2.3000e-004	0.0339	8.9600e-003	2.2000e-004	9.1800e-003	0.0000	29.9416	29.9416	7.7000e-004	0.0000	29.9610
<b>Total</b>	<b>0.0217</b>	<b>0.2279</b>	<b>0.1582</b>	<b>8.4000e-004</b>	<b>0.0458</b>	<b>1.2400e-003</b>	<b>0.0471</b>	<b>0.0125</b>	<b>1.1800e-003</b>	<b>0.0137</b>	<b>0.0000</b>	<b>78.7703</b>	<b>78.7703</b>	<b>3.5800e-003</b>	<b>0.0000</b>	<b>78.8598</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1624	1.2378	1.0577	1.7800e-003		0.0673	0.0673		0.0645	0.0645	0.0000	147.4274	147.4274	0.0299	0.0000	148.1754
<b>Total</b>	<b>0.1624</b>	<b>1.2378</b>	<b>1.0577</b>	<b>1.7800e-003</b>		<b>0.0673</b>	<b>0.0673</b>		<b>0.0645</b>	<b>0.0645</b>	<b>0.0000</b>	<b>147.4274</b>	<b>147.4274</b>	<b>0.0299</b>	<b>0.0000</b>	<b>148.1754</b>

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**3.5 Building Construction - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.9300e-003	0.2170	0.0468	5.1000e-004	0.0121	1.0100e-003	0.0131	3.5100e-003	9.6000e-004	4.4700e-003	0.0000	48.8286	48.8286	2.8100e-003	0.0000	48.8988
Worker	0.0147	0.0109	0.1115	3.3000e-004	0.0337	2.3000e-004	0.0339	8.9600e-003	2.2000e-004	9.1800e-003	0.0000	29.9416	29.9416	7.7000e-004	0.0000	29.9610
<b>Total</b>	<b>0.0217</b>	<b>0.2279</b>	<b>0.1582</b>	<b>8.4000e-004</b>	<b>0.0458</b>	<b>1.2400e-003</b>	<b>0.0471</b>	<b>0.0125</b>	<b>1.1800e-003</b>	<b>0.0137</b>	<b>0.0000</b>	<b>78.7703</b>	<b>78.7703</b>	<b>3.5800e-003</b>	<b>0.0000</b>	<b>78.8598</b>

**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	5.7700e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143
Paving	1.5700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.3400e-003</b>	<b>0.0579</b>	<b>0.0590</b>	<b>9.0000e-005</b>		<b>3.2800e-003</b>	<b>3.2800e-003</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>	<b>0.0000</b>	<b>7.7529</b>	<b>7.7529</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8143</b>

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**3.6 Paving - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.9000e-004	1.9600e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5271	0.5271	1.0000e-005	0.0000	0.5275
<b>Total</b>	<b>2.6000e-004</b>	<b>1.9000e-004</b>	<b>1.9600e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5271</b>	<b>0.5271</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5275</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	5.7700e-003	0.0579	0.0590	9.0000e-005		3.2800e-003	3.2800e-003		3.0300e-003	3.0300e-003	0.0000	7.7529	7.7529	2.4600e-003	0.0000	7.8143
Paving	1.5700e-003					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>	<b>7.3400e-003</b>	<b>0.0579</b>	<b>0.0590</b>	<b>9.0000e-005</b>		<b>3.2800e-003</b>	<b>3.2800e-003</b>		<b>3.0300e-003</b>	<b>3.0300e-003</b>	<b>0.0000</b>	<b>7.7529</b>	<b>7.7529</b>	<b>2.4600e-003</b>	<b>0.0000</b>	<b>7.8143</b>

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**3.6 Paving - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.6000e-004	1.9000e-004	1.9600e-003	1.0000e-005	5.9000e-004	0.0000	6.0000e-004	1.6000e-004	0.0000	1.6000e-004	0.0000	0.5271	0.5271	1.0000e-005	0.0000	0.5275
<b>Total</b>	<b>2.6000e-004</b>	<b>1.9000e-004</b>	<b>1.9600e-003</b>	<b>1.0000e-005</b>	<b>5.9000e-004</b>	<b>0.0000</b>	<b>6.0000e-004</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>1.6000e-004</b>	<b>0.0000</b>	<b>0.5271</b>	<b>0.5271</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>0.5275</b>

**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	0.3379					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0707	0.0769	1.2000e-004		4.6600e-003	4.6600e-003		4.6600e-003	4.6600e-003	0.0000	10.7237	10.7237	8.3000e-004	0.0000	10.7444
<b>Total</b>	<b>0.3481</b>	<b>0.0707</b>	<b>0.0769</b>	<b>1.2000e-004</b>		<b>4.6600e-003</b>	<b>4.6600e-003</b>		<b>4.6600e-003</b>	<b>4.6600e-003</b>	<b>0.0000</b>	<b>10.7237</b>	<b>10.7237</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>10.7444</b>

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**3.7 Architectural Coating - 2020**

**Unmitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7400e-003	1.2900e-003	0.0132	4.0000e-005	3.9800e-003	3.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.5424	3.5424	9.0000e-005	0.0000	3.5447
<b>Total</b>	<b>1.7400e-003</b>	<b>1.2900e-003</b>	<b>0.0132</b>	<b>4.0000e-005</b>	<b>3.9800e-003</b>	<b>3.0000e-005</b>	<b>4.0100e-003</b>	<b>1.0600e-003</b>	<b>3.0000e-005</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>3.5424</b>	<b>3.5424</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.5447</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.3379					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0102	0.0707	0.0769	1.2000e-004		4.6600e-003	4.6600e-003		4.6600e-003	4.6600e-003	0.0000	10.7237	10.7237	8.3000e-004	0.0000	10.7444
<b>Total</b>	<b>0.3481</b>	<b>0.0707</b>	<b>0.0769</b>	<b>1.2000e-004</b>		<b>4.6600e-003</b>	<b>4.6600e-003</b>		<b>4.6600e-003</b>	<b>4.6600e-003</b>	<b>0.0000</b>	<b>10.7237</b>	<b>10.7237</b>	<b>8.3000e-004</b>	<b>0.0000</b>	<b>10.7444</b>

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**3.7 Architectural Coating - 2020**

**Mitigated Construction Off-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.7400e-003	1.2900e-003	0.0132	4.0000e-005	3.9800e-003	3.0000e-005	4.0100e-003	1.0600e-003	3.0000e-005	1.0900e-003	0.0000	3.5424	3.5424	9.0000e-005	0.0000	3.5447
<b>Total</b>	<b>1.7400e-003</b>	<b>1.2900e-003</b>	<b>0.0132</b>	<b>4.0000e-005</b>	<b>3.9800e-003</b>	<b>3.0000e-005</b>	<b>4.0100e-003</b>	<b>1.0600e-003</b>	<b>3.0000e-005</b>	<b>1.0900e-003</b>	<b>0.0000</b>	<b>3.5424</b>	<b>3.5424</b>	<b>9.0000e-005</b>	<b>0.0000</b>	<b>3.5447</b>

**4.0 Operational Detail - Mobile**

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**4.1 Mitigation Measures Mobile**

Increase Diversity

Improve Pedestrian Network

Implement Trip Reduction Program

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	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3571	2.1270	2.9742	8.9500e-003	0.6041	8.9600e-003	0.6131	0.1624	8.4200e-003	0.1708	0.0000	826.3491	826.3491	0.0499	0.0000	827.5953
Unmitigated	0.3718	2.2614	3.2951	0.0104	0.7263	0.0104	0.7367	0.1952	9.7600e-003	0.2050	0.0000	960.5066	960.5066	0.0536	0.0000	961.8455

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant w/o Drive Thru	273.00	81.90	16.35	110,106	91,835
Medical Office Building	1,723.15	539.84	93.39	1,831,878	1,523,449
Parking Lot	0.00	0.00	0.00		
Total	1,996.15	621.74	109.74	1,941,984	1,615,285

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
Fast Food Restaurant w/o Drive	9.50	2.00	2.00	1.50	79.50	19.00	58	42	0
Medical Office Building	9.50	4.00	4.00	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix



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Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant w/o Drive Thru	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739
Medical Office Building	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739
Parking Lot	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	222.4426	222.4426	0.0101	2.0800e-003	223.3142
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	234.7583	234.7583	0.0106	2.2000e-003	235.6781
NaturalGas Mitigated	5.9200e-003	0.0538	0.0452	3.2000e-004		4.0900e-003	4.0900e-003		4.0900e-003	4.0900e-003	0.0000	58.5851	58.5851	1.1200e-003	1.0700e-003	58.9332
NaturalGas Unmitigated	6.9600e-003	0.0633	0.0531	3.8000e-004		4.8100e-003	4.8100e-003		4.8100e-003	4.8100e-003	0.0000	68.8699	68.8699	1.3200e-003	1.2600e-003	69.2791

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**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant w/o Drive Thru	125940	6.8000e-004	6.1700e-003	5.1900e-003	4.0000e-005		4.7000e-004	4.7000e-004		4.7000e-004	4.7000e-004	0.0000	6.7206	6.7206	1.3000e-004	1.2000e-004	6.7606
Medical Office Building	1.16463e+006	6.2800e-003	0.0571	0.0480	3.4000e-004		4.3400e-003	4.3400e-003		4.3400e-003	4.3400e-003	0.0000	62.1492	62.1492	1.1900e-003	1.1400e-003	62.5186
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>6.9600e-003</b>	<b>0.0633</b>	<b>0.0532</b>	<b>3.8000e-004</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>		<b>4.8100e-003</b>	<b>4.8100e-003</b>	<b>0.0000</b>	<b>68.8699</b>	<b>68.8699</b>	<b>1.3200e-003</b>	<b>1.2600e-003</b>	<b>69.2791</b>

**Mitigated**

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Fast Food Restaurant w/o Drive Thru	120853	6.5000e-004	5.9200e-003	4.9800e-003	4.0000e-005		4.5000e-004	4.5000e-004		4.5000e-004	4.5000e-004	0.0000	6.4492	6.4492	1.2000e-004	1.2000e-004	6.4875
Medical Office Building	976990	5.2700e-003	0.0479	0.0402	2.9000e-004		3.6400e-003	3.6400e-003		3.6400e-003	3.6400e-003	0.0000	52.1359	52.1359	1.0000e-003	9.6000e-004	52.4457
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>5.9200e-003</b>	<b>0.0538</b>	<b>0.0452</b>	<b>3.3000e-004</b>		<b>4.0900e-003</b>	<b>4.0900e-003</b>		<b>4.0900e-003</b>	<b>4.0900e-003</b>	<b>0.0000</b>	<b>58.5851</b>	<b>58.5851</b>	<b>1.1200e-003</b>	<b>1.0800e-003</b>	<b>58.9332</b>

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### 5.3 Energy by Land Use - Electricity

#### Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant w/o Drive Thru	21735	6.3230	2.9000e-004	6.0000e-005	6.3477
Medical Office Building	751920	218.7422	9.8900e-003	2.0500e-003	219.5993
Parking Lot	33320	9.6932	4.4000e-004	9.0000e-005	9.7312
<b>Total</b>		<b>234.7583</b>	<b>0.0106</b>	<b>2.2000e-003</b>	<b>235.6781</b>

#### Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Fast Food Restaurant w/o Drive Thru	21394.6	6.2239	2.8000e-004	6.0000e-005	6.2483
Medical Office Building	709926	206.5255	9.3400e-003	1.9300e-003	207.3348
Parking Lot	33320	9.6932	4.4000e-004	9.0000e-005	9.7312
<b>Total</b>		<b>222.4426</b>	<b>0.0101</b>	<b>2.0800e-003</b>	<b>223.3142</b>

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**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	tons/yr										MT/yr					
Mitigated	0.2784	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3400e-003	5.3400e-003	1.0000e-005	0.0000	5.7000e-003
Unmitigated	0.2784	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3400e-003	5.3400e-003	1.0000e-005	0.0000	5.7000e-003

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**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	0.0338					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2444					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3400e-003	5.3400e-003	1.0000e-005	0.0000	5.7000e-003
<b>Total</b>	<b>0.2784</b>	<b>3.0000e-005</b>	<b>2.7600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.3400e-003</b>	<b>5.3400e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7000e-003</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0338					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.2444					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	2.6000e-004	3.0000e-005	2.7600e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	5.3400e-003	5.3400e-003	1.0000e-005	0.0000	5.7000e-003
<b>Total</b>	<b>0.2784</b>	<b>3.0000e-005</b>	<b>2.7600e-003</b>	<b>0.0000</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>		<b>1.0000e-005</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.3400e-003</b>	<b>5.3400e-003</b>	<b>1.0000e-005</b>	<b>0.0000</b>	<b>5.7000e-003</b>

**7.0 Water Detail**

### 7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	16.2108	0.2544	6.1200e-003	24.3944
Unmitigated	16.2108	0.2544	6.1200e-003	24.3944

### 7.2 Water by Land Use

#### Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant w/o Drive Thru	0.22765 / 0.0145309	0.4454	7.4300e-003	1.8000e-004	0.6845
Medical Office Building	7.5602 / 1.44004	15.7654	0.2470	5.9400e-003	23.7099
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>16.2108</b>	<b>0.2544</b>	<b>6.1200e-003</b>	<b>24.3944</b>

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**7.2 Water by Land Use**

**Mitigated**

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Fast Food Restaurant w/o Drive Thru	0.22765 / 0.0145309	0.4454	7.4300e-003	1.8000e-004	0.6845
Medical Office Building	7.5602 / 1.44004	15.7654	0.2470	5.9400e-003	23.7099
Parking Lot	0 / 0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>16.2108</b>	<b>0.2544</b>	<b>6.1200e-003</b>	<b>24.3944</b>

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

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**Category/Year**

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	33.4600	1.9774	0.0000	82.8958
Unmitigated	133.8401	7.9097	0.0000	331.5831

**8.2 Waste by Land Use**

**Unmitigated**

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant w/o Drive Thru	8.64	1.7538	0.1037	0.0000	4.3451
Medical Office Building	650.7	132.0862	7.8061	0.0000	327.2380
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>133.8401</b>	<b>7.9097</b>	<b>0.0000</b>	<b>331.5831</b>



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### 8.2 Waste by Land Use

#### Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Fast Food Restaurant w/o Drive Thru	2.16	0.4385	0.0259	0.0000	1.0863
Medical Office Building	162.675	33.0216	1.9515	0.0000	81.8095
Parking Lot	0	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>33.4600</b>	<b>1.9774</b>	<b>0.0000</b>	<b>82.8958</b>

### 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
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## 11.0 Vegetation

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1050 Parker Street - Alameda County, Summer

**1050 Parker Street**  
**Alameda County, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	60.25	1000sqft	1.38	60,250.00	0
Parking Lot	238.00	Space	1.20	95,200.00	0
Fast Food Restaurant w/o Drive Thru	0.75	1000sqft	0.02	750.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	5			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

1050 Parker Street - Alameda County, Summer

Project Characteristics -

Land Use - Source: site plan

Construction Phase - Updated architectural coating phase to reflect more accurate construction schedule

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Per project construction schedule

Trips and VMT -

Demolition -

Grading - Per project plans

Vehicle Trips - Per Traffic Study and traffic memo and proportional cafe decrease on weekends consistent w/ medical building

Area Coating -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation -

## 1050 Parker Street - Alameda County, Summer

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	84.00
tblConstructionPhase	PhaseEndDate	8/13/2020	7/30/2020
tblConstructionPhase	PhaseStartDate	7/31/2020	4/6/2020
tblGrading	AcresOfGrading	3.00	28.00
tblGrading	AcresOfGrading	4.50	3.00
tblGrading	MaterialImported	0.00	2,625.00
tblLandUse	LotAcreage	2.14	1.20
tblVehicleTrips	CC_TL	7.30	2.00
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	2.00
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	DV_TP	37.00	42.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PR_TP	51.00	58.00
tblVehicleTrips	ST_TR	696.00	109.20
tblVehicleTrips	SU_TR	500.00	21.80
tblVehicleTrips	WD_TR	716.00	364.00
tblVehicleTrips	WD_TR	36.13	28.60

## 2.0 Emissions Summary

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1050 Parker Street - Alameda County, Summer

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5272	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698
Energy	0.0381	0.3467	0.2912	2.0800e-003		0.0264	0.0264		0.0264	0.0264		415.9782	415.9782	7.9700e-003	7.6300e-003	418.4502
Mobile	3.1131	15.9584	23.2686	0.0787	5.4036	0.0741	5.4776	1.4479	0.0696	1.5175		8,004.1514	8,004.1514	0.4120		8,014.4522
<b>Total</b>	<b>4.6783</b>	<b>16.3054</b>	<b>23.5904</b>	<b>0.0808</b>	<b>5.4036</b>	<b>0.1005</b>	<b>5.5041</b>	<b>1.4479</b>	<b>0.0960</b>	<b>1.5439</b>		<b>8,420.1951</b>	<b>8,420.1951</b>	<b>0.4202</b>	<b>7.6300e-003</b>	<b>8,432.9722</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5272	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698
Energy	0.0324	0.2949	0.2477	1.7700e-003		0.0224	0.0224		0.0224	0.0224		353.8574	353.8574	6.7800e-003	6.4900e-003	355.9602
Mobile	3.0054	15.0478	20.6752	0.0677	4.4945	0.0638	4.5583	1.2043	0.0599	1.2642		6,884.4215	6,884.4215	0.3813		6,893.9528
<b>Total</b>	<b>4.5650</b>	<b>15.3429</b>	<b>20.9535</b>	<b>0.0694</b>	<b>4.4945</b>	<b>0.0863</b>	<b>4.5808</b>	<b>1.2043</b>	<b>0.0824</b>	<b>1.2867</b>		<b>7,238.3444</b>	<b>7,238.3444</b>	<b>0.3882</b>	<b>6.4900e-003</b>	<b>7,249.9828</b>

## 1050 Parker Street - Alameda 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	2.42	5.90	11.18	14.07	16.82	14.14	16.77	16.82	14.18	16.66	0.00	14.04	14.04	7.61	14.94	14.03

### 3.0 Construction Detail

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#### Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	8/5/2019	8/30/2019	5	20	
2	Site Preparation	Site Preparation	8/31/2019	9/4/2019	5	3	
3	Grading	Grading	9/5/2019	9/12/2019	5	6	
4	Building Construction	Building Construction	9/13/2019	7/16/2020	5	220	
5	Paving	Paving	7/17/2020	7/30/2020	5	10	
6	Architectural Coating	Architectural Coating	4/6/2020	7/30/2020	5	84	

**Acres of Grading (Site Preparation Phase): 3**

**Acres of Grading (Grading Phase): 28**

**Acres of Paving: 1.2**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 91,500; Non-Residential Outdoor: 30,500; Striped Parking Area: 5,712 (Architectural Coating – sqft)**

#### OffRoad Equipment



## 1050 Parker Street - Alameda County, Summer

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

**Trips and VMT**

1050 Parker Street - Alameda County, Summer

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	118.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	328.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	60.00	26.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2797	0.0000	1.2797	0.1938	0.0000	0.1938			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>1.2797</b>	<b>1.2863</b>	<b>2.5660</b>	<b>0.1938</b>	<b>1.2017</b>	<b>1.3955</b>		<b>2,360.7198</b>	<b>2,360.7198</b>	<b>0.6011</b>		<b>2,375.7475</b>

1050 Parker Street - Alameda County, Summer

**3.2 Demolition - 2019**

**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	0.0532	1.7968	0.3011	4.7800e-003	0.1033	6.5900e-003	0.1099	0.0283	6.3000e-003	0.0346		507.1284	507.1284	0.0253		507.7620
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	0.0520	0.0331	0.4121	1.1300e-003	0.1068	7.3000e-004	0.1075	0.0283	6.8000e-004	0.0290		112.0586	112.0586	3.1600e-003		112.1376
<b>Total</b>	<b>0.1052</b>	<b>1.8299</b>	<b>0.7132</b>	<b>5.9100e-003</b>	<b>0.2101</b>	<b>7.3200e-003</b>	<b>0.2174</b>	<b>0.0567</b>	<b>6.9800e-003</b>	<b>0.0636</b>		<b>619.1870</b>	<b>619.1870</b>	<b>0.0285</b>		<b>619.8996</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5759	0.0000	0.5759	0.0872	0.0000	0.0872			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017	0.0000	2,360.7197	2,360.7197	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>0.5759</b>	<b>1.2863</b>	<b>1.8621</b>	<b>0.0872</b>	<b>1.2017</b>	<b>1.2889</b>	<b>0.0000</b>	<b>2,360.7197</b>	<b>2,360.7197</b>	<b>0.6011</b>		<b>2,375.7475</b>

1050 Parker Street - Alameda County, Summer

**3.2 Demolition - 2019**

**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	0.0532	1.7968	0.3011	4.7800e-003	0.1033	6.5900e-003	0.1099	0.0283	6.3000e-003	0.0346		507.1284	507.1284	0.0253		507.7620
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	0.0520	0.0331	0.4121	1.1300e-003	0.1068	7.3000e-004	0.1075	0.0283	6.8000e-004	0.0290		112.0586	112.0586	3.1600e-003		112.1376
<b>Total</b>	<b>0.1052</b>	<b>1.8299</b>	<b>0.7132</b>	<b>5.9100e-003</b>	<b>0.2101</b>	<b>7.3200e-003</b>	<b>0.2174</b>	<b>0.0567</b>	<b>6.9800e-003</b>	<b>0.0636</b>		<b>619.1870</b>	<b>619.1870</b>	<b>0.0285</b>		<b>619.8996</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	2.8210	34.4525	19.9757	0.0397		1.3597	1.3597		1.2509	1.2509		3,926.3553	3,926.3553	1.2423		3,957.4117
<b>Total</b>	<b>2.8210</b>	<b>34.4525</b>	<b>19.9757</b>	<b>0.0397</b>	<b>1.0605</b>	<b>1.3597</b>	<b>2.4202</b>	<b>0.1145</b>	<b>1.2509</b>	<b>1.3654</b>		<b>3,926.3553</b>	<b>3,926.3553</b>	<b>1.2423</b>		<b>3,957.4117</b>

1050 Parker Street - Alameda County, Summer

**3.3 Site Preparation - 2019**

**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	0.0400	0.0255	0.3170	8.7000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		86.1989	86.1989	2.4300e-003		86.2597
<b>Total</b>	<b>0.0400</b>	<b>0.0255</b>	<b>0.3170</b>	<b>8.7000e-004</b>	<b>0.0822</b>	<b>5.6000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.2000e-004</b>	<b>0.0223</b>		<b>86.1989</b>	<b>86.1989</b>	<b>2.4300e-003</b>		<b>86.2597</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4772	0.0000	0.4772	0.0515	0.0000	0.0515			0.0000			0.0000
Off-Road	2.8210	34.4525	19.9757	0.0397		1.3597	1.3597		1.2509	1.2509	0.0000	3,926.3553	3,926.3553	1.2423		3,957.4117
<b>Total</b>	<b>2.8210</b>	<b>34.4525</b>	<b>19.9757</b>	<b>0.0397</b>	<b>0.4772</b>	<b>1.3597</b>	<b>1.8369</b>	<b>0.0515</b>	<b>1.2509</b>	<b>1.3025</b>	<b>0.0000</b>	<b>3,926.3553</b>	<b>3,926.3553</b>	<b>1.2423</b>		<b>3,957.4117</b>

1050 Parker Street - Alameda County, Summer

**3.3 Site Preparation - 2019**

**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	0.0400	0.0255	0.3170	8.7000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		86.1989	86.1989	2.4300e-003		86.2597
<b>Total</b>	<b>0.0400</b>	<b>0.0255</b>	<b>0.3170</b>	<b>8.7000e-004</b>	<b>0.0822</b>	<b>5.6000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.2000e-004</b>	<b>0.0223</b>		<b>86.1989</b>	<b>86.1989</b>	<b>2.4300e-003</b>		<b>86.2597</b>

**3.4 Grading - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.0206	0.0000	11.0206	3.8521	0.0000	3.8521			0.0000			0.0000
Off-Road	2.0287	22.7444	10.1518	0.0206		1.0730	1.0730		0.9871	0.9871		2,041.2539	2,041.2539	0.6458		2,057.3997
<b>Total</b>	<b>2.0287</b>	<b>22.7444</b>	<b>10.1518</b>	<b>0.0206</b>	<b>11.0206</b>	<b>1.0730</b>	<b>12.0935</b>	<b>3.8521</b>	<b>0.9871</b>	<b>4.8392</b>		<b>2,041.2539</b>	<b>2,041.2539</b>	<b>0.6458</b>		<b>2,057.3997</b>

1050 Parker Street - Alameda County, Summer

**3.4 Grading - 2019**

**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	0.4924	16.6487	2.7896	0.0443	0.9570	0.0611	1.0181	0.2624	0.0584	0.3208		4,698.8165	4,698.8165	0.2348		4,704.6870
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	0.0400	0.0255	0.3170	8.7000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		86.1989	86.1989	2.4300e-003		86.2597
<b>Total</b>	<b>0.5325</b>	<b>16.6741</b>	<b>3.1066</b>	<b>0.0451</b>	<b>1.0392</b>	<b>0.0616</b>	<b>1.1008</b>	<b>0.2842</b>	<b>0.0589</b>	<b>0.3431</b>		<b>4,785.0154</b>	<b>4,785.0154</b>	<b>0.2373</b>		<b>4,790.9467</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9593	0.0000	4.9593	1.7334	0.0000	1.7334			0.0000			0.0000
Off-Road	2.0287	22.7444	10.1518	0.0206		1.0730	1.0730		0.9871	0.9871	0.0000	2,041.2539	2,041.2539	0.6458		2,057.3997
<b>Total</b>	<b>2.0287</b>	<b>22.7444</b>	<b>10.1518</b>	<b>0.0206</b>	<b>4.9593</b>	<b>1.0730</b>	<b>6.0322</b>	<b>1.7334</b>	<b>0.9871</b>	<b>2.7206</b>	<b>0.0000</b>	<b>2,041.2539</b>	<b>2,041.2539</b>	<b>0.6458</b>		<b>2,057.3997</b>

1050 Parker Street - Alameda County, Summer

**3.4 Grading - 2019**

**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	0.4924	16.6487	2.7896	0.0443	0.9570	0.0611	1.0181	0.2624	0.0584	0.3208		4,698.8165	4,698.8165	0.2348		4,704.6870
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	0.0400	0.0255	0.3170	8.7000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		86.1989	86.1989	2.4300e-003		86.2597
<b>Total</b>	<b>0.5325</b>	<b>16.6741</b>	<b>3.1066</b>	<b>0.0451</b>	<b>1.0392</b>	<b>0.0616</b>	<b>1.1008</b>	<b>0.2842</b>	<b>0.0589</b>	<b>0.3431</b>		<b>4,785.0154</b>	<b>4,785.0154</b>	<b>0.2373</b>		<b>4,790.9467</b>

**3.5 Building Construction - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449		2,312.1454	2,312.1454	0.4810		2,324.1705
<b>Total</b>	<b>2.5581</b>	<b>18.9103</b>	<b>15.2545</b>	<b>0.0250</b>		<b>1.0901</b>	<b>1.0901</b>		<b>1.0449</b>	<b>1.0449</b>		<b>2,312.1454</b>	<b>2,312.1454</b>	<b>0.4810</b>		<b>2,324.1705</b>



1050 Parker Street - Alameda County, Summer

**3.5 Building Construction - 2019**

**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	0.1150	3.2829	0.6866	7.3200e-003	0.1762	0.0211	0.1973	0.0507	0.0202	0.0709		772.2399	772.2399	0.0450		773.3653
Worker	0.2401	0.1528	1.9020	5.1900e-003	0.4929	3.3800e-003	0.4963	0.1307	3.1200e-003	0.1339		517.1934	517.1934	0.0146		517.5583
<b>Total</b>	<b>0.3551</b>	<b>3.4357</b>	<b>2.5885</b>	<b>0.0125</b>	<b>0.6691</b>	<b>0.0245</b>	<b>0.6936</b>	<b>0.1815</b>	<b>0.0233</b>	<b>0.2048</b>		<b>1,289.4333</b>	<b>1,289.4333</b>	<b>0.0596</b>		<b>1,290.9236</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449	0.0000	2,312.1454	2,312.1454	0.4810		2,324.1705
<b>Total</b>	<b>2.5581</b>	<b>18.9103</b>	<b>15.2545</b>	<b>0.0250</b>		<b>1.0901</b>	<b>1.0901</b>		<b>1.0449</b>	<b>1.0449</b>	<b>0.0000</b>	<b>2,312.1454</b>	<b>2,312.1454</b>	<b>0.4810</b>		<b>2,324.1705</b>

1050 Parker Street - Alameda County, Summer

**3.5 Building Construction - 2019**

**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	0.1150	3.2829	0.6866	7.3200e-003	0.1762	0.0211	0.1973	0.0507	0.0202	0.0709		772.2399	772.2399	0.0450		773.3653
Worker	0.2401	0.1528	1.9020	5.1900e-003	0.4929	3.3800e-003	0.4963	0.1307	3.1200e-003	0.1339		517.1934	517.1934	0.0146		517.5583
<b>Total</b>	<b>0.3551</b>	<b>3.4357</b>	<b>2.5885</b>	<b>0.0125</b>	<b>0.6691</b>	<b>0.0245</b>	<b>0.6936</b>	<b>0.1815</b>	<b>0.0233</b>	<b>0.2048</b>		<b>1,289.4333</b>	<b>1,289.4333</b>	<b>0.0596</b>		<b>1,290.9236</b>

**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	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014
<b>Total</b>	<b>2.2879</b>	<b>17.4336</b>	<b>14.8972</b>	<b>0.0250</b>		<b>0.9482</b>	<b>0.9482</b>		<b>0.9089</b>	<b>0.9089</b>		<b>2,288.8877</b>	<b>2,288.8877</b>	<b>0.4646</b>		<b>2,300.5014</b>

1050 Parker Street - Alameda 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	0.0956	3.0215	0.6136	7.2700e-003	0.1762	0.0141	0.1903	0.0507	0.0135	0.0642		766.9445	766.9445	0.0417		767.9875
Worker	0.2195	0.1351	1.7116	5.0300e-003	0.4929	3.2900e-003	0.4962	0.1307	3.0300e-003	0.1338		501.2170	501.2170	0.0128		501.5381
<b>Total</b>	<b>0.3152</b>	<b>3.1566</b>	<b>2.3252</b>	<b>0.0123</b>	<b>0.6691</b>	<b>0.0174</b>	<b>0.6864</b>	<b>0.1815</b>	<b>0.0165</b>	<b>0.1980</b>		<b>1,268.1615</b>	<b>1,268.1615</b>	<b>0.0546</b>		<b>1,269.5257</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089	0.0000	2,288.8877	2,288.8877	0.4646		2,300.5014
<b>Total</b>	<b>2.2879</b>	<b>17.4336</b>	<b>14.8972</b>	<b>0.0250</b>		<b>0.9482</b>	<b>0.9482</b>		<b>0.9089</b>	<b>0.9089</b>	<b>0.0000</b>	<b>2,288.8877</b>	<b>2,288.8877</b>	<b>0.4646</b>		<b>2,300.5014</b>

1050 Parker Street - Alameda 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	0.0956	3.0215	0.6136	7.2700e-003	0.1762	0.0141	0.1903	0.0507	0.0135	0.0642		766.9445	766.9445	0.0417		767.9875
Worker	0.2195	0.1351	1.7116	5.0300e-003	0.4929	3.2900e-003	0.4962	0.1307	3.0300e-003	0.1338		501.2170	501.2170	0.0128		501.5381
<b>Total</b>	<b>0.3152</b>	<b>3.1566</b>	<b>2.3252</b>	<b>0.0123</b>	<b>0.6691</b>	<b>0.0174</b>	<b>0.6864</b>	<b>0.1815</b>	<b>0.0165</b>	<b>0.1980</b>		<b>1,268.1615</b>	<b>1,268.1615</b>	<b>0.0546</b>		<b>1,269.5257</b>

### 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	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4691</b>	<b>11.5873</b>	<b>11.8076</b>	<b>0.0178</b>		<b>0.6565</b>	<b>0.6565</b>		<b>0.6051</b>	<b>0.6051</b>		<b>1,709.2180</b>	<b>1,709.2180</b>	<b>0.5417</b>		<b>1,722.7605</b>

1050 Parker Street - Alameda 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	0.0549	0.0338	0.4279	1.2600e-003	0.1232	8.2000e-004	0.1240	0.0327	7.6000e-004	0.0334		125.3043	125.3043	3.2100e-003		125.3845
<b>Total</b>	<b>0.0549</b>	<b>0.0338</b>	<b>0.4279</b>	<b>1.2600e-003</b>	<b>0.1232</b>	<b>8.2000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.6000e-004</b>	<b>0.0334</b>		<b>125.3043</b>	<b>125.3043</b>	<b>3.2100e-003</b>		<b>125.3845</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4691</b>	<b>11.5873</b>	<b>11.8076</b>	<b>0.0178</b>		<b>0.6565</b>	<b>0.6565</b>		<b>0.6051</b>	<b>0.6051</b>	<b>0.0000</b>	<b>1,709.2180</b>	<b>1,709.2180</b>	<b>0.5417</b>		<b>1,722.7605</b>

1050 Parker Street - Alameda 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	0.0549	0.0338	0.4279	1.2600e-003	0.1232	8.2000e-004	0.1240	0.0327	7.6000e-004	0.0334		125.3043	125.3043	3.2100e-003		125.3845
<b>Total</b>	<b>0.0549</b>	<b>0.0338</b>	<b>0.4279</b>	<b>1.2600e-003</b>	<b>0.1232</b>	<b>8.2000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.6000e-004</b>	<b>0.0334</b>		<b>125.3043</b>	<b>125.3043</b>	<b>3.2100e-003</b>		<b>125.3845</b>

**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	8.0460					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
<b>Total</b>	<b>8.2882</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

1050 Parker Street - Alameda 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	0.0439	0.0270	0.3423	1.0100e-003	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		100.2434	100.2434	2.5700e-003		100.3076
<b>Total</b>	<b>0.0439</b>	<b>0.0270</b>	<b>0.3423</b>	<b>1.0100e-003</b>	<b>0.0986</b>	<b>6.6000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>6.1000e-004</b>	<b>0.0268</b>		<b>100.2434</b>	<b>100.2434</b>	<b>2.5700e-003</b>		<b>100.3076</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.0460					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
<b>Total</b>	<b>8.2882</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

1050 Parker Street - Alameda 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	0.0439	0.0270	0.3423	1.0100e-003	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		100.2434	100.2434	2.5700e-003		100.3076
<b>Total</b>	<b>0.0439</b>	<b>0.0270</b>	<b>0.3423</b>	<b>1.0100e-003</b>	<b>0.0986</b>	<b>6.6000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>6.1000e-004</b>	<b>0.0268</b>		<b>100.2434</b>	<b>100.2434</b>	<b>2.5700e-003</b>		<b>100.3076</b>

### 4.0 Operational Detail - Mobile

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#### 4.1 Mitigation Measures Mobile

Increase Diversity

Improve Pedestrian Network

Implement Trip Reduction Program



1050 Parker Street - Alameda 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	3.0054	15.0478	20.6752	0.0677	4.4945	0.0638	4.5583	1.2043	0.0599	1.2642		6,884.4215	6,884.4215	0.3813		6,893.9528
Unmitigated	3.1131	15.9584	23.2686	0.0787	5.4036	0.0741	5.4776	1.4479	0.0696	1.5175		8,004.1514	8,004.1514	0.4120		8,014.4522

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant w/o Drive Thru	273.00	81.90	16.35	110,106	91,835
Medical Office Building	1,723.15	539.84	93.39	1,831,878	1,523,449
Parking Lot	0.00	0.00	0.00		
Total	1,996.15	621.74	109.74	1,941,984	1,615,285

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
Fast Food Restaurant w/o Drive	9.50	2.00	2.00	1.50	79.50	19.00	58	42	0
Medical Office Building	9.50	4.00	4.00	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

1050 Parker Street - Alameda County, Summer

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant w/o Drive Thru	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739
Medical Office Building	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739
Parking Lot	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	0.0324	0.2949	0.2477	1.7700e-003		0.0224	0.0224		0.0224	0.0224		353.8574	353.8574	6.7800e-003	6.4900e-003	355.9602
Natural Gas Unmitigated	0.0381	0.3467	0.2912	2.0800e-003		0.0264	0.0264		0.0264	0.0264		415.9782	415.9782	7.9700e-003	7.6300e-003	418.4502

1050 Parker Street - Alameda County, Summer

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant w/o Drive Thru	345.041	3.7200e-003	0.0338	0.0284	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003		40.5931	40.5931	7.8000e-004	7.4000e-004	40.8343
Medical Office Building	3190.77	0.0344	0.3128	0.2628	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.3852	375.3852	7.1900e-003	6.8800e-003	377.6159
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0381</b>	<b>0.3467</b>	<b>0.2912</b>	<b>2.0800e-003</b>		<b>0.0263</b>	<b>0.0263</b>		<b>0.0263</b>	<b>0.0263</b>		<b>415.9782</b>	<b>415.9782</b>	<b>7.9700e-003</b>	<b>7.6200e-003</b>	<b>418.4502</b>

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant w/o Drive Thru	0.331103	3.5700e-003	0.0325	0.0273	1.9000e-004		2.4700e-003	2.4700e-003		2.4700e-003	2.4700e-003		38.9533	38.9533	7.5000e-004	7.1000e-004	39.1848
Medical Office Building	2.67668	0.0289	0.2624	0.2204	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.9041	314.9041	6.0400e-003	5.7700e-003	316.7754
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0324</b>	<b>0.2949</b>	<b>0.2477</b>	<b>1.7600e-003</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0224</b>	<b>0.0224</b>		<b>353.8574</b>	<b>353.8574</b>	<b>6.7900e-003</b>	<b>6.4800e-003</b>	<b>355.9602</b>

1050 Parker Street - Alameda County, Summer

**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	1.5272	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698
Unmitigated	1.5272	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698

1050 Parker Street - Alameda 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	0.1852					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3391					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.8600e-003	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698
<b>Total</b>	<b>1.5272</b>	<b>2.8000e-004</b>	<b>0.0307</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>0.0654</b>	<b>0.0654</b>	<b>1.7000e-004</b>		<b>0.0698</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1852					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3391					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.8600e-003	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698
<b>Total</b>	<b>1.5272</b>	<b>2.8000e-004</b>	<b>0.0307</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>0.0654</b>	<b>0.0654</b>	<b>1.7000e-004</b>		<b>0.0698</b>

**7.0 Water Detail**

1050 Parker Street - Alameda County, Summer

**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**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**

1050 Parker Street - Alameda County, Winter

**1050 Parker Street  
Alameda County, Winter**

**1.0 Project Characteristics**

**1.1 Land Usage**

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
Medical Office Building	60.25	1000sqft	1.38	60,250.00	0
Parking Lot	238.00	Space	1.20	95,200.00	0
Fast Food Restaurant w/o Drive Thru	0.75	1000sqft	0.02	750.00	0

**1.2 Other Project Characteristics**

<b>Urbanization</b>	Urban	<b>Wind Speed (m/s)</b>	2.2	<b>Precipitation Freq (Days)</b>	63
<b>Climate Zone</b>	5			<b>Operational Year</b>	2021
<b>Utility Company</b>	Pacific Gas & Electric Company				
<b>CO2 Intensity (lb/MW hr)</b>	641.35	<b>CH4 Intensity (lb/MW hr)</b>	0.029	<b>N2O Intensity (lb/MW hr)</b>	0.006

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

1050 Parker Street - Alameda County, Winter

Project Characteristics -

Land Use - Source: site plan

Construction Phase - Updated architectural coating phase to reflect more accurate construction schedule

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment - Per project construction schedule

Trips and VMT -

Demolition -

Grading - Per project plans

Vehicle Trips - Per Traffic Study and traffic memo and proportional cafe decrease on weekends consistent w/ medical building

Area Coating -

Construction Off-road Equipment Mitigation -

Mobile Land Use Mitigation -

Mobile Commute Mitigation -

Area Mitigation -

Energy Mitigation -

Waste Mitigation -



## 1050 Parker Street - Alameda County, Winter

Table Name	Column Name	Default Value	New Value
tblConstructionPhase	NumDays	10.00	84.00
tblConstructionPhase	PhaseEndDate	8/13/2020	7/30/2020
tblConstructionPhase	PhaseStartDate	7/31/2020	4/6/2020
tblGrading	AcresOfGrading	3.00	28.00
tblGrading	AcresOfGrading	4.50	3.00
tblGrading	MaterialImported	0.00	2,625.00
tblLandUse	LotAcreage	2.14	1.20
tblVehicleTrips	CC_TL	7.30	2.00
tblVehicleTrips	CC_TL	7.30	4.00
tblVehicleTrips	CNW_TL	7.30	2.00
tblVehicleTrips	CNW_TL	7.30	4.00
tblVehicleTrips	DV_TP	37.00	42.00
tblVehicleTrips	PB_TP	12.00	0.00
tblVehicleTrips	PR_TP	51.00	58.00
tblVehicleTrips	ST_TR	696.00	109.20
tblVehicleTrips	SU_TR	500.00	21.80
tblVehicleTrips	WD_TR	716.00	364.00
tblVehicleTrips	WD_TR	36.13	28.60

## 2.0 Emissions Summary

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1050 Parker Street - Alameda County, Winter

**2.2 Overall Operational**

**Unmitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5272	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698
Energy	0.0381	0.3467	0.2912	2.0800e-003		0.0264	0.0264		0.0264	0.0264		415.9782	415.9782	7.9700e-003	7.6300e-003	418.4502
Mobile	2.6362	16.2917	25.3941	0.0736	5.4036	0.0752	5.4788	1.4479	0.0707	1.5186		7,480.8803	7,480.8803	0.4444		7,491.9912
<b>Total</b>	<b>4.2015</b>	<b>16.6386</b>	<b>25.7159</b>	<b>0.0757</b>	<b>5.4036</b>	<b>0.1017</b>	<b>5.5053</b>	<b>1.4479</b>	<b>0.0972</b>	<b>1.5451</b>		<b>7,896.9240</b>	<b>7,896.9240</b>	<b>0.4526</b>	<b>7.6300e-003</b>	<b>7,910.5112</b>

**Mitigated Operational**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	1.5272	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698
Energy	0.0324	0.2949	0.2477	1.7700e-003		0.0224	0.0224		0.0224	0.0224		353.8574	353.8574	6.7800e-003	6.4900e-003	355.9602
Mobile	2.5301	15.2945	23.0774	0.0632	4.4945	0.0650	4.5595	1.2043	0.0610	1.2653		6,425.7206	6,425.7206	0.4152		6,436.0995
<b>Total</b>	<b>4.0897</b>	<b>15.5896</b>	<b>23.3557</b>	<b>0.0650</b>	<b>4.4945</b>	<b>0.0875</b>	<b>4.5820</b>	<b>1.2043</b>	<b>0.0836</b>	<b>1.2879</b>		<b>6,779.6435</b>	<b>6,779.6435</b>	<b>0.4221</b>	<b>6.4900e-003</b>	<b>6,792.1295</b>

## 1050 Parker Street - Alameda 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	2.66	6.30	9.18	14.16	16.82	13.98	16.77	16.82	14.02	16.65	0.00	14.15	14.15	6.73	14.94	14.14

**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	8/5/2019	8/30/2019	5	20	
2	Site Preparation	Site Preparation	8/31/2019	9/4/2019	5	3	
3	Grading	Grading	9/5/2019	9/12/2019	5	6	
4	Building Construction	Building Construction	9/13/2019	7/16/2020	5	220	
5	Paving	Paving	7/17/2020	7/30/2020	5	10	
6	Architectural Coating	Architectural Coating	4/6/2020	7/30/2020	5	84	

**Acres of Grading (Site Preparation Phase): 3**

**Acres of Grading (Grading Phase): 28**

**Acres of Paving: 1.2**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 91,500; Non-Residential Outdoor: 30,500; Striped Parking Area: 5,712 (Architectural Coating – sqft)**

**OffRoad Equipment**

## 1050 Parker Street - Alameda County, Winter

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

**Trips and VMT**

1050 Parker Street - Alameda County, Winter

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	5	13.00	0.00	118.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Grading	4	10.00	0.00	328.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	4	10.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	8	60.00	26.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	12.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.80	7.30	20.00	LD_Mix	HDT_Mix	HHDT

**3.1 Mitigation Measures Construction**

Water Exposed Area

**3.2 Demolition - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.2797	0.0000	1.2797	0.1938	0.0000	0.1938			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017		2,360.7198	2,360.7198	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>1.2797</b>	<b>1.2863</b>	<b>2.5660</b>	<b>0.1938</b>	<b>1.2017</b>	<b>1.3955</b>		<b>2,360.7198</b>	<b>2,360.7198</b>	<b>0.6011</b>		<b>2,375.7475</b>

1050 Parker Street - Alameda County, Winter

**3.2 Demolition - 2019**

**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	0.0547	1.8402	0.3297	4.6900e-003	0.1033	6.7100e-003	0.1100	0.0283	6.4200e-003	0.0347		497.9255	497.9255	0.0273		498.6081
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	0.0543	0.0412	0.3910	1.0400e-003	0.1068	7.3000e-004	0.1075	0.0283	6.8000e-004	0.0290		103.1226	103.1226	2.9800e-003		103.1972
<b>Total</b>	<b>0.1090</b>	<b>1.8814</b>	<b>0.7207</b>	<b>5.7300e-003</b>	<b>0.2101</b>	<b>7.4400e-003</b>	<b>0.2175</b>	<b>0.0567</b>	<b>7.1000e-003</b>	<b>0.0637</b>		<b>601.0482</b>	<b>601.0482</b>	<b>0.0303</b>		<b>601.8052</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.5759	0.0000	0.5759	0.0872	0.0000	0.0872			0.0000			0.0000
Off-Road	2.2950	22.6751	14.8943	0.0241		1.2863	1.2863		1.2017	1.2017	0.0000	2,360.7197	2,360.7197	0.6011		2,375.7475
<b>Total</b>	<b>2.2950</b>	<b>22.6751</b>	<b>14.8943</b>	<b>0.0241</b>	<b>0.5759</b>	<b>1.2863</b>	<b>1.8621</b>	<b>0.0872</b>	<b>1.2017</b>	<b>1.2889</b>	<b>0.0000</b>	<b>2,360.7197</b>	<b>2,360.7197</b>	<b>0.6011</b>		<b>2,375.7475</b>

1050 Parker Street - Alameda County, Winter

**3.2 Demolition - 2019**

**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	0.0547	1.8402	0.3297	4.6900e-003	0.1033	6.7100e-003	0.1100	0.0283	6.4200e-003	0.0347		497.9255	497.9255	0.0273		498.6081
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	0.0543	0.0412	0.3910	1.0400e-003	0.1068	7.3000e-004	0.1075	0.0283	6.8000e-004	0.0290		103.1226	103.1226	2.9800e-003		103.1972
<b>Total</b>	<b>0.1090</b>	<b>1.8814</b>	<b>0.7207</b>	<b>5.7300e-003</b>	<b>0.2101</b>	<b>7.4400e-003</b>	<b>0.2175</b>	<b>0.0567</b>	<b>7.1000e-003</b>	<b>0.0637</b>		<b>601.0482</b>	<b>601.0482</b>	<b>0.0303</b>		<b>601.8052</b>

**3.3 Site Preparation - 2019**

**Unmitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0605	0.0000	1.0605	0.1145	0.0000	0.1145			0.0000			0.0000
Off-Road	2.8210	34.4525	19.9757	0.0397		1.3597	1.3597		1.2509	1.2509		3,926.3553	3,926.3553	1.2423		3,957.4117
<b>Total</b>	<b>2.8210</b>	<b>34.4525</b>	<b>19.9757</b>	<b>0.0397</b>	<b>1.0605</b>	<b>1.3597</b>	<b>2.4202</b>	<b>0.1145</b>	<b>1.2509</b>	<b>1.3654</b>		<b>3,926.3553</b>	<b>3,926.3553</b>	<b>1.2423</b>		<b>3,957.4117</b>



1050 Parker Street - Alameda County, Winter

**3.3 Site Preparation - 2019**

**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	0.0418	0.0317	0.3007	8.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		79.3251	79.3251	2.2900e-003		79.3824
<b>Total</b>	<b>0.0418</b>	<b>0.0317</b>	<b>0.3007</b>	<b>8.0000e-004</b>	<b>0.0822</b>	<b>5.6000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.2000e-004</b>	<b>0.0223</b>		<b>79.3251</b>	<b>79.3251</b>	<b>2.2900e-003</b>		<b>79.3824</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					0.4772	0.0000	0.4772	0.0515	0.0000	0.0515			0.0000			0.0000
Off-Road	2.8210	34.4525	19.9757	0.0397		1.3597	1.3597		1.2509	1.2509	0.0000	3,926.3553	3,926.3553	1.2423		3,957.4117
<b>Total</b>	<b>2.8210</b>	<b>34.4525</b>	<b>19.9757</b>	<b>0.0397</b>	<b>0.4772</b>	<b>1.3597</b>	<b>1.8369</b>	<b>0.0515</b>	<b>1.2509</b>	<b>1.3025</b>	<b>0.0000</b>	<b>3,926.3553</b>	<b>3,926.3553</b>	<b>1.2423</b>		<b>3,957.4117</b>

1050 Parker Street - Alameda County, Winter

### 3.3 Site Preparation - 2019

#### 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	0.0418	0.0317	0.3007	8.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		79.3251	79.3251	2.2900e-003		79.3824
<b>Total</b>	<b>0.0418</b>	<b>0.0317</b>	<b>0.3007</b>	<b>8.0000e-004</b>	<b>0.0822</b>	<b>5.6000e-004</b>	<b>0.0827</b>	<b>0.0218</b>	<b>5.2000e-004</b>	<b>0.0223</b>		<b>79.3251</b>	<b>79.3251</b>	<b>2.2900e-003</b>		<b>79.3824</b>

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					11.0206	0.0000	11.0206	3.8521	0.0000	3.8521			0.0000			0.0000
Off-Road	2.0287	22.7444	10.1518	0.0206		1.0730	1.0730		0.9871	0.9871		2,041.2539	2,041.2539	0.6458		2,057.3997
<b>Total</b>	<b>2.0287</b>	<b>22.7444</b>	<b>10.1518</b>	<b>0.0206</b>	<b>11.0206</b>	<b>1.0730</b>	<b>12.0935</b>	<b>3.8521</b>	<b>0.9871</b>	<b>4.8392</b>		<b>2,041.2539</b>	<b>2,041.2539</b>	<b>0.6458</b>		<b>2,057.3997</b>

1050 Parker Street - Alameda County, Winter

**3.4 Grading - 2019**

**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	0.5065	17.0507	3.0552	0.0435	0.9570	0.0621	1.0192	0.2624	0.0595	0.3219		4,613.5473	4,613.5473	0.2530		4,619.8714
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	0.0418	0.0317	0.3007	8.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		79.3251	79.3251	2.2900e-003		79.3824
<b>Total</b>	<b>0.5482</b>	<b>17.0824</b>	<b>3.3559</b>	<b>0.0443</b>	<b>1.0392</b>	<b>0.0627</b>	<b>1.1019</b>	<b>0.2842</b>	<b>0.0600</b>	<b>0.3442</b>		<b>4,692.8725</b>	<b>4,692.8725</b>	<b>0.2553</b>		<b>4,699.2538</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					4.9593	0.0000	4.9593	1.7334	0.0000	1.7334			0.0000			0.0000
Off-Road	2.0287	22.7444	10.1518	0.0206		1.0730	1.0730		0.9871	0.9871	0.0000	2,041.2539	2,041.2539	0.6458		2,057.3997
<b>Total</b>	<b>2.0287</b>	<b>22.7444</b>	<b>10.1518</b>	<b>0.0206</b>	<b>4.9593</b>	<b>1.0730</b>	<b>6.0322</b>	<b>1.7334</b>	<b>0.9871</b>	<b>2.7206</b>	<b>0.0000</b>	<b>2,041.2539</b>	<b>2,041.2539</b>	<b>0.6458</b>		<b>2,057.3997</b>

1050 Parker Street - Alameda County, Winter

### 3.4 Grading - 2019

#### 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	0.5065	17.0507	3.0552	0.0435	0.9570	0.0621	1.0192	0.2624	0.0595	0.3219		4,613.5473	4,613.5473	0.2530		4,619.8714
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	0.0418	0.0317	0.3007	8.0000e-004	0.0822	5.6000e-004	0.0827	0.0218	5.2000e-004	0.0223		79.3251	79.3251	2.2900e-003		79.3824
<b>Total</b>	<b>0.5482</b>	<b>17.0824</b>	<b>3.3559</b>	<b>0.0443</b>	<b>1.0392</b>	<b>0.0627</b>	<b>1.1019</b>	<b>0.2842</b>	<b>0.0600</b>	<b>0.3442</b>		<b>4,692.8725</b>	<b>4,692.8725</b>	<b>0.2553</b>		<b>4,699.2538</b>

### 3.5 Building Construction - 2019

#### Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449		2,312.1454	2,312.1454	0.4810		2,324.1705
<b>Total</b>	<b>2.5581</b>	<b>18.9103</b>	<b>15.2545</b>	<b>0.0250</b>		<b>1.0901</b>	<b>1.0901</b>		<b>1.0449</b>	<b>1.0449</b>		<b>2,312.1454</b>	<b>2,312.1454</b>	<b>0.4810</b>		<b>2,324.1705</b>

1050 Parker Street - Alameda County, Winter

**3.5 Building Construction - 2019**

**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	0.1204	3.3220	0.7926	7.1300e-003	0.1762	0.0214	0.1976	0.0507	0.0205	0.0712		751.2801	751.2801	0.0496			752.5207
Worker	0.2507	0.1901	1.8044	4.7800e-003	0.4929	3.3800e-003	0.4963	0.1307	3.1200e-003	0.1339		475.9507	475.9507	0.0138			476.2946
<b>Total</b>	<b>0.3711</b>	<b>3.5121</b>	<b>2.5970</b>	<b>0.0119</b>	<b>0.6691</b>	<b>0.0248</b>	<b>0.6939</b>	<b>0.1815</b>	<b>0.0236</b>	<b>0.2051</b>		<b>1,227.2307</b>	<b>1,227.2307</b>	<b>0.0634</b>			<b>1,228.8153</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e	
Category	lb/day										lb/day						
Off-Road	2.5581	18.9103	15.2545	0.0250		1.0901	1.0901		1.0449	1.0449	0.0000	2,312.1454	2,312.1454	0.4810			2,324.1705
<b>Total</b>	<b>2.5581</b>	<b>18.9103</b>	<b>15.2545</b>	<b>0.0250</b>		<b>1.0901</b>	<b>1.0901</b>		<b>1.0449</b>	<b>1.0449</b>	<b>0.0000</b>	<b>2,312.1454</b>	<b>2,312.1454</b>	<b>0.4810</b>			<b>2,324.1705</b>

1050 Parker Street - Alameda County, Winter

### 3.5 Building Construction - 2019

#### 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	0.1204	3.3220	0.7926	7.1300e-003	0.1762	0.0214	0.1976	0.0507	0.0205	0.0712		751.2801	751.2801	0.0496		752.5207
Worker	0.2507	0.1901	1.8044	4.7800e-003	0.4929	3.3800e-003	0.4963	0.1307	3.1200e-003	0.1339		475.9507	475.9507	0.0138		476.2946
<b>Total</b>	<b>0.3711</b>	<b>3.5121</b>	<b>2.5970</b>	<b>0.0119</b>	<b>0.6691</b>	<b>0.0248</b>	<b>0.6939</b>	<b>0.1815</b>	<b>0.0236</b>	<b>0.2051</b>		<b>1,227.2307</b>	<b>1,227.2307</b>	<b>0.0634</b>		<b>1,228.8153</b>

### 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	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089		2,288.8877	2,288.8877	0.4646		2,300.5014
<b>Total</b>	<b>2.2879</b>	<b>17.4336</b>	<b>14.8972</b>	<b>0.0250</b>		<b>0.9482</b>	<b>0.9482</b>		<b>0.9089</b>	<b>0.9089</b>		<b>2,288.8877</b>	<b>2,288.8877</b>	<b>0.4646</b>		<b>2,300.5014</b>

1050 Parker Street - Alameda 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	0.1005	3.0511	0.7104	7.0700e-003	0.1762	0.0143	0.1905	0.0507	0.0137	0.0644		745.8690	745.8690	0.0460		747.0186
Worker	0.2290	0.1680	1.6162	4.6300e-003	0.4929	3.2900e-003	0.4962	0.1307	3.0300e-003	0.1338		461.2251	461.2251	0.0120		461.5261
<b>Total</b>	<b>0.3295</b>	<b>3.2191</b>	<b>2.3265</b>	<b>0.0117</b>	<b>0.6691</b>	<b>0.0176</b>	<b>0.6867</b>	<b>0.1815</b>	<b>0.0167</b>	<b>0.1982</b>		<b>1,207.0940</b>	<b>1,207.0940</b>	<b>0.0580</b>		<b>1,208.5446</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	2.2879	17.4336	14.8972	0.0250		0.9482	0.9482		0.9089	0.9089	0.0000	2,288.8877	2,288.8877	0.4646		2,300.5014
<b>Total</b>	<b>2.2879</b>	<b>17.4336</b>	<b>14.8972</b>	<b>0.0250</b>		<b>0.9482</b>	<b>0.9482</b>		<b>0.9089</b>	<b>0.9089</b>	<b>0.0000</b>	<b>2,288.8877</b>	<b>2,288.8877</b>	<b>0.4646</b>		<b>2,300.5014</b>

1050 Parker Street - Alameda 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	0.1005	3.0511	0.7104	7.0700e-003	0.1762	0.0143	0.1905	0.0507	0.0137	0.0644		745.8690	745.8690	0.0460		747.0186
Worker	0.2290	0.1680	1.6162	4.6300e-003	0.4929	3.2900e-003	0.4962	0.1307	3.0300e-003	0.1338		461.2251	461.2251	0.0120		461.5261
<b>Total</b>	<b>0.3295</b>	<b>3.2191</b>	<b>2.3265</b>	<b>0.0117</b>	<b>0.6691</b>	<b>0.0176</b>	<b>0.6867</b>	<b>0.1815</b>	<b>0.0167</b>	<b>0.1982</b>		<b>1,207.0940</b>	<b>1,207.0940</b>	<b>0.0580</b>		<b>1,208.5446</b>

### 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	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051		1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4691</b>	<b>11.5873</b>	<b>11.8076</b>	<b>0.0178</b>		<b>0.6565</b>	<b>0.6565</b>		<b>0.6051</b>	<b>0.6051</b>		<b>1,709.2180</b>	<b>1,709.2180</b>	<b>0.5417</b>		<b>1,722.7605</b>



1050 Parker Street - Alameda 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	0.0572	0.0420	0.4040	1.1600e-003	0.1232	8.2000e-004	0.1240	0.0327	7.6000e-004	0.0334		115.3063	115.3063	3.0100e-003		115.3815
<b>Total</b>	<b>0.0572</b>	<b>0.0420</b>	<b>0.4040</b>	<b>1.1600e-003</b>	<b>0.1232</b>	<b>8.2000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.6000e-004</b>	<b>0.0334</b>		<b>115.3063</b>	<b>115.3063</b>	<b>3.0100e-003</b>		<b>115.3815</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.1547	11.5873	11.8076	0.0178		0.6565	0.6565		0.6051	0.6051	0.0000	1,709.2180	1,709.2180	0.5417		1,722.7605
Paving	0.3144					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
<b>Total</b>	<b>1.4691</b>	<b>11.5873</b>	<b>11.8076</b>	<b>0.0178</b>		<b>0.6565</b>	<b>0.6565</b>		<b>0.6051</b>	<b>0.6051</b>	<b>0.0000</b>	<b>1,709.2180</b>	<b>1,709.2180</b>	<b>0.5417</b>		<b>1,722.7605</b>

1050 Parker Street - Alameda 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	0.0572	0.0420	0.4040	1.1600e-003	0.1232	8.2000e-004	0.1240	0.0327	7.6000e-004	0.0334		115.3063	115.3063	3.0100e-003		115.3815
<b>Total</b>	<b>0.0572</b>	<b>0.0420</b>	<b>0.4040</b>	<b>1.1600e-003</b>	<b>0.1232</b>	<b>8.2000e-004</b>	<b>0.1240</b>	<b>0.0327</b>	<b>7.6000e-004</b>	<b>0.0334</b>		<b>115.3063</b>	<b>115.3063</b>	<b>3.0100e-003</b>		<b>115.3815</b>

### 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	8.0460					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
<b>Total</b>	<b>8.2882</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>		<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

1050 Parker Street - Alameda 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	0.0458	0.0336	0.3232	9.3000e-004	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		92.2450	92.2450	2.4100e-003		92.3052
<b>Total</b>	<b>0.0458</b>	<b>0.0336</b>	<b>0.3232</b>	<b>9.3000e-004</b>	<b>0.0986</b>	<b>6.6000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>6.1000e-004</b>	<b>0.0268</b>		<b>92.2450</b>	<b>92.2450</b>	<b>2.4100e-003</b>		<b>92.3052</b>

**Mitigated Construction On-Site**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	8.0460					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
<b>Total</b>	<b>8.2882</b>	<b>1.6838</b>	<b>1.8314</b>	<b>2.9700e-003</b>		<b>0.1109</b>	<b>0.1109</b>		<b>0.1109</b>	<b>0.1109</b>	<b>0.0000</b>	<b>281.4481</b>	<b>281.4481</b>	<b>0.0218</b>		<b>281.9928</b>

1050 Parker Street - Alameda 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	0.0458	0.0336	0.3232	9.3000e-004	0.0986	6.6000e-004	0.0992	0.0262	6.1000e-004	0.0268		92.2450	92.2450	2.4100e-003		92.3052
<b>Total</b>	<b>0.0458</b>	<b>0.0336</b>	<b>0.3232</b>	<b>9.3000e-004</b>	<b>0.0986</b>	<b>6.6000e-004</b>	<b>0.0992</b>	<b>0.0262</b>	<b>6.1000e-004</b>	<b>0.0268</b>		<b>92.2450</b>	<b>92.2450</b>	<b>2.4100e-003</b>		<b>92.3052</b>

### 4.0 Operational Detail - Mobile

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#### 4.1 Mitigation Measures Mobile

Increase Diversity

Improve Pedestrian Network

Implement Trip Reduction Program

1050 Parker Street - Alameda 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	2.5301	15.2945	23.0774	0.0632	4.4945	0.0650	4.5595	1.2043	0.0610	1.2653		6,425.7206	6,425.7206	0.4152		6,436.0995
Unmitigated	2.6362	16.2917	25.3941	0.0736	5.4036	0.0752	5.4788	1.4479	0.0707	1.5186		7,480.8803	7,480.8803	0.4444		7,491.9912

4.2 Trip Summary Information

Land Use	Average Daily Trip Rate			Unmitigated	Mitigated
	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Fast Food Restaurant w/o Drive Thru	273.00	81.90	16.35	110,106	91,835
Medical Office Building	1,723.15	539.84	93.39	1,831,878	1,523,449
Parking Lot	0.00	0.00	0.00		
Total	1,996.15	621.74	109.74	1,941,984	1,615,285

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
Fast Food Restaurant w/o Drive	9.50	2.00	2.00	1.50	79.50	19.00	58	42	0
Medical Office Building	9.50	4.00	4.00	29.60	51.40	19.00	60	30	10
Parking Lot	9.50	7.30	7.30	0.00	0.00	0.00	0	0	0

4.4 Fleet Mix

1050 Parker Street - Alameda County, Winter

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Fast Food Restaurant w/o Drive Thru	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739
Medical Office Building	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739
Parking Lot	0.559358	0.040058	0.190549	0.109335	0.016678	0.005213	0.023344	0.044042	0.002152	0.002669	0.005545	0.000316	0.000739

**5.0 Energy Detail**

Historical Energy Use: N

**5.1 Mitigation Measures Energy**

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Natural Gas Mitigated	0.0324	0.2949	0.2477	1.7700e-003		0.0224	0.0224		0.0224	0.0224		353.8574	353.8574	6.7800e-003	6.4900e-003	355.9602
Natural Gas Unmitigated	0.0381	0.3467	0.2912	2.0800e-003		0.0264	0.0264		0.0264	0.0264		415.9782	415.9782	7.9700e-003	7.6300e-003	418.4502

1050 Parker Street - Alameda County, Winter

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant w/o Drive Thru	345.041	3.7200e-003	0.0338	0.0284	2.0000e-004		2.5700e-003	2.5700e-003		2.5700e-003	2.5700e-003		40.5931	40.5931	7.8000e-004	7.4000e-004	40.8343
Medical Office Building	3190.77	0.0344	0.3128	0.2628	1.8800e-003		0.0238	0.0238		0.0238	0.0238		375.3852	375.3852	7.1900e-003	6.8800e-003	377.6159
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0381</b>	<b>0.3467</b>	<b>0.2912</b>	<b>2.0800e-003</b>		<b>0.0263</b>	<b>0.0263</b>		<b>0.0263</b>	<b>0.0263</b>		<b>415.9782</b>	<b>415.9782</b>	<b>7.9700e-003</b>	<b>7.6200e-003</b>	<b>418.4502</b>

#### Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Fast Food Restaurant w/o Drive Thru	0.331103	3.5700e-003	0.0325	0.0273	1.9000e-004		2.4700e-003	2.4700e-003		2.4700e-003	2.4700e-003		38.9533	38.9533	7.5000e-004	7.1000e-004	39.1848
Medical Office Building	2.67668	0.0289	0.2624	0.2204	1.5700e-003		0.0199	0.0199		0.0199	0.0199		314.9041	314.9041	6.0400e-003	5.7700e-003	316.7754
Parking Lot	0	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000		0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000
<b>Total</b>		<b>0.0324</b>	<b>0.2949</b>	<b>0.2477</b>	<b>1.7600e-003</b>		<b>0.0224</b>	<b>0.0224</b>		<b>0.0224</b>	<b>0.0224</b>		<b>353.8574</b>	<b>353.8574</b>	<b>6.7900e-003</b>	<b>6.4800e-003</b>	<b>355.9602</b>

1050 Parker Street - Alameda County, Winter

## 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	1.5272	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698
Unmitigated	1.5272	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698



1050 Parker Street - Alameda 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	0.1852					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3391					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.8600e-003	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698
<b>Total</b>	<b>1.5272</b>	<b>2.8000e-004</b>	<b>0.0307</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>0.0654</b>	<b>0.0654</b>	<b>1.7000e-004</b>		<b>0.0698</b>

**Mitigated**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1852					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	1.3391					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	2.8600e-003	2.8000e-004	0.0307	0.0000		1.1000e-004	1.1000e-004		1.1000e-004	1.1000e-004		0.0654	0.0654	1.7000e-004		0.0698
<b>Total</b>	<b>1.5272</b>	<b>2.8000e-004</b>	<b>0.0307</b>	<b>0.0000</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>1.1000e-004</b>	<b>1.1000e-004</b>		<b>0.0654</b>	<b>0.0654</b>	<b>1.7000e-004</b>		<b>0.0698</b>

**7.0 Water Detail**

1050 Parker Street - Alameda County, Winter

**7.1 Mitigation Measures Water****8.0 Waste Detail****8.1 Mitigation Measures Waste**

Institute Recycling and Composting Services

**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**

**Greenhouse Gas Emission Worksheet**

**N<sub>2</sub>O Mobile Emissions**

Parker Carleton - Berkeley, CA

From CalEEMod v.2016.3.1 Vehicle Fleet Mix Output:

Annual VMT: **1,615,285**

Vehicle Type	Percent Type	CH <sub>4</sub> Emission Factor (g/mile)*	CH <sub>4</sub> Emissions (g/mile)**	N <sub>2</sub> O Emission Factor (g/mile)*	N <sub>2</sub> O Emissions (g/mile)**
Light Auto	55.9%	0.04	0.022372	0.04	0.022372
Light Truck < 3750 lbs	4.0%	0.05	0.0020029	0.06	0.00240348
Light Truck 3751-5750 lbs	19.1%	0.05	0.00952745	0.06	0.01143294
Med Truck 5751-8500 lbs	10.9%	0.12	0.0131202	0.2	0.021867
Lite-Heavy Truck 8501-10,000 lbs	1.7%	0.12	0.00200136	0.2	0.0033356
Lite-Heavy Truck 10,001-14,000 lbs	0.5%	0.09	0.00046917	0.125	0.000651625
Med-Heavy Truck 14,001-33,000 lbs	2.3%	0.06	0.00140064	0.05	0.0011672
Heavy-Heavy Truck 33,001-60,000 lbs	4.4%	0.06	0.00264252	0.05	0.0022021
Other Bus	0.2%	0.06	0.00012912	0.05	0.0001076
Urban Bus	0.3%	0.06	0.00016014	0.05	0.00013345
Motorcycle	0.6%	0.09	0.00049905	0.01	0.00005545
School Bus	0.0%	0.06	0.000018	0.05	0.000015
Motor Home	0.1%	0.09	0.000063	0.125	0.0000875
<b>Total</b>	<b>100.0%</b>		<b>0.05440555</b>		<b>0.065830945</b>

**Total Emissions (metric tons) =**  
**Emission Factor by Vehicle Mix (g/mi) x Annual VMT(mi) x 0.000001 metric tons/g**

**Conversion to Carbon Dioxide Equivalency (CO<sub>2</sub>e) Units based on Global Warming Potential (GWP)**

CH<sub>4</sub> 21 GWP  
 N<sub>2</sub>O 310 GWP  
 1 ton (short, US) = 0.90718474 metric ton

**Annual Mobile Emissions:**

	Total Emissions	Total CO <sub>2</sub> e units
N <sub>2</sub> O Emissions:	0.1063 metric tons N <sub>2</sub> O	32.96 metric tons CO <sub>2</sub> e
<b>Project Total:</b>		<b>32.96 metric tons CO<sub>2</sub>e</b>

**References**

- \* from Table C.4: Methane and Nitrous Oxide Emission Factors for Mobile Sources by Vehicle and Fuel Type (g/mile). in California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009. Assume Model year 2000-present, gasoline fueled.
- \*\* Source: California Climate Action Registry General Reporting Protocol, Reporting Entity-Wide Greenhouse Gas Emissions, Version 3.1, January 2009.
- \*\*\* CalEEMod v.2016.3.1 results for mobile sources.